FINAL

Remedial Investigation Report

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Volume 3 - Appendices

Remedial Investigation Burgess Brothers Superfund Site Woodford and Bennington Vermont

Burgess Brothers Steering Committee

July 1996

O'BRIEN & GERE
ENGINEERS, INC.

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VOLUME III

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Remedial Investigation
Burgess Brothers Superfund Site
Woodford and Bennington, Vermont

DRAFT - Remedial Investigation Report

VOLUME 3 - APPENDICES

11 Seismic Survey Report
12 EM Survey Report
13 Soil Vapor Survey Calibration Calculation
14 Test Pit Logs
15 Analytical Results
16 Drilling Objectives, Procedures and Modifications
17 UV Screening Procedure
18 Geology Background Information
19 Well Development Logs
20 Ground Water Sampling Logs
21 Meteorological Data
22 H&A Report on Geotechnical Analyses
23 GEI Consultants Report on Geotechnical Analyses
24 Well Purging Area
25 Surface Water & Sediment Sampling Field Logs
26 Leachate Sampling Field Logs
27 Sampling Pump Data
28 ARARs

Appendix 11

HAGER-RICHTER
GEOSCIENCE, INC.

SEISMIC REFRACTION SURVEY
BURGESS BROS. LANDFILL
SUPERFUND SITE
WOODFORD &
BENNINGTON, VERMONT

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File 91D44A
July, 1993

Seismic Refraction Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44A July, 1993

0. EXECUTIVE SUMMARY

Hager-Richter Geoscience, Inc. conducted a seismic refraction survey at the Burgess Bros. Landfill Superfund Site in Bennington and Woodford, Vermont for O'Brien & Gere Engineers, Inc. in September, 1992. The geophysical survey is part of an RI/FS of the Site by O'B&G.

The Burgess Bros. Landfill Superfund Site is a former sanitary landfill located in a hilly rural area. The objectives of the geophysical survey were to determine the depths of water table, till, and bedrock in the vicinity of the landfill. Information available prior to the survey indicated that bedrock occurred at depths between 25 and 70 feet. The depth of bedrock could not be determined on the basis of a previous GPR survey.

Seismic refraction data were collected along four segmented lines totalling 2070 feet and located on all sides of the landfill. The results of the seismic refraction survey at the Burgess Bros. Landfill are as follows:

1. Depths of water table at the time of survey were between about 3 and 17 feet below ground surface (elevations between 1137 and 1073 feet). The water table was located within unconsolidated sediments, probably the kame sands described in boring logs.

2. Till of unknown thickness occurs at depths between 14 and 36 feet below ground surface (elevations between 1128 and 1051 feet).

3. The transition from till to deeply weathered bedrock, known from borings to occur at depths between about 45 and 90 feet at the Site, could not be determined because of the lack of contrast in seismic velocity between the two materials.

4. Velocities typical of *competent* bedrock were not detected in this survey. Based on the configuration of the seismic lines and offset shotpoints, the seismic data indicate that the depth of *competent* bedrock is at least 170 feet at the Site.

Seismic Refraction Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44A July, 1993

TABLE OF CONTENTS

0.	Executive Summary		i
1.	Introduction		1
2.	Equipment and Procedures		2
	2.1	General	2
	2.2	Limitations of the Method	3
	2.3	Site Specific	4
3.	Results and Discussion		5
	3.1	General	5
	3.2	Data Quality	5
	3.3	Interpretation of Velocities	5
	3.4	Stratigraphy	6
4.	Conclusions		7

TABLE

1. Seismic Refraction Results

FIGURES

1. Site location
2. Seismic Line A
3. Seismic Line B1
4. Seismic Line B2
5. Seismic Line C
6. Seismic Line D

PLATE

1. Site Plan

Seismic Refraction Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44A July, 1993

1. INTRODUCTION

Hager-Richter Geoscience, Inc. conducted a geophysical survey at the Burgess Bros. Landfill Superfund Site, Woodford and Bennington, Vermont for O'Brien & Gere Engineers, Inc. (O'B&G) of Quincy, Massachusetts in September, 1992. The geophysical survey is part of a Remedial Investigation/Feasibility Study of the Site by O'B&G for the Burgess Brothers Superfund Site Steering Committee.

The Burgess Bros. Landfill is a 60-acre property located in a hilly rural area straddling the town line between the Towns of Woodford and Bennington. Figure 1 shows the general location of the Site. The landfill itself is located on the west flank of Harmon Hill. The landfill is currently a relatively level, graded area of about one acre. Thickly wooded hilly areas occur to the north and west, and a steep slope down to a marshy area is present to the south and east of the graded area.

The objective of the seismic refraction survey was to provide information about the subsurface conditions at the Site. In particular, O'B&G was interested in obtaining information about the depth of water table, till, and bedrock. Information provided to H-R prior to the seismic refraction survey indicated that bedrock was expected to be at depths of 25 to 70 feet, based on water well records and technical literature. The results of a ground penetrating radar survey conducted by Hager-Richter in January, 1992[1], indicated that the top of till was located at approximate depths of 20 to >45 feet, but the depth of bedrock could not be determined.

Hager-Richter personnel were on Site September 16-18, 1992. The weather conditions were clear and cool. Jeffrey Reid and Roger Yang conducted the field operations. The field work was coordinated with Mr. Richard G. Stromberg of O'B&G. Mr. Mark Randazzo of O'B&G observed the field operations. Mr. Daniel Berler of Metcalf & Eddy, Inc. observed a portion of the field operations on September 16 as an oversight representative of the USEPA under the ARCS program. All work was conducted under Level D personal protection. Data analysis and interpretation were completed at the Hager-Richter offices. Original data and field notes reside in the Hager-Richter files and will be retained for a minimum of three years.

[1] "Ground Penetrating Radar Survey, Burgess Brothers Landfill Site, Woodford and Bennington, Vermont," H-R report dated January, 1992.

A preliminary interpretation of the seismic refraction data was submitted to O'Brien & Gere on October 2, 1992, but the submission of this final report was delayed in order to incorporate the results of borings installed after the seismic field work. The seismic refraction data were reinterpreted for this report.

2. EQUIPMENT AND PROCEDURES

2.1 General

2.1.1 Field Work. We used a 24-channel Bison Model 9024 Digital Instantaneous Floating Point Stacking Seismograph to perform the seismic refraction survey. The Model 9024 is a "state of the art" microprocessor controlled instrument that records data digitally and on paper seismograms. The stored data were transferred to floppy disk and the hard disk of a laptop computer at the end of each field day.

The seismograph was coupled to two 12-element seismic spread cables for a total of 24 geophones. A geophone spacing sufficient to record arrivals from bedrock was selected.

Seismic energy was provided by a 12-lb sledge hammer striking a steel base plate or a Betsy seisgun. The Betsy seisgun uses a shotgun blank as the seismic source and is not classified as a weapon or explosive under Federal regulations. The number of stacks per shot point is variable, and the quality of the stacked seismic signal for each shot point was verified in the field with the paper record. Five shot points were used for each 24-geophone spread -- one shot off each end of the cable, one shot at each end of the cable, and one at the twelfth geophone. This configuration provides reversed profiles. Shot points (and geophone locations, if necessary) were flagged in the field.

2.1.2 Data Analysis and Interpretation. The seismic data were analyzed using the Generalized Reciprocal Method (GRM) of seismic refraction interpretation. GRM has several advantages over other seismic refraction interpretation methods such as the Time-Intercept or Crossover-Distance methods. GRM allows for some variation in the surface topography as well as lateral variation in the seismic velocity of the upper layers. The method uses a principle of migration whereby the refractor need only be planar over a short distance, thus allowing the calculation of depth to an undulating interface. In addition,

GRM is relatively insensitive to dip angles as high as 20°, unlike most other methods that can be sensitive to dips as low as 5°. GRM also allows for the calculation of depth below each geophone instead of below only the shot points as in the Time-Intercept and Crossover Distance methods. The GRM program that we use for data analysis contains several internal tests for data consistency.

The results are used to construct an interpreted velocity profile of the subsurface for each seismic line. The velocities of seismic waves are functions of the types of geologic material through which they pass. One can thus infer the general subsurface stratigraphy from the velocities exhibited. Seismic velocities are expressed in feet per second (fps).

A widespread misconception about the seismic refraction method is that one cannot detect layers of lower velocity material underlying higher velocity material, a common situation in stratified sediments. If present and undetected, the lower velocity layers can cause large errors in the thickness calculated for the various layers. However, the GRM technique provides for the detection of such low velocity layers and, more importantly, provides correct depths to refracting horizons below any low velocity layers that may be present. The elevation, thickness, and velocity of the hidden layer itself cannot be determined. Typical uncertainties in depths determined seismically are 15% or 2 feet, whichever is larger.

2.2 Limitations of the Method

Like all geophysical methods, the seismic refraction method is based on the assumption that the local geology is uncomplicated. In particular, the seismic refraction method assumes that interfaces between geologic materials correlate with sharp increases in seismic velocity and that the interfaces are relatively flat-lying. The method is not very sensitive to lateral variations within layers, and relatively subtle features such as fracture zones within bedrock are generally difficult to detect unless there is a topographic expression of the feature. The accuracy of the method is degraded in areas with strong topographic relief and/or where the interfaces have apparent dips greater than about 20°.

Where two materials do not exhibit contrasting velocities, or where velocities gradually increase with depth, a clear refracted signal is not generated, and the seismic refraction method cannot be used to distinguish the two materials. In some cases, the "geophysical contact" between materials with contrasting velocities does not correlate exactly with the "geologic contact." For example, where a highly weathered bedrock is overlain by a dense material such as till, the velocity range of the weathered bedrock might overlap or

approach the velocity range of the till, and the two materials cannot be distinguished seismically. In such cases, the depth determined by seismic refraction is the depth of *competent* bedrock, which might be located at some depth below the geologic contact.

The depth relations of the water table and bedrock may constitute a significant problem for the seismic refraction technique. This problem is that of a "blind layer." A blind layer occurs where the thickness of the saturated overburden is less than about half the depth of bedrock. In such cases, the water-saturated material immediately above bedrock is "blind" in the sense that no refracted seismic energy from it will be received as a first arrival of seismic energy, and all methods used to reduce the seismic data to determine the depth of bedrock, the objective of this survey, use *only* first arrivals. Thus, the saturated layer will not be detected where it is close to bedrock, and most methods of seismic data reduction will indicate that bedrock is considerably deeper than it actually is. Although GRM, the method used by Hager-Richter to reduce the seismic refraction data, does not use first arrivals through the water saturated zone (because there is none to use) in such cases, GRM determines the depth of bedrock correctly by using the *average* velocity of the saturated and unsaturated zones.

A "hidden layer" occurs where a lower velocity material underlies a higher velocity material, a common situation in stratified sediments. An example is where sands are present under layers of clay or till. As in the case of a "blind layer," most methods of seismic refraction data reduction will indicate that bedrock is considerably deeper than it actually is, if a hidden layer is present but not detected. Internal tests in the seismic refraction data reduction software that we use (GREMIX by Interpex) indicate that such layers might be present, and an average velocity of the two layers is used to determine the depth of bedrock.

2.3 Site Specific

O'B&G specified the general location of the seismic refraction lines. The locations of some of the seismic refraction lines were modified in the field with the concurrence of the O'B&G and Metcalf & Eddy site representatives. The seismic refraction survey consisted of four lines: Seismic Line A, located along the access road on the north side of the landfill; Seismic Line B, located along an unnamed stream to the east of the landfill; Seismic Line C, located in the marshy area south of the landfill; and Seismic Line D, located along the stone wall to the west of the Landfill. Seismic Line A consisted of three contiguous segments, designated A1-A3, that are oriented in differing directions. Seismic Line B consisted of two discontinuous segments, designated B1 and B2, because site conditions did not permit continuous access along the line. The locations of the seismic lines are shown

on Plate 1.

Seismic spread cables with a 10-foot geophone spacing were used. At the direction of the O'B&G site representative, the seismic source was a 12-lb hammer striking a steel base plate. Five shot points were used per 24-channel spread. Shot points were located at the first, 13th, and 24th geophones. Symmetrical offset shots of up to 460 feet were made from the ends of each spread to attempt to obtain bedrock arrivals. The locations of seismic lines and offset shot points were staked in the field for later survey of elevations by O'B&G.

3. RESULTS AND DISCUSSION

3.1 General

The seismic refraction survey at the Burgess Bros. Landfill consisted of four lines for a total of 2070 feet. The locations of the seismic lines are shown on Plate 1. The results are shown in profile form in Figures 2 - 6 and are tabulated in Table 1.

3.2 Data Quality

The quality of the unprocessed seismic refraction data for most of the seismic refraction lines at the Site is good in the sense that first arrivals of compressional waves are relatively easy to "pick" on the seismograms. Since the Site is located in a rural area, the Site is relatively "quiet" from a seismic noise perspective.

3.3 Interpretation of Velocities

Materials with three distinct velocity ranges are present at the Burgess Bros. Landfill. The upper material has a velocity range of 1050-1350 fps. Such a velocity range represents a layer consisting of unsaturated sediments. The intermediate layer has a velocity range of 4600-5100 fps, and is interpreted to consist of saturated sediments. Both the unsaturated and saturated sediments are likely the kame sands and gravels described in logs for borings installed after the seismic refraction survey. Materials with a velocity range of 7200-8700 fps are interpreted to consist of dense till, a material also described in the logs for borings installed after the seismic refraction survey.

Bedrock at the Site is described as Cheshire Quartzite. Competent quartzites have velocities well over 12,000 fps. No such velocities were determined at the Burgess Bros. Landfill Superfund Site. Where the top of bedrock is highly fractured and/or deeply weathered, it can, exhibit significantly lower velocities, and logs for borings installed at the Burgess Bros. Landfill Superfund Site after the seismic refraction survey include descriptions of soft, deeply weathered schist (foliated clay, silt, minor sand) and "quartz arenite" (sand). The seismic velocities of soft, deeply weathered rock can overlap those of dense till, and where both are present, refracted seismic signals from deeply weathered bedrock commonly cannot be distinguished as a distinct layer. Thus, the transition from till to deeply weathered bedrock might occur within the layer with velocities of 7200-8700 fps.

3.4 Stratigraphy

For all seismic lines at the Burgess Bros. Landfill, only three velocity layers can be distinguished on the basis of the seismic data -- unsaturated sediments, saturated sediments, and till. Water table at the time of survey was located within the unconsolidated sediments at depths between 3 and 17 feet below ground surface (elevations between 1137 and 1073 feet).

Till occurs at depths between 14 and 36 feet below ground surface (elevations between 1128 and 1051 feet). These depths correlate well with the logs for borings at the Site. Average velocities of the unsaturated and saturated sediments were used to determine the depth of till in order to avoid errors caused by a "blind" water table layer. The top of till is gently undulating and does not follow the surface topography closely.

The thickness of the till, i.e., the transition to deeply weathered bedrock, could not be determined on the basis of the seismic refraction data because of the lack of contrast in seismic velocity of the two materials. Logs for borings installed after the seismic refraction survey indicate that the transition to soft, deeply weathered rock occurs at depths between about 45 and 90 feet.

As discussed above, velocities of *competent* bedrock were not detected on any of the seismic lines at the Burgess Bros. Landfill Superfund Site. Based on the layers detected and the offset shot information, the seismic data indicate that *competent* bedrock must be greater than about 170 feet below ground surface at the Burgess Bros. Landfill Superfund Site. Competent bedrock was actually encountered in boirngs at the Site at depths between 300 and >400 feet. Such depths are far greater than the 20 to 70-foot depths for which the present seismic refraction survey was designed and budgeted.

4. CONCLUSIONS

On the basis of the seismic refraction survey at the Burgess Bros. Landfill Superfund Site, we conclude:

1. Depths of water table at the time of survey were between about 3 and 17 feet below ground surface (elevations between 1137 and 1073 feet). The water table was located within unconsolidated sediments, probably the kame sands described in boring logs.

2. Till of unknown thickness occurs at depths between 14 and 36 feet below ground surface (elevations between 1128 and 1051 feet).

3. The transition from till to deeply weathered bedrock, known from borings to occur at depths between about 45 and 90 feet at the Site, could not be determined because of the lack of contrast in seismic velocity between the two materials.

4. Velocities typical of ***competent*** bedrock were not detected in this survey. Based on the configuration of the seismic lines and offset shotpoints, the seismic data indicate that the depth of ***competent*** bedrock is at least 170 feet at the Site.

HAGER-RICHTER
GEOSCIENCE, INC.

TABLE 1 - SEISMIC REFRACTION RESULTS

GEOPHONE LOCATION	SURFACE ELEVATION (feet)	WATER TABLE DEPTH (feet)	WATER TABLE ELEVATION (feet)	TILL DEPTH (feet)	TILL ELEVATION (feet)
SEISMIC LINE A1					
0+00	1114	10	1104	23	1091
0+10	1114	10	1104	23	1091
0+20	1114	10	1104	24	1090
0+30	1115	10	1105	25	1090
0+40	1115	11	1104	26	1089
0+50	1115	11	1104	27	1088
0+60	1115	12	1103	27	1088
0+70	1115	12	1103	27	1088
0+80	1115	12	1103	26	1089
0+90	1116	12	1104	27	1089
1+00	1116	13	1103	27	1089
1+10	1116	12	1104	27	1089
1+20	1116	13	1103	26	1090
1+30	1117	14	1103	27	1090
1+40	1117	14	1103	28	1089
1+50	1117	15	1102	28	1089
1+60	1117	15	1102	29	1088
1+70	1118	16	1102	29	1089
1+80	1118	15	1103	29	1089
1+90	1118	15	1103	29	1089
2+00	1118	15	1103	29	1089
2+10	1119	17	1102	30	1089
2+20	1119	17	1102	29	1090
2+30	1119	16	1103	27	1092
SEISMIC LINE A2					
2+30	1119	16	1103	27	1092
2+40	1119	15	1104	25	1094
2+50	1120	15	1105	24	1096
2+60	1120	14	1106	22	1098
2+70	1121	14	1107	19	1102
2+80	1121	13	1108	17	1104
2+90	1122	12	1110	15	1107
3+00	1122	12	1110	15	1107
3+10	1123	12	1111	14	1109
3+20	1123	11	1112	14	1109
3+30	1124	12	1112	14	1110
3+40	1124	11	1113	15	1109
3+50	1125	11	1114	16	1109
3+60	1125	11	1114	18	1107

Surface elevations were provided by O'Brien & Gere. Estimated accuracy of depth of interfaces is ± 15% or 2 feet, whichever is greater.

TABLE 1 - SEISMIC REFRACTION RESULTS

GEOPHONE LOCATION	SURFACE ELEVATION (feet)	WATER TABLE DEPTH (feet)	WATER TABLE ELEVATION (feet)	TILL DEPTH (feet)	TILL ELEVATION (feet)
SEISMIC LINE A2 (cont.)					
3+70	1126	11	1115	20	1106
3+80	1127	12	1115	22	1105
3+90	1127	11	1116	22	1105
4+00	1128	12	1116	23	1105
4+10	1129	12	1117	24	1105
4+20	1129	13	1116	25	1104
4+30	1130	13	1117	27	1103
4+40	1131	13	1118	26	1105
4+50	1132	14	1118	26	1106
4+60	1132	14	1118	25	1107
SEISMIC LINE A3					
4+60	1132	14	1118	25	1107
4+70	1133	15	1118	24	1109
4+80	1133	13	1120	24	1109
4+90	1134	13	1121	25	1109
5+00	1135	12	1123	24	1111
5+10	1136	13	1123	24	1112
5+20	1136	11	1125	24	1112
5+30	1137	11	1126	24	1113
5+40	1138	10	1128	23	1115
5+50	1139	10	1129	25	1114
5+60	1139	10	1129	26	1113
5+70	1140	10	1130	28	1112
5+80	1141	10	1131	28	1113
5+90	1142	11	1131	30	1112
6+00	1143	11	1132	27	1116
6+10	1144	11	1133	28	1116
6+20	1145	12	1133	28	1117
6+30	1146	12	1134	28	1118
6+40	1146	11	1135	28	1118
6+50	1147	12	1135	27	1120
6+60	1148	12	1136	27	1121
6+70	1149	13	1136	25	1124
6+80	1150	13	1137	24	1126
6+90	1151	14	1137	23	1128

Surface elevations were provided by O'Brien & Gere. Estimated accuracy of depth of interfaces is ± 15% or 2 feet, whichever is greater.

TABLE 1 - SEISMIC REFRACTION RESULTS

GEOPHONE LOCATION	SURFACE ELEVATION (feet)	WATER TABLE DEPTH (feet)	WATER TABLE ELEVATION (feet)	TILL DEPTH (feet)	TILL ELEVATION (feet)
SEISMIC LINE B1					
0+00	1148	12	1136	21	1127
0+10	1147	12	1135	21	1126
0+20	1146	12	1134	21	1125
0+30	1145	12	1133	20	1125
0+40	1144	12	1132	18	1126
0+50	1143	12	1131	18	1125
0+60	1142	11	1131	18	1124
0+70	1140	10	1130	17	1123
0+80	1139	10	1129	16	1123
0+90	1138	10	1128	15	1123
1+00	1137	10	1127	15	1122
1+10	1136	12	1124	14	1122
1+20	1135	11	1124	16	1119
1+30	1134	10	1124	16	1118
1+40	1133	10	1123	16	1117
1+50	1132	10	1122	14	1118
1+60	1131	10	1121	14	1117
1+70	1131	9	1122	15	1116
1+80	1130	9	1121	16	1114
1+90	1129	9	1120	16	1113
2+00	1128	9	1119	17	1111
2+10	1127	8	1119	17	1110
2+20	1126	8	1118	17	1109
2+30	1125	8	1117	17	1108
SEISMIC LINE B2					
0+00	1088	4	1084	17	1071
0+10	1087	3	1084	17	1070
0+20	1087	4	1083	17	1070
0+30	1086	4	1082	17	1069
0+40	1086	4	1082	19	1067
0+50	1085	4	1081	18	1067
0+60	1085	4	1081	18	1067
0+70	1084	4	1080	17	1067
0+80	1084	4	1080	16	1068
0+90	1083	4	1079	15	1068
1+00	1083	4	1079	17	1066
1+10	1082	4	1078	19	1063
1+20	1082	4	1078	20	1062
1+30	1082	4	1078	21	1061

Surface elevations were provided by O'Brien & Gere. Estimated accuracy of depth of interfaces is ± 15% or 2 feet, whichever is greater.

TABLE 1 - SEISMIC REFRACTION RESULTS

GEOPHONE LOCATION	SURFACE ELEVATION (feet)	WATER TABLE DEPTH (feet)	WATER TABLE ELEVATION (feet)	TILL DEPTH (feet)	TILL ELEVATION (feet)
SEISMIC L'NE B2 (cont.)					
1+40	1082	5	1077	21	1061
1+50	1081	5	1076	23	1058
1+60	1081	5	1076	25	1056
1+70	1081	5	1076	27	1054
1+80	1081	4	1077	26	1055
1+90	1081	4	1077	24	1057
2+00	1081	3	1078	25	1056
2+10	1080	3	1077	25	1055
2+20	1080	3	1077	26	1054
2+30	1080	3	1077	27	1053
SEISMIC LINE C					
0+00	1080	6	1074	16	1064
0+10	1081	6	1075	16	1065
0+20	1081	6	1075	16	1065
0+30	1082	6	1076	15	1067
0+40	1082	6	1076	17	1065
0+50	1083	6	1077	18	1065
0+60	1083	6	1077	19	1064
0+70	1084	6	1078	17	1067
0+80	1084	5	1079	16	1068
0+90	1081	5	1076	14	1067
1+00	1077	4	1073	14	1063
1+10	1077	4	1073	15	1062
1+20	1077	4	1073	15	1062
1+30	1077	4	1073	17	1060
1+40	1077	4	1073	16	1061
1+50	1077	3	1074	16	1061
1+60	1077	3	1074	16	1061
1+70	1077	3	1074	19	1058
1+80	1077	3	1074	23	1054
1+90	1077	3	1074	25	1052
2+00	1077	3	1074	24	1053
2+10	1077	3	1074	26	1051
2+20	1077	3	1074	26	1051
2+30	1077	3	1074	26	1051

Surface elevations were provided by O'Brien & Gere. Estimated accuracy of depth of interfaces is ± 15% or 2 feet, whichever is greater.

TABLE 1 - SEISMIC REFRACTION RESULTS

GEOPHONE LOCATION	SURFACE ELEVATION (feet)	WATER TABLE DEPTH (feet)	WATER TABLE ELEVATION (feet)	TILL DEPTH (feet)	TILL ELEVATION (feet)
SEISMIC LINE D					
0+00	1115	8	1107	18	1097
0+10	1115	9	1106	18	1097
0+20	1114	8	1106	17	1097
0+30	1114	8	1106	17	1097
0+40	1114	9	1105	16	1098
0+50	1114	9	1105	17	1097
0+60	1113	8	1105	17	1096
0+70	1113	8	1105	19	1094
0+80	1113	9	1104	21	1092
0+90	1113	9	1104	22	1091
1+00	1112	8	1104	25	1087
1+10	1112	8	1104	23	1089
1+20	1112	8	1104	27	1085
1+30	1111	8	1103	26	1085
1+40	1111	8	1103	27	1084
1+50	1111	8	1103	27	1084
1+60	1110	8	1102	28	1082
1+70	1110	8	1102	27	1083
1+80	1110	8	1102	28	1082
1+90	1109	8	1101	26	1083
2+00	1109	8	1101	28	1081
2+10	1109	8	1101	27	1082
2+20	1108	8	1100	26	1082
2+30	1108	9	1099	25	1083
2+40	1108	7	1101	24	1084
2+50	1109	8	1101	24	1085
2+60	1109	8	1101	24	1085
2+70	1110	9	1101	25	1085
2+80	1110	9	1101	25	1085
2+90	1111	10	1101	27	1084
3+00	1111	10	1101	29	1082
3+10	1112	10	1102	28	1084
3+20	1112	11	1101	29	1083
3+30	1113	11	1102	30	1083
3+40	1113	11	1102	33	1080
3+50	1113	12	1101	32	1081
3+60	1112	12	1100	31	1081
3+70	1112	12	1100	30	1082
3+80	1111	12	1099	31	1080
3+90	1111	13	1098	33	1078
4+00	1111	13	1098	32	1079

Surface elevations were provided by O'Brien & Gere. Estimated accuracy of depth of interfaces is ± 15% or 2 feet, whichever is greater.

TABLE 1 - SEISMIC REFRACTION RESULTS

GEOPHONE LOCATION	SURFACE ELEVATION (feet)	WATER TABLE DEPTH (feet)	WATER TABLE ELEVATION (feet)	TILL DEPTH (feet)	TILL ELEVATION (feet)
SEISMIC LINE D (cont.)					
4+10	1110	13	1097	33	1077
4+20	1110	13	1097	33	1077
4+30	1109	13	1096	34	1075
4+40	1109	14	1095	34	1075
4+50	1108	14	1094	34	1074
4+60	1108	14	1094	35	1073
4+70	1107	14	1093	36	1071
4+80	1106	14	1092	36	1070
4+90	1105	14	1091	35	1070
5+00	1103	13	1090	34	1069
5+10	1102	13	1089	33	1069
5+20	1101	12	1089	31	1070
5+30	1100	12	1088	29	1071
5+40	1099	12	1087	27	1072
5+50	1098	12	1086	25	1073
5+60	1097	12	1085	25	1072
5+70	1096	12	1084	22	1074
5+80	1094	11	1083	21	1073
5+90	1093	11	1082	18	1075
6+00	1092	10	1082	15	1077
6+10	1091	9	1082	14	1077
6+20	1090	10	1080	14	1076
6+30	1089	10	1079	15	1074
6+40	1088	9	1079	15	1073
6+50	1087	10	1077	16	1071
6+60	1085	9	1076	15	1070
6+70	1084	8	1076	15	1069
6+80	1083	9	1074	15	1068
6+90	1082	8	1074	15	1067

Surface elevations were provided by O'Brien & Gere. Estimated accuracy of depth of interfaces is ± 15% or 2 feet, whichever is greater.

Seismic Refraction Survey
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Woodford & Bennington, Vermont
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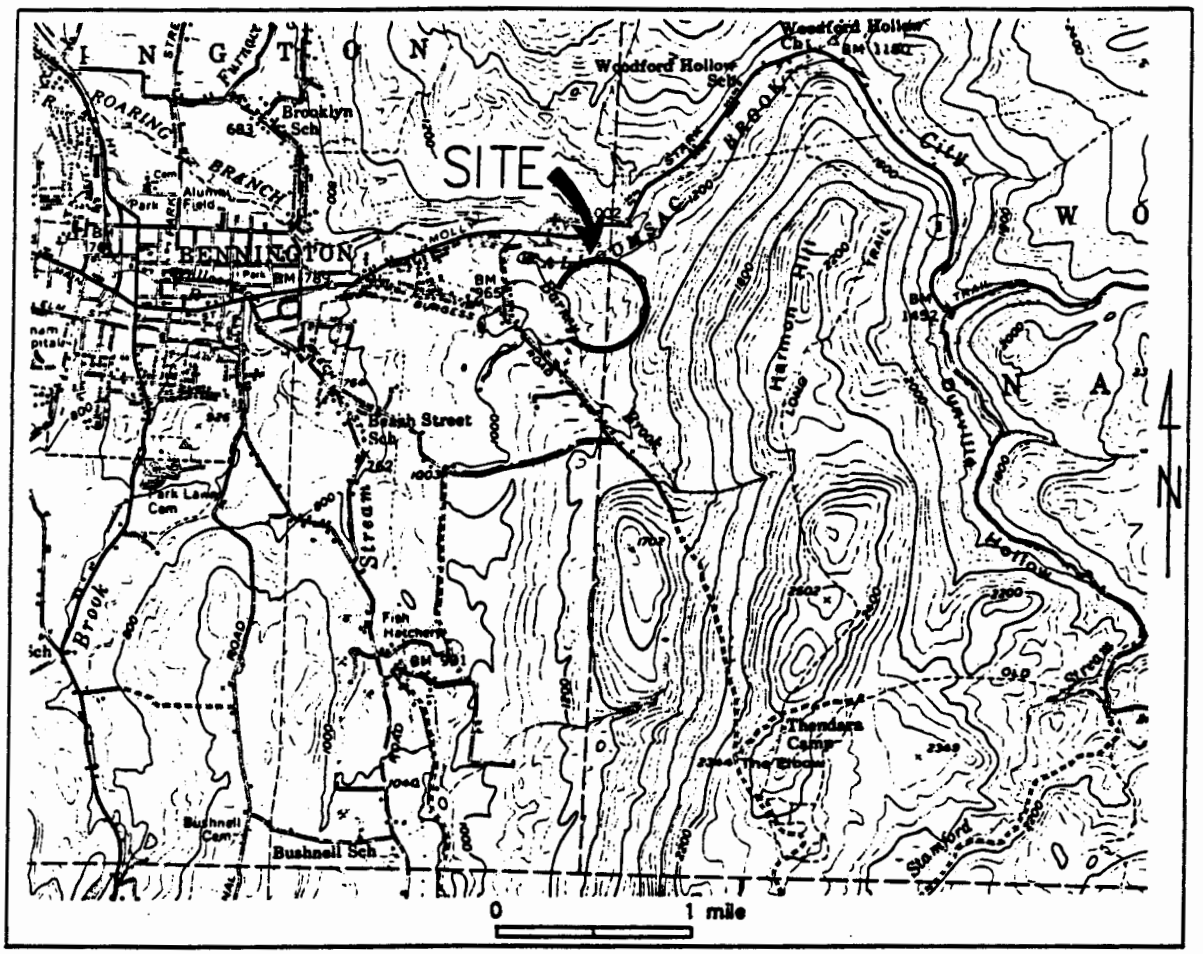
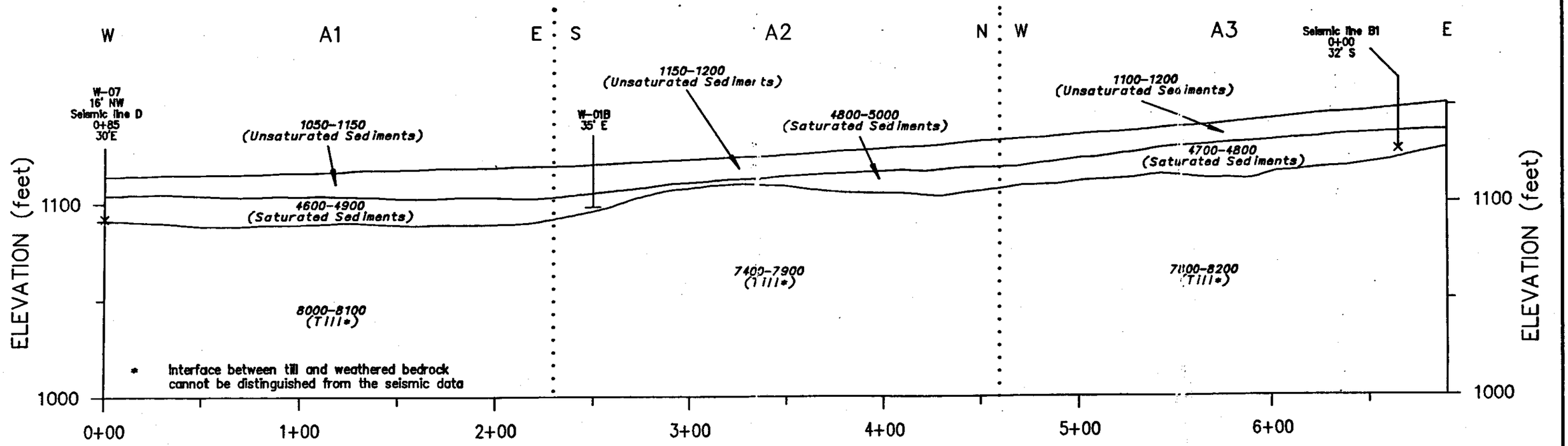


Figure 1. Site location. Base map Bennington 15-minute USGS topographic quadrangle.



LEGEND

2800 — Velocity (fps); Interface determined from seismic refraction data

W-07 — Boring with depth of till

Seismic Line 1 0+00 — Intersecting Seismic Line with depth of till

SCALE (feet)

0 50 100

Figure 2
Seismic Line A
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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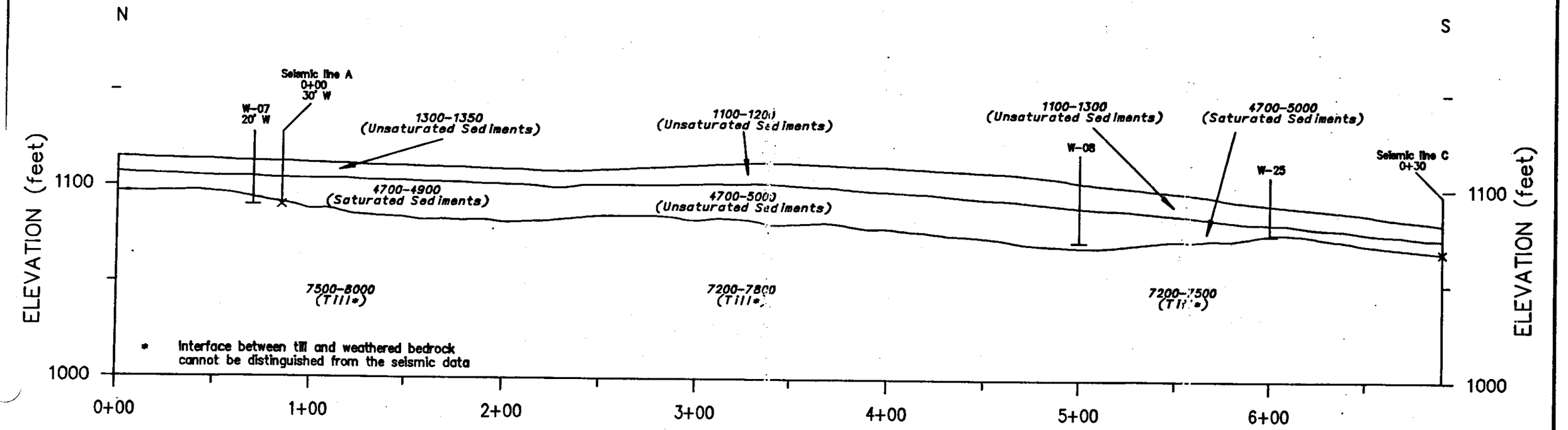

LEGEND

2800 — Velocity (fps)

Interface determined from seismic refraction data

W-07 — Boring with depth of till

Seismic Line 1 0+00 — Intersecting Seismic Line with depth of till

SCALE (feet)

0 50 100

Figure 6
Seismic Line D
Burgess Bros. Landfill Superfund Site
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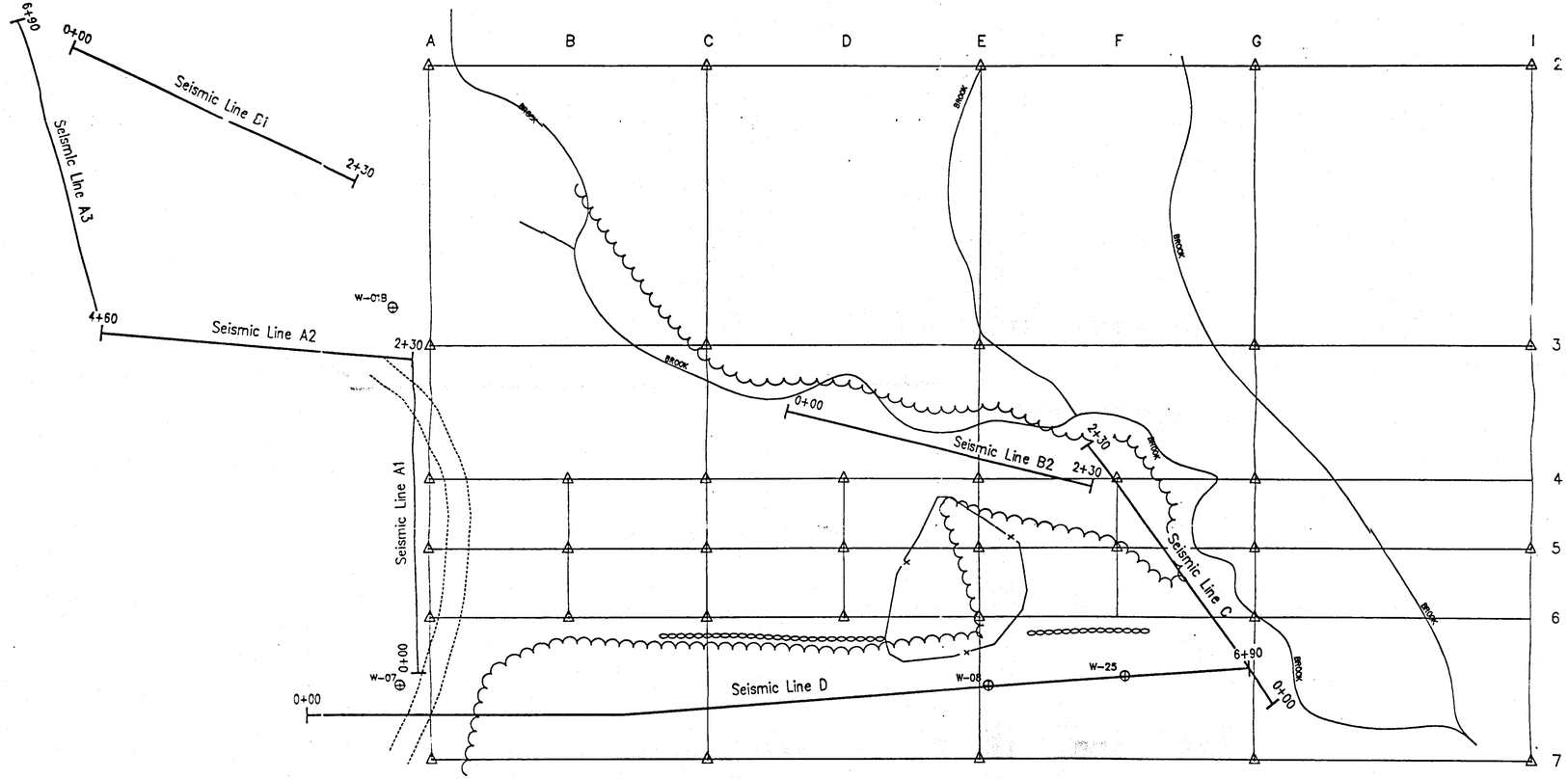

GRAPHIC SCALE
(IN FEET)
0 50 100 200
1 inch = 50 ft.

LEGEND

- SEISMIC LINE
- PROPERTY LINE
- STONE WALL
- FENCE
- EDGE OF WOODLANDS
- BROOK
- ⊕ WELL
- △ GRID LOCATION STAKED BY O'BRIEN & GERE

Baseplan provided by: O'Brien & Gere

Plate 1
Site Plan
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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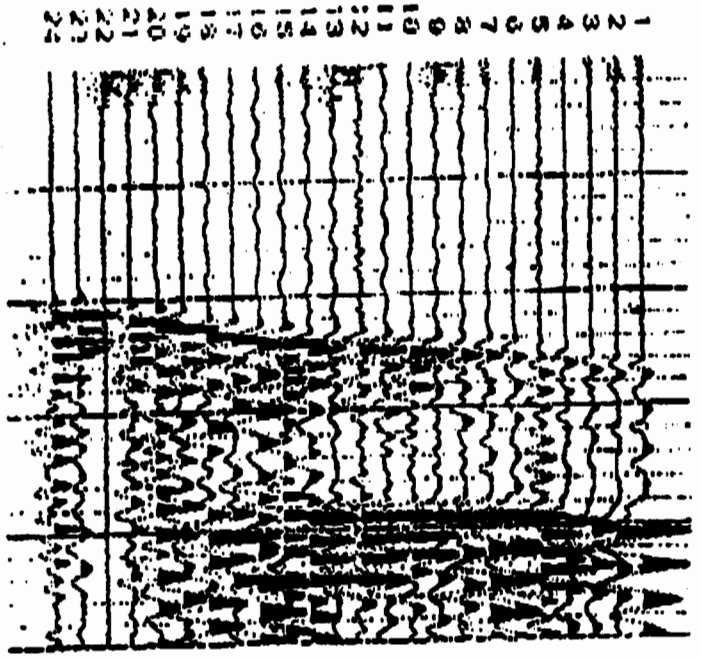
RAW SEISMOGRAM



BISON 9000 SERIES

Record Name: BENN0047

Date	09:18:92	Time	10:20
Hi-cut	2000	Lo-cut	4
Sample rt	200ms	DFlo	Out
Delay(ms)		DFhc	Out
Channels	24	DFnt	Out
Samples	1000	DFbp	Out
Rec len	200ms	Agc	Off

Time scale = 8 (ms)/division.

PCH	GN	STK	EX	PCH	GN	STK	EX
+ 01	H	0051	11	+ 13	H	0051	13
+ 02	H	0051	12	+ 14	H	0051	13
+ 03	H	0051	12	+ 15	H	0051	12
+ 04	H	0051	12	+ 16	H	0051	13
+ 05	H	0051	12	+ 17	H	0051	13
+ 06	H	0051	12	+ 18	H	0051	13
+ 07	H	0051	12	+ 19	H	0051	13
+ 08	H	0051	12	+ 20	H	0051	12
+ 09	H	0051	12	+ 21	H	0051	13
+ 10	H	0051	12	+ 22	H	0051	15
+ 11	H	0051	12	+ 23	H	0051	13
+ 12	H	0051	13	+ 24	H	0051	14

Appendix 12

HAGER-RICHTER
GEOSCIENCE, INC.

TERRAIN CONDUCTIVITY SURVEY
BURGESS BROS. LANDFILL
SUPERFUND SITE
WOODFORD AND BENNINGTON, VERMONT

Prepared for:

O'Brien & Gere Engineers, Inc.
1200 Crown Colony Drive
Quincy, Massachusetts 02169

Prepared by:

Hager-Richter Geoscience, Inc.
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File 91D44C
May, 1994
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Terrain Conductivity Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44C May, 1994

0. EXECUTIVE SUMMARY

Hager-Richter Geoscience, Inc. conducted an electromagnetic induction (EM) terrain conductivity survey at the Burgess Bros. Landfill Superfund Site, Woodford and Bennington, Vermont for O'Brien & Gere Engineers, Inc., (O'B&G) in May, 1994. The geophysical survey is part of a Phase 1B Investigation of the Site by O'Brien & Gere for the Burgess Bros. Superfund Site Steering Committee. The Site, a privately owned landfill located in a rural area, is on the National Priorities List.

The survey was conducted in three study zones designated by O'B&G. The objective for Study Zone 1, located on the north and east sides of the landfill, was to determine the northern extent of the landfill and to detect possible concentrations of buried metal and/or conductive soils and fluids within the landfill. The objective for Study Zone 2, located in the wooded area to the west of the landfill, was to detect and delineate conductive leachate plumes, if present, to the west from the landfill. In Study Zone 3, located inside the west edge of the landfill (adjacent to the stone wall), the objective was to detect possible concentrations of buried metal, reportedly disposed of in this area.

The results of the EM survey are summarized as follows:

Study Zone 1:

- The northern edge of the landfill, as determined from the EM data, is located slightly north of Grid Line 1.
- Some anomalies indicative of metal objects correlate with the location of surface features such as metal debris, monitoring wells, and large concrete blocks, and are therefore attributed to them. Several anomalies not associated with surface objects, however, are attributed to buried metal.
- A large area of elevated conductivity, without an associated in-phase anomaly is located in the south central portion of the landfill, and the elevated values are attributed to conductive soil and/or conductive fluids.

Terrain Conductivity Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44C May, 1994

Study Zone 2:

- The apparent terrain conductivity values measured along Line 1000 from 300 to 600 feet are likely affected by either the 20,000 gallon storage tank located on the surface 30 feet west of the line, or by buried metal in the area.

- The values of apparent terrain conductivity measured in both the vertical and horizontal dipole modes from about 600 to 1350 feet along Line 1000 vary smoothly from about 0 mmho/m to 3 mmho/m, and do not indicate the presence of a conductive plume in this area.

- The values of apparent terrain conductivity measured in both the vertical and horizontal dipole modes along Line 2000 vary smoothly from about 0 mmho/m to 2 mmho/m, and do not indicate the presence of a conductive plume in this area.

Study Zone 3:

- An area of buried metal was located along the southeast edge of the Study Zone, possibly caused by buried drums.

Terrain Conductivity Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44C May, 1994

TABLE OF CONTENTS

0.	Executive Summary		i
1.	Introduction		1
2.	Equipment and Procedures		2
	2.1	General	2
	2.2	Limitations	2
	2.3	Site Specific	3
3.	Results and Discussion		4
	3.1	General	4
	3.2	Study Zones 1& 3	4
	3.3	Study Zone 2	5
4.	Conclusions		6

FIGURES

1. Site Location
2. Apparent Terrain Conductivity, Study Zones 1 & 3
3. In-Phase Component, Study Zones 1 & 3
4. Interpretation, Study Zones 1 & 3
5. Apparent Terrain Conductivity, Line 1000, Study Zone 2
6. Apparent Terrain Conductivity, Line 2000, Study Zone 2
7. In-Phase Component, Line 1000, Study Zone 2

PLATE

1. Site Plan

APPENDIX

Terrain Conductivity Surveys

Terrain Conductivity Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44C May, 1994

1. INTRODUCTION

Hager-Richter Geoscience, Inc. conducted an electromagnetic induction (EM) terrain conductivity survey at the Burgess Bros. Landfill Superfund Site, Woodford and Bennington, Vermont in May, 1994 for O'Brien & Gere Engineers, Inc. (O'B&G) of Quincy, Massachusetts. The geophysical survey is part of a Phase 1B Investigation of the Site by O'B&G for the Burgess Bros. Superfund Site Steering Committee. Hager-Richter previously conducted a GPR survey at the Site in 1991 and a seismic refraction survey in 1992 for O'B&G.[1]

The Burgess Bros. Landfill Site is a 60-acre property located in a rural area in the Towns of Woodford and Bennington, Vermont. Figure 1 shows the general location of the Site, and Plate 1 is a Site Plan. The landfill is located on the west flank of Harmon Hill and is currently a relatively level, graded area of about 1 acre. Thickly wooded hilly areas occur to the north and west and a steep slope down to a marshy area is present to the south and east of the landfill area.

The survey locations and objectives were specified by O'B&G. The survey was conducted in three study zones, as shown on Plate 1. The objective of the survey for Study Zone 1, located on the north and east sides of the landfill, was to determine the northern extent of the landfill and to detect possible buried metal objects and/or conductive soil or fluids within the landfill. The objective of the survey for Study Zone 2, located in the wooded area to the west of the landfill, was to detect and delineate leachate plumes, if present, to the west from the landfill. For Study Zone 3, located inside the west edge of the landfill (adjacent to the stone wall), the objective was to detect possible buried metal objects reportedly buried in this area.

Two different EM instruments were used for the survey. An EM31 was used in all three Study Zones, and an EM34-3 was also used in Study Zone 2.

Previous geophysical surveys conducted by Hager-Richter and boring information obtained by O'B&G provide useful insight into the subsurface conditions at the Burgess Bros. Landfill Superfund Site. The objective of the 1991 GPR survey was to help characterize the subsurface at the Site. At the time of the GPR survey, no firm (or "ground truth") information about the local stratigraphy was available from on-site borings or excavations. Information provided by O'B&G

[1] "Ground Penetrating Radar Survey, Burgess Bros. Landfill Site, Woodford and Bennington, Vermont," Hager-Richter Geoscience, Inc. report dated January, 1992, and "Seismic Refraction Survey, Burgess Bros. Landfill Superfund Site, Woodford and Bennington, Vermont," Hager-Richter Geoscience, Inc. report dated July, 1993.

Terrain Conductivity Survey
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
File 91D44C May, 1994

The usefulness of terrain conductivity soundings for delineating stratigraphic changes with depth is limited by the relatively small combination of coil separations and dipole orientations available with Geonics' equipment. The instruments were not designed for detailed vertical soundings but, according to the manufacturer's literature (Geonics Technical Note TN-8, rev. 1983), give the most accurate results where the earth can be approximated by a two-layer model. Models of the earth calculated from terrain conductivity data are non-unique; in most cases, multiple models can satisfy the observed data.

The terrain conductivity meter instrument response varies with the orientation of the dipoles. In the horizontal dipole mode (coils vertical and co-planar), the instrument is more sensitive to near-surface conductive layers than it is in the vertical dipole mode (coils horizontal and co-planar). In the horizontal dipole mode, the high sensitivity to near-surface conductivity might mask the effects of changes at depth.

2.3 Site Specific

2.3.1 General. The survey grid and conventions were established by O'B&G. Measurements were made at the beginning and end of each study zone survey with the instrument in use (EM31 or EM34-3) in an area north of the landfill, near well W01-B, for comparison with the survey data, to check for instrument drift, and to establish "background" values for the Site. No significant drift was detected. The EM survey was conducted in substantial accordance with the specifications of the US-EPA approved work plan.

2.3.2 Study Zone 1. The EM survey for Study Zone 1 was conducted using the Geonics EM31 terrain conductivity meter. The survey was conducted using the vertical dipole mode, recording data at 10-foot intervals along lines spaced 20 feet apart. Data for both the quadrature-phase and in-phase components were recorded. Preliminary contour plots of the EM31 data were generated on site following the field work. After discussion, and with the concurrence of the O'B&G, M&E, and EPA site representatives, additional data were collected in certain areas of EM anomalies.

2.3.3 Study Zone 2. The EM survey for Study Zone 2 was conducted using the Geonics EM31 and the Geonics EM34-3 terrain conductivity meters. EM data were collected along two traverses located approximately 150 feet apart. The data were recorded at 25-foot intervals in the vertical and horizontal dipole modes with the EM31 and EM34-3, and using intercoil separations of 10 and 20 meters with the EM34-3, effectively exploring the apparent conductivity to nominal depths of about 9, 18, 25, 49, and 90 feet. Preliminary profile plots of the EM31 and EM34-3 data were generated on site following the field work.

from its research of the local geology indicated that the stratigraphy likely consisted of kame sands, till, and bedrock. The GPR data helped locate the general edges of fill and a few buried metal objects within the landfill. In addition, the GPR data indicated that the subsurface near the landfill consists of a 20 to 45-foot thick sequence of unsaturated and saturated natural sands, and a deeper material tentatively identified as till. Based on the 1992 seismic refraction data, one can infer that the sand layer is continuous in the vicinity of the landfill, and that the "till," with a relatively high velocity, is likely dense and relatively impermeable. Borings installed by O'B&G indicate that bedrock at the Site is located at depths greater than 360 feet.

Hager-Richter personnel were on Site May 9-11, 1994. The weather conditions were clear and warm during the field effort. Jeffrey Reid and Michael Swierz conducted the EM survey. The project was coordinated with Mr. Richard Stromberg of O'B&G, and the field operations were observed by Mr. Stromberg and Mr. Mark Randazzo of O'B&G. Mr. Ronald Jennings of the US-EPA and Ms. Lynda Wedderspoon of the VT-AEC observed a portion of the field work on May 9, and Ms. Heather Vick of Metcalf & Eddy, Inc. observed the field work as an oversight representative of the US-EPA on May 9-10. All field operations were conducted under Level D personal protection.

Preliminary analysis of the EM data was performed in the field, and finalized at the Hager-Richter offices. Original data and field notes will be retained in the Hager-Richter files for at least three years.

2. EQUIPMENT AND PROCEDURES

2.1 General

The general procedures and equipment used for the terrain conductivity survey are described in the Appendix.

2.2 Limitations of the Method

As with any of the electrical geophysical methods, terrain conductivity data are subject to interference from such cultural features as buildings, fencing, and underground and overhead power lines. Thus, for certain applications, the use of the terrain conductivity method in urban settings might be inappropriate.

2.3.4 Study Zone 3. The EM survey for Study Zone 3 was conducted with the Geonics EM31. Both the quadrature-phase and in-phase components were recorded at 5-foot intervals along lines spaced 5 feet apart. Preliminary contour plots of the EM31 data were generated on site following the field work.

3. RESULTS AND DISCUSSION

3.1 General

The locations of the Study Zones and all EM traverses are shown on Plate 1. Background apparent terrain conductivity values were measured along an upgradient transect located approximately 250 feet north of the landfill. The background values for apparent terrain conductivity range from 0.2 to 1.8 mmho/m.

3.2 Study Zones 1 & 3

The combined results of the terrain conductivity survey for Study Zones 1 & 3 are shown in Figures 2 and 3, color contour plots of apparent terrain conductivity and the in-phase component, respectively. Apparent terrain conductivity data are useful for detecting the presence of anomalously conductive ground, which might be caused by the presence of conductive fluids and/or soils such as contaminant plumes, with properties unlike those of the natural materials on site, and for detecting metal objects. The in-phase component data, on the other hand, are *only* used to detect metal objects. Figure 4 shows the interpretation of the terrain conductivity and in-phase component survey data.

The measured values of apparent terrain conductivity represented by green on Figure 2 are close to "background" for most of the area northeast of Grid Line 1. This area is interpreted to be natural, and the edge of landfill, as interpreted from the EM data, is shown as a heavy dashed line on Figure 4. Four EM anomalies are located to the north of the fill/natural boundary, two of which are attributed to surface debris, and two to small buried metal objects.

On both Figures 2 and 3, scattered zones of bright blue and red represent locally anomalous positive and negative values of apparent terrain conductivity and/or in-phase component that are typical patterns associated with metal objects. Some of the anomalies are attributed to areas of surface debris containing metal, and are marked such on Figure 4. All other anomalies are attributed to buried metal objects. The small anomaly located at (T,7.5) is attributed to buried metal objects, and is in the approximate location of the reported buried drums of Study Zone 3.

The large area of elevated conductivity located in the south central portion of Study Zones 1 & 3, represented by orange (>10 and <20 mmho/m) on Figure 2, is attributed to conductive soils or fluids. This area is outlined in Figure 4.

Five objects, interpreted from the GPR data (1992) to be possible buried metal objects, are shown on Figure 4 with an X. Only two of the GPR anomalies lie within an area interpreted to contain buried metal from the EM data. The three remaining buried objects are attributed to non-metallic sources. The extent of landfill, as determined by the GPR survey (1992), outlines the area of elevated conductivity as noted above. The poor GPR signal penetration in this area is consistent with the elevated conductivity of the soil and/or fluids inferred from the EM data.

3.3 Study Zone 2

Terrain conductivity profiling was conducted along two lines, specified by O'B&G, west of the landfill to detect a possible conductive leachate plume. The locations of the profile lines are shown on Plate 1. Figures 5 and 6 are profile plots of the apparent terrain conductivity measured along Lines 1000 and 2000, respectively.

The values of apparent conductivity measured in both the vertical and horizontal dipole modes range from about 9.5 mmho/m, west of the soil staging area, to about -1.0 mmho/m in the same general area. In particular, the apparent terrain conductivity values measured along Line 1000 are significantly elevated and variable from 300 to 600 feet. The in-phase component, as measured with the EM31 and shown in Figure 6, is also elevated in this area indicating the presence of metal. We infer that the apparent terrain conductivity values measured along this section of Line 1000 are likely affected by either the 20,000 gallon storage tank located on the surface 30 feet west of the line, or by buried metal in the area. The values along the remainder of Line 1000 vary fairly smoothly from 0 mmho/m to 3 mmho/m, and do not indicate the presence of a conductive plume in this area.

The values of apparent conductivity measured in both the vertical and horizontal dipole modes along Line 2000 vary fairly smoothly from about 0 mmho/m to 2 mmho/m, and do not indicate the presence of a conductive plume in this area.

4. CONCLUSIONS

Based on the EM survey conducted in the three study zones at the Burgess Bros. Landfill Superfund Site in Bennington and Woodford, Vermont, we conclude the following:

Study Zone 1:

- The northern edge of the landfill, as determined from the EM data, is located slightly north of Grid Line 1.

- Some of the anomalies indicative of metal objects correlate with the location of surface objects such as metal debris, monitoring wells, and large concrete blocks, and are therefore attributed to them. Many anomalies not associated with such surface objects, however, are attributed to unidentified buried metal objects.

- A large area of elevated conductivity, without an associated in-phase anomaly is located in the south central portion of the landfill, and the elevated conductivity is attributed to conductive soil and/or conductive fluids.

Study Zone 2:

- The apparent terrain conductivity values measured along Line 1000 from 300 to 600 feet are likely affected by either the 20,000 gallon storage tank located on the surface 30 feet west of the line, or by buried metal in the area.

- The values of apparent terrain conductivity measured in both the vertical and horizontal dipole modes from about 600 to 1350 feet along Line 1000 vary smoothly from about 0 mmho/m to 3 mmho/m, and do not indicate the presence of a conductive plume in this area.

- The values of apparent terrain conductivity measured in both the vertical and horizontal dipole modes along Line 2000 vary smoothly from about 0 mmho/m to 2 mmho/m, and do not indicate the presence of a conductive plume in this area.

Study Zone 3:

- An area of buried metal was located along the southeast edge of the Study Zone, possibly caused by buried drums.

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Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont
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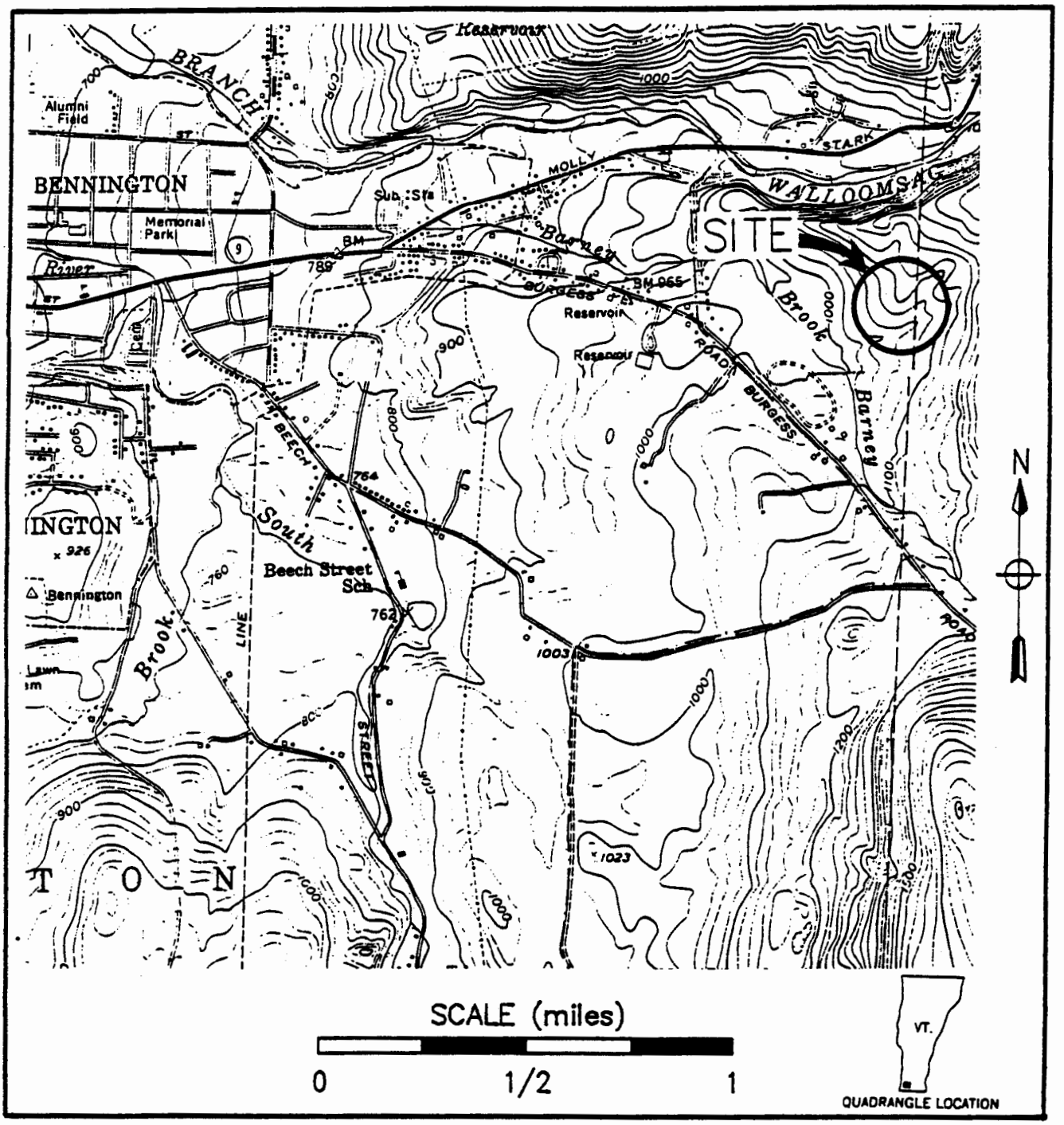
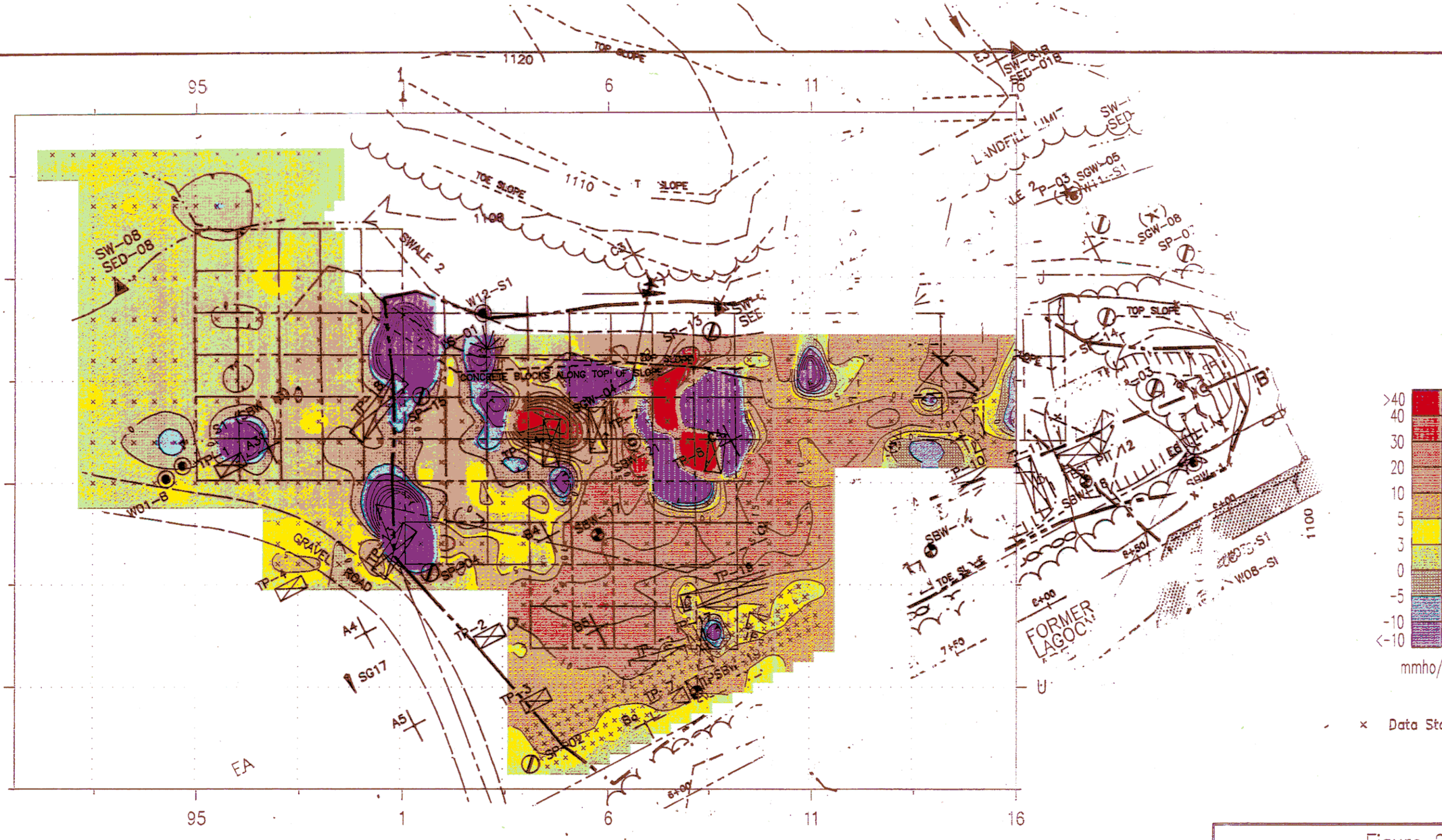


Figure 1. Site location.



NOTES:
Data recorded with EM31 in vertical dipole mode.
Survey grid and conventions established by O'Brien & Gere.

SCALE (feet)
0 50 100

Figure 2
Apparent Terrain Conductivity
Study Zones 1&3
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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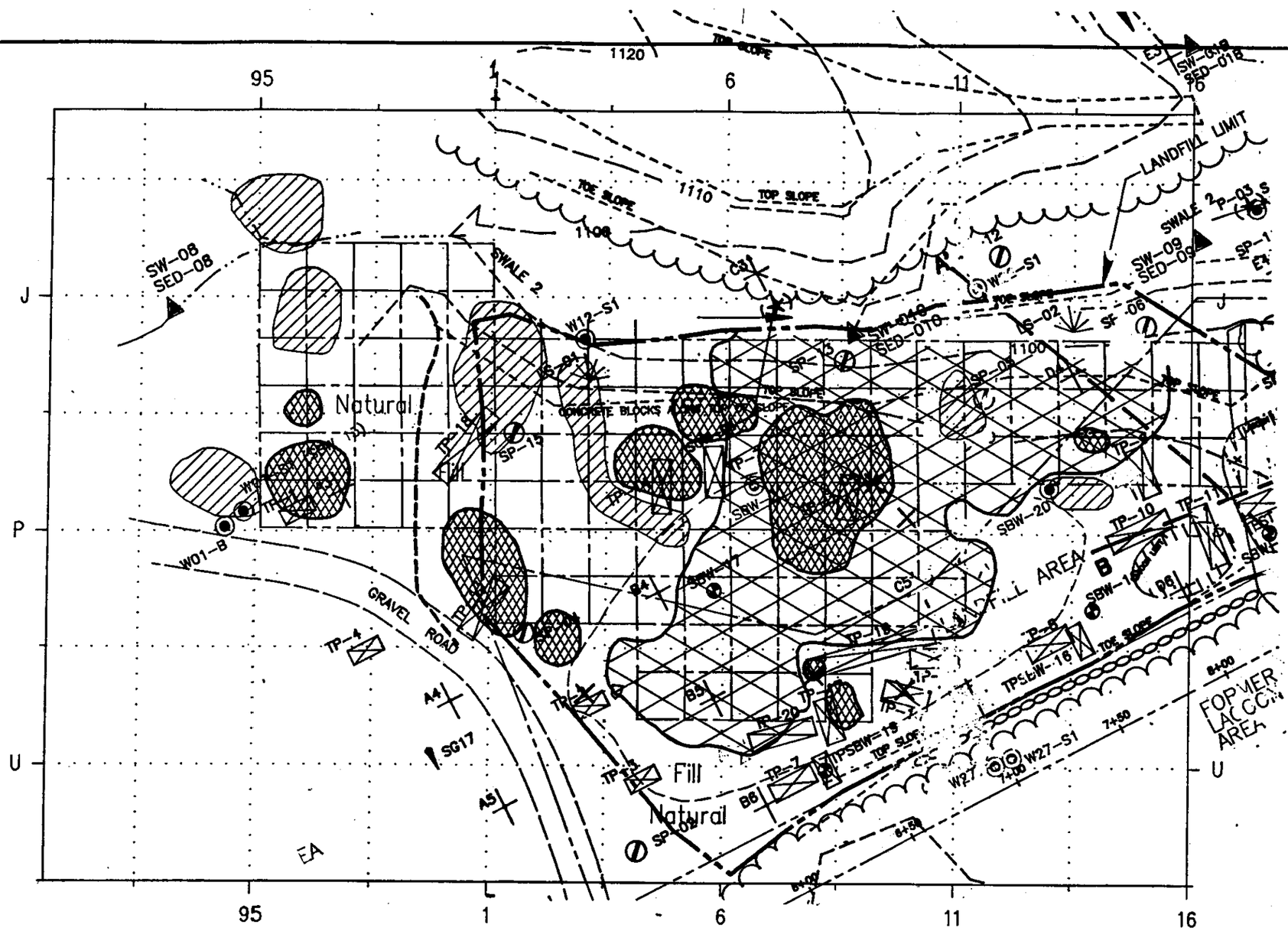

LEGEND

- Fill / Natural — Extent of landfill materials based on EM data
- Conductive soil and/or fluids
- Areas of buried metal objects
- Areas of observed surface debris containing metal
- × — Possible buried metal object detected by H-R GPR survey (1992)
- Fill / Natural — Extent of landfill as defined by H-R GPR survey (1992)

NOTE:
Survey grid and conventions established by O'Brien & Gere.

SCALE (feet)
0 50 100

Figure 4
Interpretation
Study Zones 1 & 3
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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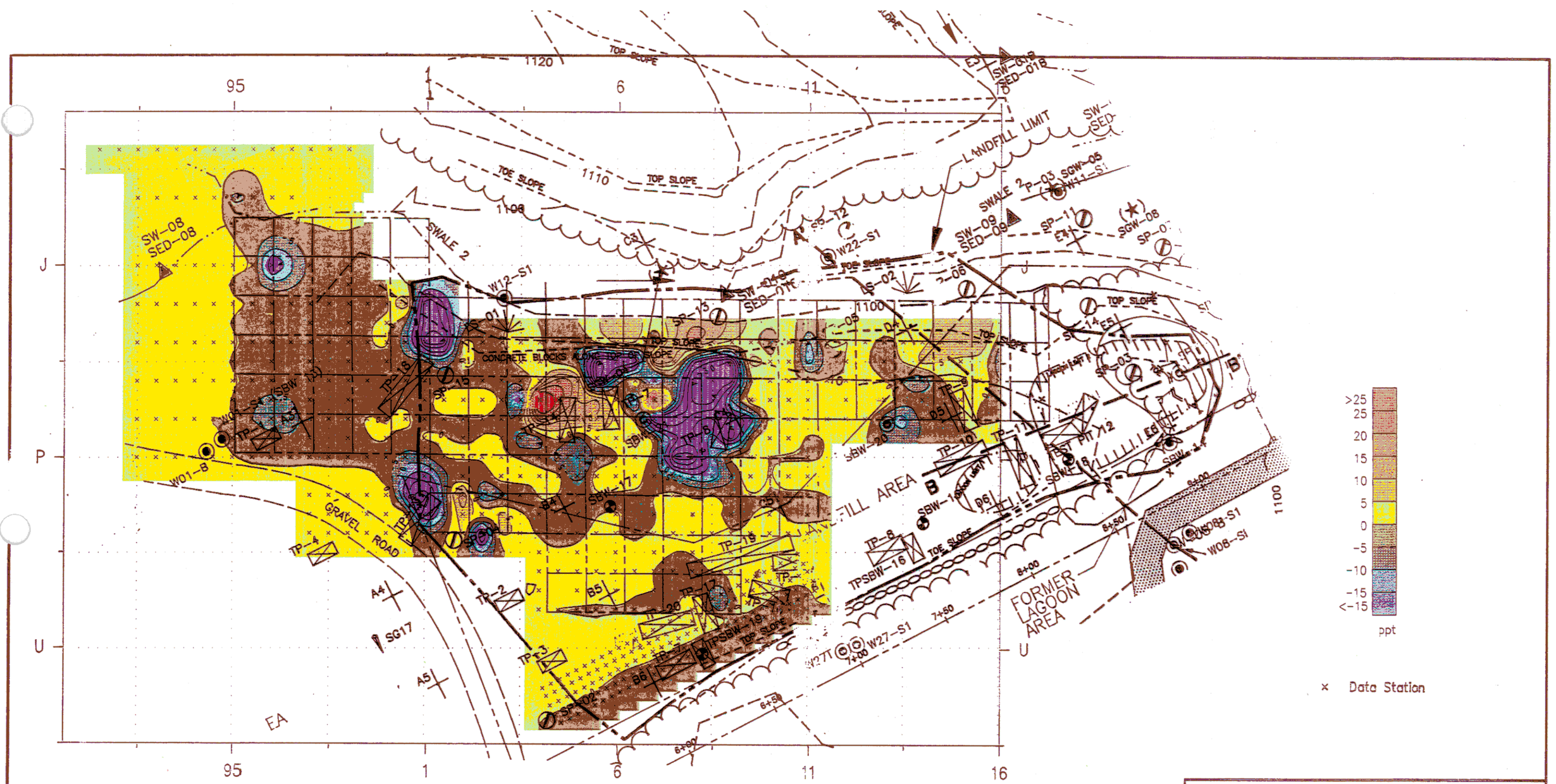

NOTES:
Data recorded with EM31 in vertical dipole mode.
Survey grid and conventions established by O'Brien & Gere.

SCALE (feet)
0 · 50 100

Figure 3
In-phase Component
Study Zones 1&3
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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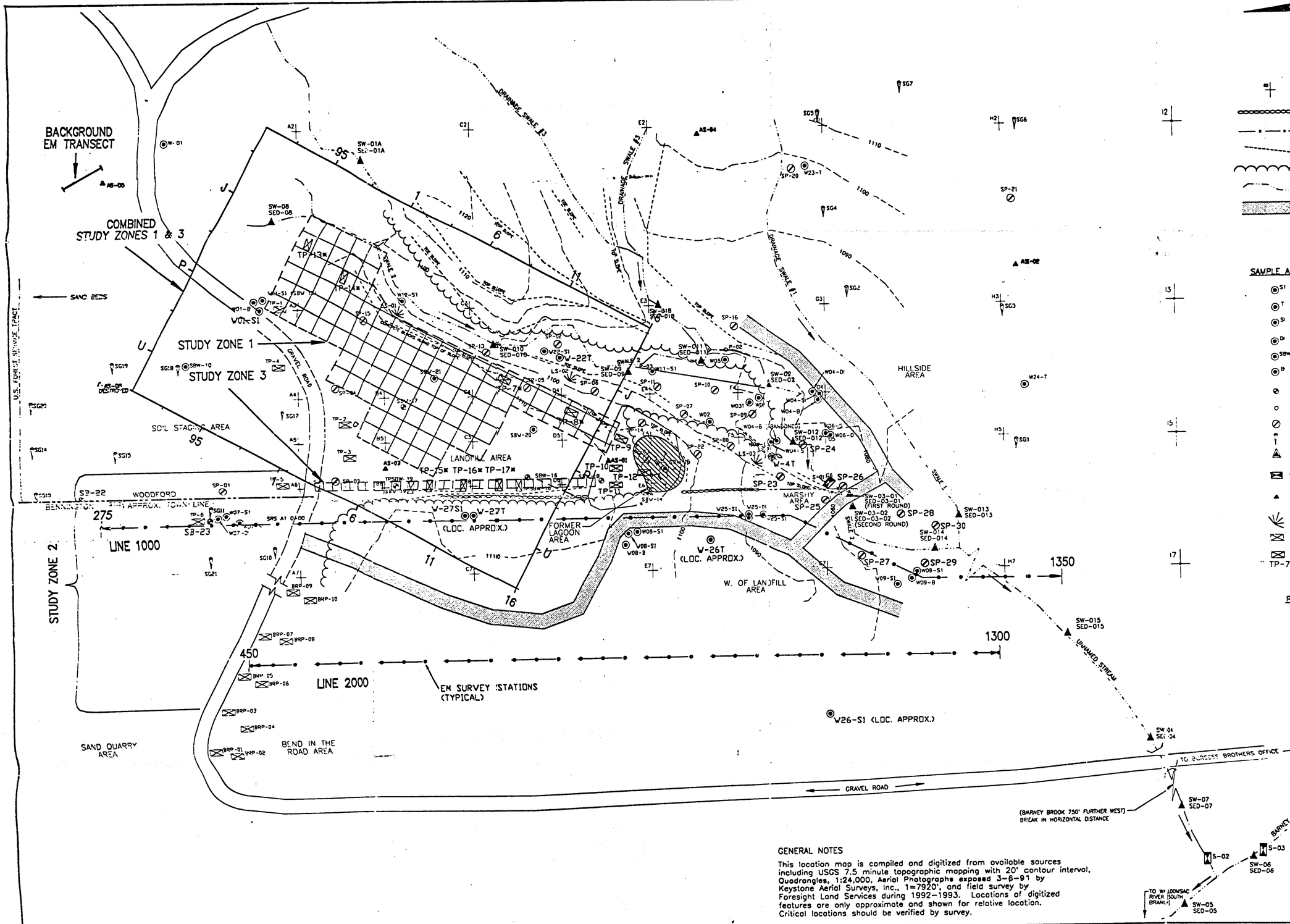

LEGEND

- SITE GRID CONTROL POINT
- STONE WALL
- SAFETY FENCE
- TOP OF SLOPE
- EDGE OF WOODLANDS
- WATERCOURSE
- TEMPORARY WELL ACCESS ROAD

SAMPLE AND MONITORING WELL LEGEND

- WELL INSTALLED IN SHALLOW KAME SAND UNIT (WATER TABLE)
- WELL INSTALLED IN GLACIAL TILL
- WELL INSTALLED IN UPPER PORTION OF WEATHERED BEDROCK
- WELL INSTALLED IN LOWER PORTION OF WEATHERED BEDROCK
- WELL INSTALLED IN LANDFILL AREA
- WELL INSTALLED IN COMPETENT BEDROCK (WELL ELEVATIONS ARE PRESENTED ON TABLE 4)
- TEST BORING COMPLETED IN LANDFILL WITHOUT WELL PLACEMENT
- PIEZOMETER IN STREAM BED
- SHALLOW SURFACE SAMPLE (0"-6")
- SOIL GAS EXTRACTION (1,4,7 FEET)
- SURFACE WATER AND SEDIMENT SAMPLE
- STREAM FLOW MONITORING STATIONS, (NOTE: S-04 AND S-05 SHOWN ON INSET MAP)
- AIR SAMPLING POINT BASED ON PREVAILING WIND DIRECTION
- LEACHATE SAMPLE (APPROX)
- TEST PIT
- LOCATION BASED ON EM SURVEY

PHASE 1B INVESTIGATION

- W4-T
- W22-T
- W01-S1
- W26-T
- W26-S1
- W-27T
- W-27S1
- SB-22
- SB-23
- TP-7 THRU TP-17
- SP-23 THRU SP-30
- EM-34/31 SURVEY STATIONS WEST OF LANDFILL
- EM-31 GRID SYSTEM (20' GRID NODES, SURVEY CENTERED AT 10' INTERVALS BASED ON FIELD RESULTS)

GENERAL NOTES

This location map is compiled and digitized from available sources including USGS 7.5 minute topographic mapping with 20' contour interval, Quadrangles, 1:24,000, Aerial Photographs exposed 3-6-91 by Keystone Aerial Surveys, Inc., 1=7920', and field survey by Foresight Land Services during 1992-1993. Locations of digitized features are only approximate and shown for relative location. Critical locations should be verified by survey.

When photographic reproduction is used; the drawings are not to scale. All scales are reduced from indicated to approximately half size.

1"=50'-0" (50 0 50 100)

Plate 1
Site Plan
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

File 91D44C | May, 1994

HAGER-RICHTER GEOSCIENCE, INC.
8 Industrial Way - D10
Salem, New Hampshire 03079

O'BRIEN & GERE ENGINEERS, INC.

BURGESS BROTHERS SUPERFUND SITE
REMEDIAL INVESTIGATION

BURGESS BROTHERS SUPERFUND SITE
PHASE 1B FIELD INVESTIGATION

FILE NO. 5271.001-133P

DATE FEBRUARY 1994

FIGURE 1B-1

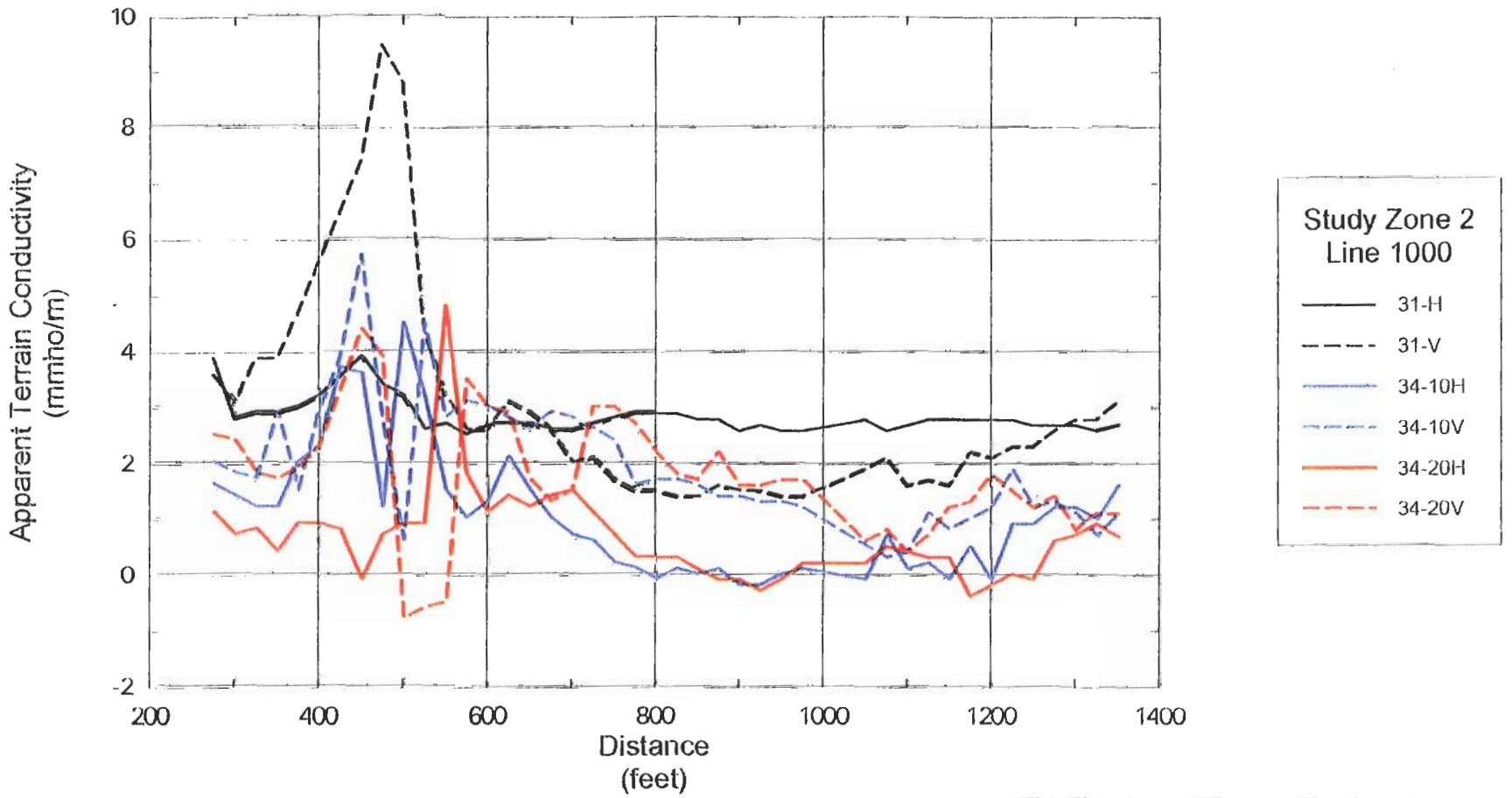

Figure 5
Apparent Terrain Conductivity
Line 1000, Study Zone 2
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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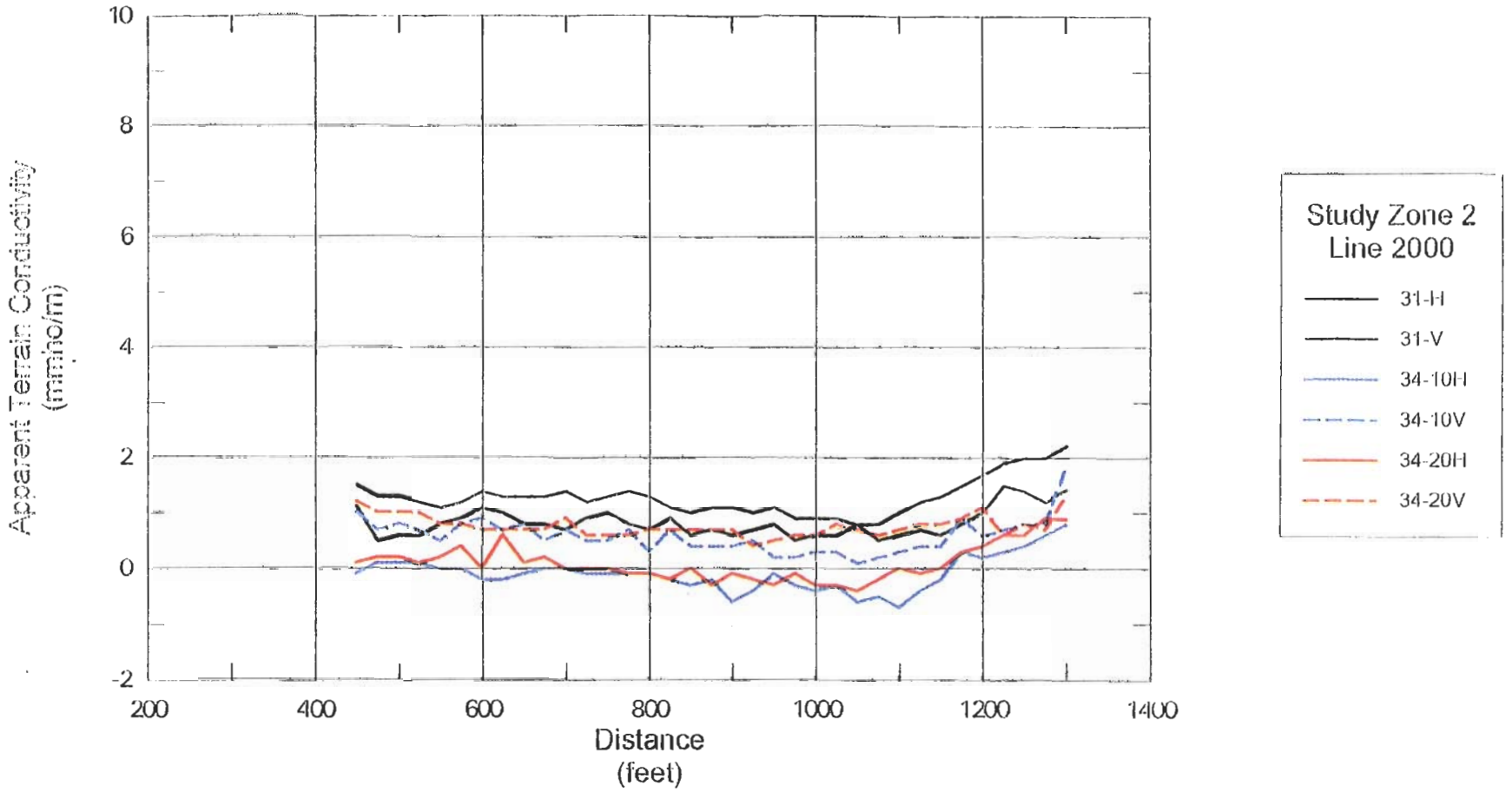

Figure 6
Apparent Terrain Conductivity
Line 2000, Study Zone 2
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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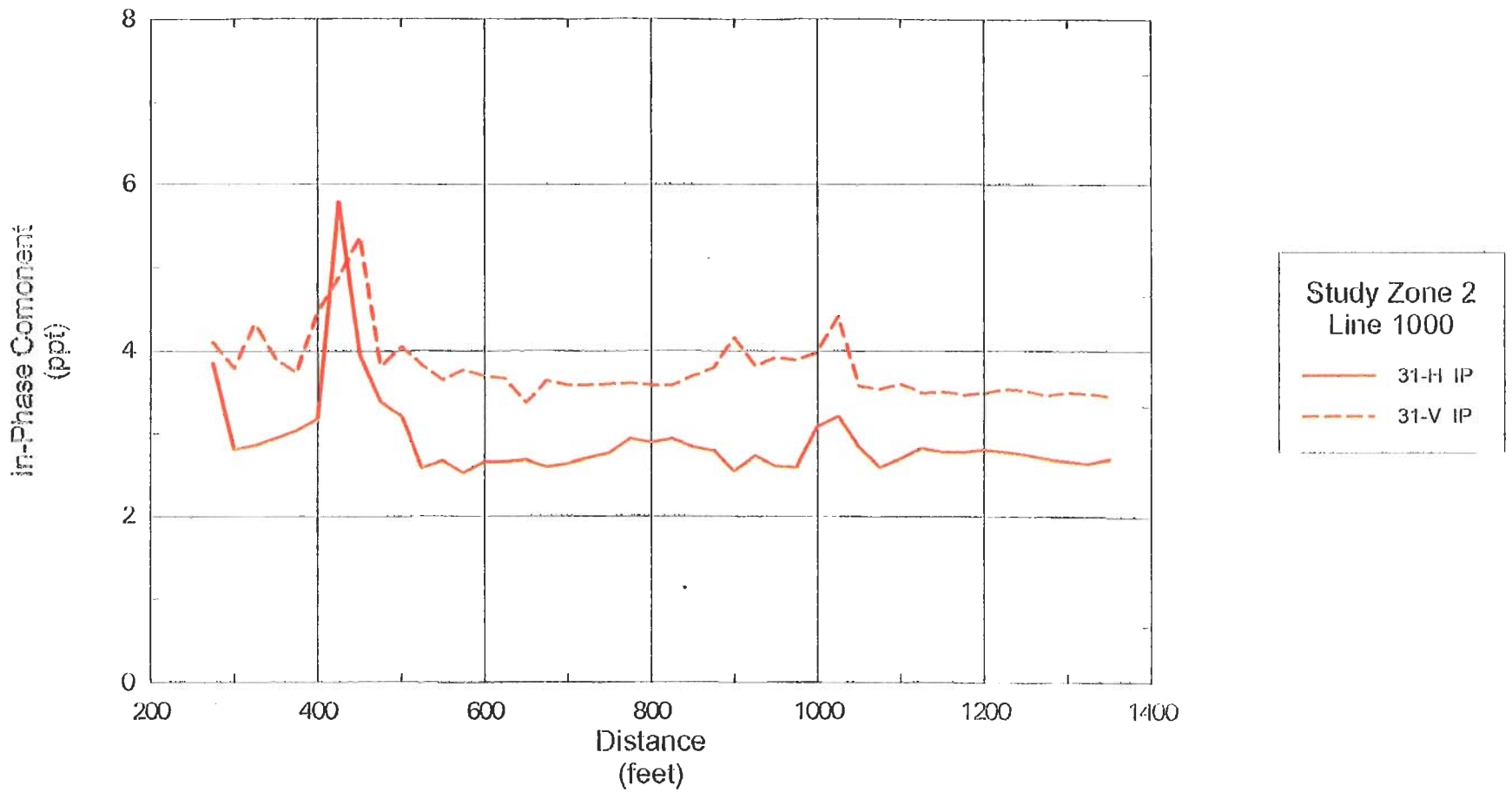

Figure 7
In-phase Component
Line 1000, Study Zone 2
Burgess Bros. Landfill Superfund Site
Woodford & Bennington, Vermont

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APPENDIX
TERRAIN CONDUCTIVITY SURVEYS

Terrain conductivity meters use the electromagnetic induction method, wherein an electrical current is induced in the subsurface by energizing a coil of wire (the transmitter) with an alternating current at the surface of the earth. The induced alternating current produces a secondary magnetic field that is proportional to the conductivity of the material in the sul surface, and the voltage generated by the secondary magnetic field in the receiver coil of the instrument is related to the conductivity (Figure A-1). The depth of investigation is a function of the inter-coil spacing and the orientation of the dipole. The nominal depth of exploration is generally estimated as 3/4 times the inter-coil spacing for the horizontal dipole mode, and 1.5 times the inter-coil spacing for the vertical dipole mode.

Equipment. We used two terrain conductivity meters for the terrain conductivity survey. The two instruments, Geonics' Model EM31-DL and Model EM34-3XL, operate on the same principle. They are electromagnetic induction units that measure terrain conductivity without electrodes or contact. Both instruments are calibrated to read ground conductivity directly in millimhos per meter (mmho/m, numerically equivalent to the SI units, millisiemens per meter, mS/m) with a resolution of 2% of full scale and an accuracy of 1 mmho/m. The data are recorded on a digital data logger and transferred to a computer at the end of each field day.

EM31-DL. The EM31-DL has induction coils mounted with a fixed separation of 12 feet in a rigid boom. In normal operation, it is used with a vertical dipole. The nominal depth of earth sampled by the EM31-DL is about 9 feet in the horizontal dipole mode and 18 feet in the vertical dipole mode.

Two components of the induced magnetic field measured by the EM31-DL are recorded: (1) the quadrature-phase component; and (2) the in-phase component. The quadrature-phase component is a measure of the average terrain conductivity of the subsurface materials located between the receiver and transmitter of the EM31-DL. The in-phase component is a sensitive indicator of the presence of conductive metal objects; however, the exact identification of the object cannot be determined from the terrain conductivity data alone.

EM34-3XL. The EM34-3XL is equipped with cables that permit the selection of coil separations of 10, 20, or 40 meters. The nominal depth of earth sampled with the EM34-3XL can be varied, depending on the coil separation and orientation of the dipole (horizontal or vertical). The maximum depth of exploration is generally estimated as 3/4 times the inter-coil spacing for the horizontal dipole mode, and 1.5 times the inter-coil spacing for the vertical dipole mode. The "XL" model EM34-3 instrument has a higher-powered transmitter than standard EM34-3 units, making it less influenced by power lines and other cultural "noise." The quadrature-phase data are generally the only component recorded with the EM34-3.

Data Analysis and Interpretation. Terrain conductivity data are most commonly plotted in either profile format or as contour maps, depending on the density of the data. At sites free of metal objects and other cultural interference, the terrain conductivity measured at a particular location is controlled by the subsurface fluid. The instrument response is more affected by near-surface material than by deeper material, particularly horizontal dipole data. In cases where the terrain conductivity meter coil is directly over a buried metal target, the apparent conductivity reading may be a negative number.

Terrain conductivity surveys are commonly included in environmental investigations because they can be used to determine the lateral extent of disposal areas and/or landfills, to detect buried metal objects, and to detect the presence of conductive leachate plumes. Typically, terrain conductivity values measured in disposal areas are irregular and highly variable over short distances due to the heterogeneous materials in the subsurface. The edges of disposal areas can be determined, then, where there is a change to smoothly varying values of terrain conductivity. In areas of buried metal objects, terrain conductivity meters commonly yield apparently negative values. Leachate plumes are generally recognized on the basis of terrain conductivity data as relatively smoothly varying, but anomalously elevated, values compared to the background values for a given site.

Limitations of the Method. As with any of the electrical geophysical methods, terrain conductivity data are subject to interference from such cultural features as buildings, fencing, and underground and overhead power lines. Thus, for certain applications, the use of the terrain conductivity method in urban settings might be inappropriate.

The usefulness of terrain conductivity soundings for delineating stratigraphic changes with depth is limited by the relatively small combination of coil separations and dipole orientations available with Geonics' equipment. The instruments were not designed for detailed vertical soundings but, according to the manufacturer's literature (Geonics Technical Note TN-8, rev. 1983), give the most accurate results where the earth can be approximated by a two-layer model. Models of the earth calculated from terrain conductivity data are non-unique; in most cases, multiple models can satisfy the observed data.

The terrain conductivity meter instrument response varies with the orientation of the dipoles. In the horizontal dipole mode (coils vertical and co-planar), the instrument is more sensitive to near-surface conductive layers than it is in the vertical dipole mode (coils horizontal and co-planar). In the horizontal dipole mode, the high sensitivity to near-surface conductivity might mask the effects of changes at depth.

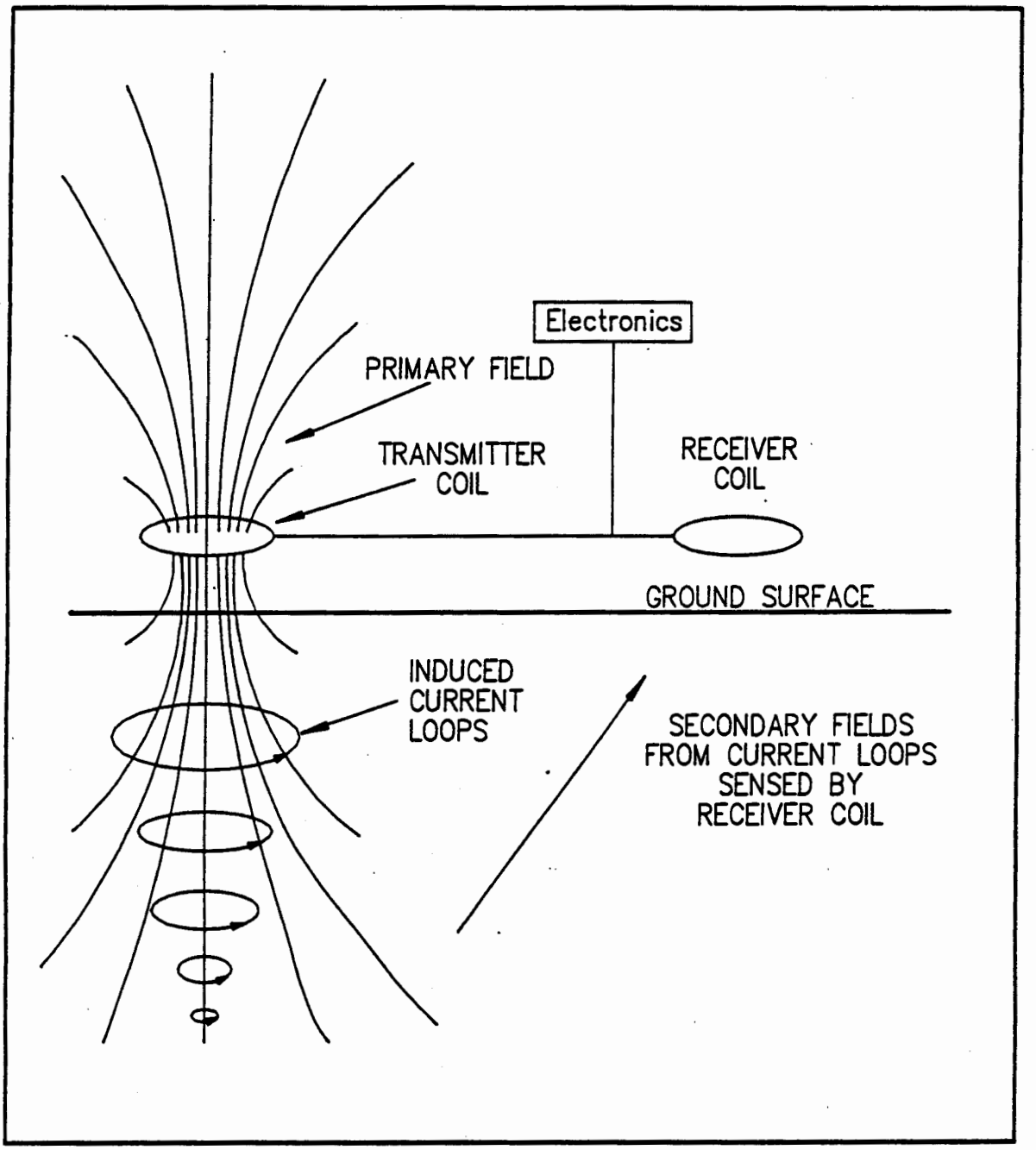


Figure A-1. Electromagnetic induction in a homogeneous half-space. Figure modified from Geonics literature.

Appendix 13

3.02. Vapor Screening Survey Results

Between the dates of January 13 and 18, 1992, a vapor screening survey was conducted at the site. The objective of the screening survey was to evaluate the areal distribution of subsurface VOCs in the vicinity of the former lagoon area. Due to the varying topography in and around the former lagoon, several sample matrices were collected for portable gas chromatographic (GC) analysis. The matrices sampled included: 1) surface water and sediments; 2) shallow soils; 3) soil vapor; 4) shallow ground water (water table); and 5) deeper ground water at depths of 7 to 15 feet below grade in monitoring wells. The sampling locations for the matrices investigated are shown on Figure LFI-10.

3.02.1. Vapor Screening Survey Approach

The vapor screening survey included on-site analysis of soil vapor, soil headspace and water headspace. With the exception of soil vapor, samples were placed in a glass vial, heated and agitated to allow for volatilization of VOCs into the vapor phase. After an equilibration period an aliquot of the resulting headspace above the soil or water sample was extracted for direct injection into the portable GC. For soil vapor samples, the vapors present in the soil pore space of the vadose zone were captured, secured and injected directly into the GC. Soil vapor and headspace screening is designed to locate and semi-quantitatively identify the concentration and chemical composition of subsurface VOCs. Therefore, the vapor screening survey was not designed to, nor does it, provide a direct measurement of the concentration of a given volatile component in soils or water. The screening survey provides a basis for evaluating the relative concentration of VOCs present in a matrix, for the purpose of locating VOCs in a given area of study.

3.02.1.1. Surface Water and Sediments

Surface water samples were collected from a surface water system hydraulically connected with the site to evaluate the contribution of the former lagoon on nearby surface water quality. Twelve surface water samples were collected from the main

unnamed stream, some feeder tributaries (A, B, C, etc.), and Barney Brook (Figure LFI-10). Samples were collected from locations upgradient and downgradient of the former lagoon area, as well as upgradient and downgradient of the confluence of the unnamed stream and Barney Brook.

- Surface water samples SW1 through SW4 were collected from locations corresponding to those sampled previously by Geraghty & Miller.
- SW5 was collected in Barney Brook 50 feet downstream from its confluence with the unnamed stream.
- SW6 was collected in Barney Brook 50 feet upstream from its confluence with the unnamed stream.
- SW7 was collected in the unnamed stream 50 feet upstream from its confluence with Barney Brook.
- SW8 was collected in Barney Brook 50 feet upstream from its confluence with Walloomsac River (South Stream) which discharges to the Walloomsac River.
- SW9 was collected from unnamed tributary "D" to the unnamed stream.
- SW10 was collected in Walloomsac River (South Stream) 50 feet upstream from its confluence with Barney Brook.
- SW11 was collected from unnamed tributary "A" to the unnamed stream.
- SW12 was collected from unnamed tributary "D" to the unnamed stream 500 feet upstream from SW1 (background).

Sediment samples were collected from the same locations as those utilized for the surface water sampling, with the exception of location SW12 where no sediment sample was collected.

The levels of VOCs in both surface water and ground water have been compared to their effective solubilities to evaluate the potential for NAPLs. Calculations are included as Attachment D to this report. Based on the calculations, the concentrations of volatile solvents are below their respective limits of solubility in water, with the exception of PCE. Due to the qualitative nature of the headspace results, it cannot be stated conclusively whether free phase liquid is present on site. The possible presence of free phase liquids will be evaluated further during the Remedial Investigation.

3.02.1.2. Shallow Soils

Twenty-three shallow soil samples were collected from the marshy area and the adjoining hillside situated hydraulically downgradient of the former lagoon to evaluate contaminant migration to the marsh. The samples were initially placed at the toe of the lagoon in the marsh area and were advanced radially outward to the south up the adjoining hillside to the east (Figure LFI-10).

3.02.1.3. Soil Vapor

Twenty soil vapor samples were collected from the former lagoon area, the landfill area and other areas of higher terrain in the vicinity of the landfill to the north and west. An initial transect was advanced in the north/south direction, which extended from the center of the former lagoon to the northern extent of the landfill (Figure LFI-10). Based on the results obtained from the initial transect, secondary transects were advanced parallel and perpendicular to the initial transect to evaluate the areal distribution of VOCs in and around the landfill.

3.02.1.4. Shallow Ground Water

Fourteen ground water samples were collected from the water table just below or at grade in the marshy area hydraulically downgradient of the former lagoon to evaluate the presence and distribution of dissolved VOCs in the uppermost water table zone. An initial transect was advanced from the toe of the former lagoon outward in a southeasterly direction (Figure LFI-10). Based on the results of the initial transect, secondary transects were advanced to north and south of, and parallel to, the initial transect. These transects resulted in samples being collected from the adjoining hillside similar to the soil samples.

3.02.1.5. Ground Water

Ground water samples were collected from seven of the eight permanent monitoring wells situated in the vicinity of the former lagoon. No sample was collected from monitoring well W-4S, which was obstructed due to a disconnected coupling in the

PVC. Monitoring wells are situated in the marshy area downgradient of the former lagoon, with the exception of W-1 located upgradient of the landfill (Figure LFI-10). Ground water samples represent shallow ground water at depths of 7 to 15 feet below grade in the kame sand deposit.

3.02.2. Vapor Screening Survey Methods

3.02.2.1. Surface Water and Sediments

Surface water samples were collected prior to collection of the corresponding sediment sample, from the middle of the water body and at a depth equal to approximately one-third the total depth of the water at these locations. Samples were collected from the downstream point first and progressed upstream. The sample was procured by straddling the stream, or by standing downstream of the desired collection point, and submerging a 40 ml glass vial equipped with teflon septa (volatile organic analysis [VOA] vial). The VOA vial was rinsed with one volume of surface water prior to collection of the sample for analysis. The VOA vial was filled completely with the absence of headspace or air bubbles. In addition, a 100 ml container was filled with surface water for collection of temperature, pH and conductivity measurements. The VOA vial was then labelled and placed on ice until analysis was initiated.

Sediment samples were collected from a depositional area of the stream using a stainless steel spoon. The sampler was situated downstream of the collection point to minimize agitation of sediments prior to collection of a sample. The sediments were collected from a depth of two to six inches beneath the surface water/sediment interface and placed in a VOA vial. VOA vials were filled halfway to allow for adequate headspace volume. Sample vials were labelled and placed on ice until analysis was completed.

3.02.2.2. Shallow Soils

Shallow soil samples were collected from a depth of six to twelve inches below grade using a stainless steel soil core. The soil core was pushed six inches into the soil

and the cored soil was discarded. The core was reinserted and inserted into the soil to a depth of twelve inches below grade. This soil was transferred from the soil core to a VOA vial using a stainless steel spatula. The vial was labelled and placed on ice until the analysis was performed.

3.02.2.3. Soil Vapor

Soil vapor samples were collected using slotted aluminum shield points attached to a length of teflon tubing. The teflon tubing/shield point assembly was driven to a depth of five feet using hardened steel probes and a hand-held impact hammer. Prior to collection of a sample, the hardened steel probe was retracted three to six inches to expose the vapor intake slots of the shield point. The sample was collected by attaching a 50 ml ground glass syringe, via a length of tygon tubing, to the teflon tubing/shield point assembly and drawing back the plunger. The sample was secured by closing the stopcock of the 50 ml syringe until the analysis was performed. An aliquot of sample was drawn from the 50 ml syringe using a 100 μl syringe for direct injection into the GC.

3.02.2.4. Water Table Samples

The uppermost water table samples were collected by driving a hardened steel probe into the ground to a depth of three feet below grade to create an annulus. The probe was removed and two minutes were allowed for the hole to fill with ground water. A 20 ml pipet attached to a length of tygon tubing was lowered into the annulus to a depth of two and one half feet below grade and the sample was drawn into the pipet using a pipet bulb. The ground water sample was transferred into a VOA vial for analysis. The samples were labelled and placed on ice until analysis was initiated. Dedicated pipets and tygon tubing were used for collection of the samples. The method stated above was used in lieu of the method stated in the Work Plan due to low temperatures at the time of sampling, which caused the samples to freeze within the teflon tubing before they could be collected.

3.02.2.5. Shallow Ground Water in Monitoring Wells

Ground water samples were collected from the existing monitoring wells on site using a stainless steel bailer. Prior to collection of the samples for analysis, the wells were developed according to procedures in the Work Plan. The well development water was stored in 55-gallon drums for subsequent disposal. After five well volumes of water had been purged, the pH, conductivity, and temperature and salinity of the water were measured and recorded. The results of these tests are included in the field sampling logs in Attachment B. The sample for analysis was procured by filling the bailer with well water and transferring the sample into a VOA vial. The vials were labelled and placed on ice until analysis was initiated.

3.02.2.6. Sample Preparation

Surface water, the uppermost water table samples, and shallow ground water samples were prepared for analysis in the following manner:

1. The VOA vial was placed in a constant temperature bath at 40 degrees Celsius for twenty minutes.
2. A syringe needle was placed through the septa of the VOA vial and 10 ml of sample was removed using a 10 ml syringe.
3. The vial was then inverted and shaken thoroughly for one minute. The sample was then allowed to come to thermal and phase equilibrium by allowing to stand in the bath for an additional ten minutes.
4. A precise aliquot of headspace was then withdrawn from the vial using a gas-tight 100 μl syringe and injected into the GC for analysis.

Shallow soil and sediment samples were prepared for analysis in a similar manner with the exception of the removal of 10 ml of sample prior to agitation.

3.02.2.7. Analysis

The headspace and soil vapor samples were analyzed using a Photovac 10S70 portable GC equipped with a CPSIL-5 capillary column, isothermal column oven, and 10.6 eV photoionization detector.

3.02.2.8. GC Calibration

The calibration of the GC consisted of the following: 1) initial calibration, and 2) continuing calibration.

1. *Initial Calibration* - Prior to initiation of field activities, a four-point calibration was completed for trichloroethene (TCE), tetrachloroethene (PCE), vinyl chloride (VC), 1,1-dichloroethene (DCE), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), 1,1,1-trichloroethane (1,1,1-TCA), toluene, ethyl-benzene and xylene. Included was a zero level standard or method blank and three concentration levels of the calibrant.
2. *Continuing Calibration* - During the field investigation, a four-point calibration was completed for benzene, toluene and xylene (BTX) at the start of the day, and a mid-level BTX standard was run after every ten samples and at the end of the day.

3.02.2.9. Sample Quantification

A least squares regression was performed to develop an equation relating peak area to sample concentration for a calibrant. The results of the sample analyses were quantified by comparison to the calibration equations. Sample peaks that were consistent with a calibrant standard, on the basis of retention time, were quantified using the corresponding calibration equation. Sample peaks that were inconsistent with calibrant standards, on the basis of retention time, were grouped, labelled "Other VOCs," and quantified using an average of the calibrant equations. Only peaks with elution times in the range of 40 to 600 seconds were quantified to minimize the contribution of injection and moisture peaks present in the majority of sample analyses.

3.02.3. Vapor Screening Survey Results

Results of the headspace and soil vapor screening are presented in Tables 2 through 7. Results obtained for the various media sampled are summarized separately below.

3.02.3.1. Surface Water and Sediments Headspace

Results of the surface water screening are presented in Table 2. Total VOC concentrations detected in the headspace of the twelve surface water samples ranged from 0.009 to 31.93 ppm. The highest total VOC concentrations were observed in samples SW2 and SW3 (31.93 and 29.5 ppm, respectively), immediately downgradient of the former lagoon area (Figure LFI-11). The concentration at SW4, located in the unnamed stream at the access road culvert, decreased to 10.7 ppm. Compounds detected in surface water headspace included PCE, TCE, DCA, DCE, and toluene, with the major constituents being PCE and TCE. Site-related VOCs were detected at much lower concentrations at the confluence of the unnamed stream and Barney Brook. The VOC concentration in the unnamed stream was 2.3 ppm (SW7). The concentration in Barney Brook at this location was 0.028 ppm (SW6). The concentration in Barney Brook after its confluence with the unnamed stream was 1.87 ppm (SW5). It should be noted that surface water results in SW12, located in the upgradient part of the tributary system, was 0.009 ppm, and downgradient samples at Barney Brook and Walloomsac River (South Stream) (two miles west) were approximately 0.03 ppm.

Results of the sediment screening are summarized in Table 3. Total VOC concentrations detected in the headspace of the eleven sediment headspace samples ranged from 0.009 to 16.05 ppm. Similar to surface water results, the highest total VOC concentrations were observed in samples SED-2 and SED-3, at 16.05 and 11.99 ppm, respectively. Concentrations decreased from 7 ppm at SED-4, to 2.9 ppm in the unnamed stream at Barney Brook, to 0.007 ppm in Barney Brook. Compounds detected in sediment headspace included PCE, TCE, and 1,1-DCA.

Similar to surface water results, sediment samples at locations significantly downgradient were reported to be nondetectable (that is, less than 0.004 ppm in Barney Brook and 0.29 ppm in Walloomsac River (South Stream) which does not receive surface water or ground water recharge from the site).

3.02.3.2. Shallow Soil Headspace

Results of the shallow soil screening are summarized in Table 4. Total VOC concentrations detected in the headspace of the twenty three shallow soil headspace samples ranged from 0.11 to 508.11 ppm. The highest total VOC concentrations were observed in samples SS-9, and SS-10, immediately downgradient of the toe of the former lagoon area (Figure LFI-11). Compounds detected in shallow soil headspace included toluene, TCE, 1,1-DCA, PCE, ethylbenzene, and xylene. Shallow soil headspace concentrations decreased to near background concentrations between the unnamed stream and tributary "A." However, concentrations began to increase again to the south and east of this tributary drainage swale.

VOC concentrations were the most elevated between the landfill and the unnamed stream in the marshy area. Concentrations further east and south of the unnamed stream decreased by several orders of magnitude to the low parts per million range.

3.02.3.3. Soil Vapor

Results of the soil vapor screening are summarized in Table 5. Total VOC concentrations detected in the twenty soil vapor samples in and around the landfill ranged from less than 0.004 to 294.35 ppm. The highest total VOC concentrations were observed in samples SV-9, SV-2, SV-6, SV-4, SV-3, and SV-5, along north to south survey transect number 6. Samples SV-2 and SV-3, located in the immediate vicinity of the former lagoon, exhibited detectable levels of PCE and TCE as well as degradation products 1,1-DCE, 1,1-DCA and 1,2-DCA. Samples SV-4, SV-5 and SV-6, situated in the landfill area north of the former lagoon, exhibited detectable levels of chlorinated and aromatic compounds. Sample SV-6 was situated in the immediate vicinity of the soil staging pile. VOC concentrations decreased to near background along a line situated parallel to, and west of, the initial transect (survey line number 7). VOC concentrations were observed in the northern direction approximately three hundred feet north of the access road. Near background concentrations were approached to the east of the landfill along a line corresponding to the top of the landfill slope (Figure LFI-11).

3.02.3.4. Shallow Ground Water

Results of the shallow ground water screening are summarized in Table 7. Total VOC concentrations detected in the headspace of the thirteen shallow ground water samples ranged from 0.04 to 945.49 ppm. The highest total VOC concentrations were observed in samples SGW-8, SGW-5, SGW-7, SGW-11 and SGW-9 respectively, situated in the marshy area between the former lagoon and the unnamed stream. Compounds detected in shallow ground water headspace included 1,1,-DCA, PCE, toluene, TCE, and ethylbenzene. Total VOC concentrations fell off in samples SGW-1, SGW-2 and SGW-3, situated immediately south of tributary drainage swale "A."

3.02.3.5. Monitoring Wells (existing wells)

Results of the monitoring wells screening are summarized in Table 6. Total VOC concentrations detected in the headspace of the seven ground water samples range from 0.09 to 678.69 ppm. The highest total VOC concentrations were observed in samples W-5, W-3, W-2, and W-4d, respectively, situated in the marshy area between the lagoon and the unnamed stream. Well W-4S could not be sampled. Compounds detected in ground water included 1,1-DCA, TCE, toluene, and PCE. The chemical composition of the headspace of the ground water samples collected from the permanent monitoring wells was consistent with the results of the other matrices sampled in the vicinity of the former lagoon.

Actual water level data as collected in the field is provided in Table 8 for the existing wells.

3.02.4. Conclusions

The screening survey served to verify the results obtained previously by Geraghty & Miller and to further define the area of study for the remedial investigation. Chlorinated VOCs, PCE and TCE, were the major constituents observed in and around the former lagoon, along with the degradation products of these compounds. Aromatic hydrocarbons were also detected in the northern portion of the landfill area. The VOC residues were observed at the highest concentrations in the landfill from the access road

south to the lagoon and adjacent marshy area. The concentrations of site related compounds dropped off to near background levels rapidly to the east and south, after crossing the unnamed stream and tributary system. In the westerly direction from the landfill, concentrations of near background were achieved along a transect situated one hundred feet from, and parallel to, the initial transect through the landfill. Near background concentrations were observed to the north of the landfill approximately three hundred feet north of the access road. In the southerly direction, concentrations dropped off considerably as sampling proceeded to the south of tributary swale "A," then began to increase slightly toward tributary "A." The origin of the VOCs observed to the south of tributary swale "A" is currently unknown.

Burgess Brothers Superfund Site

Woodford and Bennington, Vermont

Limited Field Investigation
Surface Water Screening Results

	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethyl benzene	Xylene	Other VOCs	Total VOCs
SAMPLE											
SW-01	<0.003	<0.062	<0.140	<0.169	<0.001	0.014	0.010	<0.012	<0.009	<0.004	0.024
SW-02	0.074	3.090	<0.140	<0.169	3.090	0.419	19.500	<0.012	<0.009	5.764	31.937
SW-03	0.062	2.601	<0.140	<0.169	2.966	0.330	18.038	<0.012	<0.009	5.558	29.555
SW-04	<0.003	2.188	<0.140	<0.169	1.277	0.066	5.592	<0.012	<0.009	1.633	10.756
SW-05	<0.003	<0.062	<0.140	<0.169	0.369	0.044	0.972	<0.012	<0.009	0.486	1.871
SW-06	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.027	0.028
SW-07	<0.003	<0.062	<0.140	<0.169	0.515	0.005	1.134	<0.012	<0.009	0.654	2.308
SW-08	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.027	0.027
SW-09	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.123	0.123
SW-10	<0.003	<0.062	<0.140	<0.169	<0.001	0.014	0.012	<0.012	<0.009	0.006	0.032
SW-11	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.050	0.050
SW-12	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	0.009	<0.012	<0.009	<0.004	0.009

Note: All values reported in parts per million by volume

Burgess Brothers Superfund Site

Woodford and Bennington, Vermont

Limited Field Investigation
Stream Sediment Screening Results

	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethyl benzene	Xylene	Other VOCs	Total VOCs
SAMPLE											
SED-01	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	0.027	<0.012	<0.009	<0.004	0.027
SED-02	<0.003	2.079	<0.140	<0.169	2.554	<0.004	7.554	<0.012	<0.009	3.870	16.057
SED-03	<0.003	3.226	<0.140	<0.169	1.895	<0.004	2.959	<0.012	<0.009	3.916	11.995
SED-04	<0.003	<0.062	<0.140	<0.169	1.267	<0.004	5.100	<0.012	<0.009	0.641	7.007
SED-05	<0.003	<0.062	<0.140	<0.169	0.107	<0.004	0.313	<0.012	<0.009	0.090	0.511
SED-06	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.007	0.007
SED-07	<0.003	0.146	<0.140	<0.169	0.544	<0.004	1.679	<0.012	<0.009	0.599	2.967
SED-08	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	<0.004	<0.004
SED-09	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	0.012	<0.012	<0.009	0.115	0.127
SED-10	<0.003	0.201	<0.140	<0.169	<0.001	<0.004	0.010	<0.012	<0.009	0.184	0.294
SED-11	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.069	0.069

Note: All values reported in parts per million by volume

Burgess Brothers Superfund Site

Woodford and Bennington, Vermont

Limited Field Investigation
Shallow Soil Headspace Screening Results

	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethyl benzene	Xylene	Other VOCs	Total VOCs
SAMPLE											
SS-01	<0.003	<0.062	<0.140	<0.169	0.003	<0.004	0.053	0.065	<0.009	<0.004	0.121
SS-02	<0.003	0.133	<0.140	<0.169	0.002	<0.004	0.028	<0.012	<0.009	0.009	0.172
SS-03	<0.003	0.146	<0.140	<0.169	<0.001	0.018	0.081	<0.012	<0.009	0.023	0.267
SS-04	<0.003	<0.062	<0.140	<0.169	0.029	0.014	0.496	0.067	<0.009	0.084	0.690
SS-05	<0.003	<0.062	<0.140	<0.169	0.007	<0.004	0.080	<0.012	<0.009	0.030	0.117
SS-06	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	0.064	<0.012	<0.009	0.052	0.116
SS-07	<0.003	<0.062	<0.140	<0.169	0.101	0.032	0.156	0.016	<0.009	0.132	0.436
SS-08	<0.003	0.771	<0.140	<0.169	0.350	0.126	0.099	<0.012	<0.009	4.682	6.029
SS-09	<0.003	<0.062	<0.140	<0.169	25.956	70.812	<0.002	10.785	2.082	398.480	508.116
SS-10	0.752	24.483	<0.140	<0.169	1.195	<0.004	3.044	3.398	<0.009	20.334	53.205
SS-11	<0.003	<0.062	<0.140	<0.169	0.023	0.054	0.170	<0.012	<0.009	<0.004	0.247
SS-12	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	0.001	<0.012	<0.009	0.015	0.016
SS-13	<0.003	<0.062	<0.140	<0.169	0.003	<0.004	1.616	<0.012	<0.009	0.329	1.948
SS-14	<0.003	1.052	<0.140	<0.169	0.566	0.013	1.160	<0.012	<0.009	0.691	3.482
SS-15	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	<0.004	<0.004
SS-16	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	<0.004	<0.004
SS-17	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.499	0.499
SS-18	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	1.349	<0.012	<0.009	0.029	1.378
SS-18 RE	<0.003	0.147	<0.140	<0.169	<0.001	<0.004	4.653	<0.012	<0.009	0.040	4.840
SS-19	<0.003	<0.062	<0.140	<0.169	0.002	0.041	<0.002	<0.012	<0.009	0.315	0.359
SS-20	<0.003	<0.062	<0.140	<0.169	<0.001	0.082	8.005	<0.012	<0.009	0.036	8.124
SS-21	<0.003	<0.062	<0.140	<0.169	<0.001	0.255	2.458	<0.012	<0.009	<0.004	2.713
SS-22	<0.003	<0.062	<0.140	<0.169	0.013	<0.004	0.292	<0.012	<0.009	0.390	0.695
SS-23	<0.003	<0.062	<0.140	<0.169	0.033	0.011	0.279	<0.012	<0.009	1.174	1.497

Note: All values reported in parts per million by volume

Burgess Brothers Superfund Site

Woodford and Bennington, Vermont

Limited Field Investigation
Soil Vapor Sampling Results

	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethyl benzene	Xylene	Other VOCs	Total VOCs
SAMPLE											
SV-01	<0.003	<0.062	<0.14	<0.169	2.449	<0.004	11.943	<0.012	<0.009	1.925	16.317
SV-02	1.385	3.761	145.452	<0.169	7.519	<0.004	80.450	<0.012	<0.009	<0.004	238.567
SV-03	0.029	0.726	34.224	<0.169	6.901	<0.004	35.347	<0.012	<0.009	<0.004	77.227
SV-04	<0.003	25.771	98.394	16.623	0.953	<0.004	4.705	0.108	<0.009	13.232	159.786
SV-05	<0.003	18.039	17.711	<0.169	0.060	13.174	0.396	0.384	<0.009	0.235	50.000
SV-06	2.050	14.173	105.524	24.193	0.855	1.112	2.739	7.041	7.113	9.447	174.247
SV-07	<0.003	<0.062	<0.140	<0.169	<0.001	0.021	<0.002	<0.012	<0.009	0.033	0.053
SV-08	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.049	0.049
SV-09	<0.003	244.850	<0.140	<0.169	0.218	<0.004	<0.002	<0.012	<0.009	49.284	294.353
SV-10	0.012	<0.062	<0.140	<0.169	0.007	0.042	<0.002	<0.012	<0.009	0.122	0.183
SV-11	<0.003	<0.062	<0.140	<0.169	<0.001	0.018	<0.002	<0.012	<0.009	0.022	0.040
SV-12	<0.003	<0.062	<0.140	<0.169	<0.001	0.011	<0.002	<0.012	<0.009	0.032	0.043
SV-13	<0.003	<0.062	<0.140	<0.169	2.307	0.020	0.074	0.046	<0.009	<0.004	2.447
SV-14	<0.003	<0.062	<0.140	<0.169	0.025	<0.004	<0.002	0.054	<0.009	<0.004	0.079
SV-15	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	0.071	0.047	0.004	0.122
SV-16	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	<0.004	<0.004
SV-17	<0.003	1.022	<0.140	<0.169	1.936	0.016	14.830	<0.012	<0.009	0.052	17.857
SV-18	<0.003	<0.062	<0.140	<0.169	3.167	<0.004	22.168	<0.012	<0.009	0.331	25.666
SV-19	<0.003	<0.062	<0.140	<0.169	0.004	<0.004	<0.002	<0.012	<0.009	0.060	0.064
SV-20	<0.003	<0.062	<0.140	<0.169	0.015	<0.004	0.092	<0.012	<0.009	0.037	0.145

Note: All values reported in parts per million by volume

Burgess Brothers Superfund Site

Woodford and Bennington, Vermont

Limited Field Investigation
Shallow Groundwater Screening Results

	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethyl benzene	Xylene	Other VOCs	Total VOCs
SAMPLE											
SGW-01	<0.003	0.190	<0.140	<0.169	<0.001	<0.004	0.094	<0.012	<0.009	0.169	0.453
SGW-02	<0.003	<0.062	<0.140	<0.169	0.007	<0.004	0.191	0.063	<0.009	<0.004	0.262
SGW-03	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.111	0.111
SGW-04	<0.003	<0.062	<0.140	<0.169	<0.001	0.181	0.020	<0.012	<0.009	0.064	0.265
SGW-05	<0.003	180.415	<0.140	<0.169	2.266	3.294	3.370	0.564	<0.009	74.466	264.375
SGW-06	<0.003	3.217	<0.140	<0.169	0.003	<0.004	0.021	<0.012	<0.009	0.460	3.700
SGW-07	<0.003	96.524	<0.140	<0.169	<0.001	24.290	0.479	20.652	<0.009	103.070	245.016
SGW-08	<0.003	476.816	<0.140	<0.169	38.339	51.051	151.152	1.040	<0.009	227.101	945.499
SGW-09	<0.003	<0.062	<0.140	<0.169	8.652	<0.004	104.830	<0.012	<0.009	10.861	124.343
SGW-11	<0.003	38.336	<0.140	<0.169	<0.001	5.290	<0.002	<0.012	<0.009	160.550	204.177
SGW-12	<0.003	<0.062	<0.140	<0.169	2.204	<0.004	6.247	<0.012	<0.009	0.781	9.233
SGW-13	<0.003	<0.062	<0.140	<0.169	<0.001	<0.004	<0.002	<0.012	<0.009	0.043	0.043
SGW-14	<0.003	<0.062	<0.140	<0.169	0.006	<0.004	<0.002	<0.012	<0.009	0.042	0.048

Note: All values reported in parts per million by volume

Burgess Brothers Superfund Site

Woodford and Bennington, Vermont

Limited Field Investigation
Ground Water Screening Results

	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethyl benzene	Xylene	Other VOCs	Total VOCs
SAMPLE											
W-01	<0.003	<0.062	<0.140	<0.169	0.030	<0.004	0.228	<0.012	<0.009	0.073	0.331
W-02	<0.003	<0.062	<0.140	<0.169	20.600	<0.004	170.580	<0.012	<0.009	115.233	306.404
W-03	<0.003	3.606	<0.140	<0.169	21.256	1.317	579.536	<0.012	<0.009	9.667	615.382
W-05	<0.003	37.692	<0.140	<0.169	61.796	24.702	402.172	<0.012	<0.009	152.329	678.691
W-40	<0.003	<0.062	<0.140	<0.169	29.346	<0.004	146.109	<0.012	<0.009	5.057	180.512
W-60	<0.003	0.075	<0.140	<0.169	0.038	0.040	0.255	0.042	<0.009	0.018	0.467
W-6S	<0.003	<0.062	<0.140	<0.169	0.001	0.017	0.021	0.056	<0.009	<0.004	0.095

Note: All values are presented in parts per million by volume

CALIBRATION CALCULATION

Presented below are the steps taken to quantify the results for soil gas samples. A linear regression was performed to develop and equation relating peak area to sample concentration. For toluene, continuing calibration data was used to develop the calibration equation. Peak areas (X) and standard concentrations (Y) used are as follows:

X	Y
0	0
1.3	0.1
2.7	0.2
6.4	0.5

$\hat{Y} = B_o + B_1X$, where $\hat{Y}$ = sample concentration, B_o = Y intercept, B_1 = slope, n = number of observations

$$B_1 = \frac{\Sigma XY - (\Sigma X)(\Sigma Y)/n}{\Sigma X^2 - (\Sigma X)^2/n}$$

$B_o = \overline{Y} - B_1\overline{X}$, where $\overline{Y}$ = mean Y, $\overline{X}$ = mean X

The resulting calibration equation is, $\hat{Y} = -0.0032 + 0.078\ (X)$

Due to the negative result obtained for B_o in this instance, the least squares regression was performed a second time with the Y-intercept (B_o) set at 0. The calibration equation obtained with $B_o = 0$ is as follows:

$$\hat{Y} = 0 + 0.0775\ (X)$$

According to H.M. Wadsworth (1990), this method is acceptable in cases where X = 0 is included in the data set and when X = 0, Y = 0.

Based on review of calibration data, retention time windows were established for each calibrant standard. When a sample peak fell within a retention time window prescribed for a calibrant standard, the peak area for the sample was placed into the corresponding calibration equation for quantification.

CCC:kah\82:11

Appendix 14

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-1
TE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-1': Brown to orange brown, silty fine to coarse SAND, some roots (FILL). Sample 0'-2' PID 21.6, 24.0ppm @ 8:50.
1	1'-4': Orange to brown, dry to moist, silty fine to coarse SAND. Becomes cobbly @ 2'.
2	
3	
4	4'-5': Tan to light gray, silty fine SAND, some gravel, cobbles. Sample 4'-5' PID 68ppm, 70ppm @ 9:00.
5	No water in pit.
	BOTTOM OF PIT @ 5'
6	
7	Took 1 sample for metals analysis 0'-5' @ 9:25.
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID 0ppm @ 9:45.
Miniram 0.28.
Background PID 0.11ppm @ 8:50.

TEST PIT PLOT PLAN

Location Coordinates:
longitude 73-09-10
latitude 42-52-47

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-2
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'–6": Brown roots/forest mat.
	6"–2': Yellow brown to gray brown silty fine to coarse SAND, some light gray layers.
1	Sample 0'–2' PID 21.1, 20.9 @ 10:15.
2	2'–4.5': Yellow brown, silty fine to medium SAND, some gravel, cobbles.
3	
4	4.5'–5': Becomes light gray white as above.
	Sample 5'–5.5' PID 60.0, 51.9ppm @ 10:15. No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES:
PID @ 10:00 1.7ppm.
Miniram 0.24.
Took sample 0'–5' @ 10:10.
Background PID 4.0ppm @ 10:15.

TEST PIT PLOT PLAN

Location Coordinates:
longitude 73–09–10
latitude 42–52–47

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-3
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-6": Brown, rooty LOAM (forest mat).
	6"-3': Orange to brown, moist to dry, silty fine to coarse SAND, some gravel.
1	Sample 0'-1' PID 0.8ppm, 1.3ppm @ 10:35.
2	Becomes mostly orange brown, dry, silty fine to coarse SAND @ 3'
3	3'-5': Medium to fine SAND, little silt (natural soils).
	Sample 4'-5' PID 3.7, 13.8ppm @ 10:40.
4	No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: PID started @ 10:35, PID = 0.0ppm
Miniram 0.26
Took sample @ 10:50 0'-5' comp. plus MS/MSD.

TEST PIT PLOT PLAN

Location Coordinates:
longitude 73-09-09
latitude 42-52-47

Test pit locations presented on Figure 2.

TEST PIT LOG

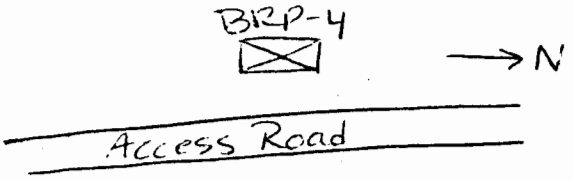
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-4
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-6": Forest mat.
1	6"-2': Brown to yellowish brown, dry, silty, fine to coarse SAND (natural soils). Sample 0'-2' PID 5.4, 12.0ppm @ 12:45.
2	2'-5': Brown, silty, fine to coarse SAND, cobbles. Sample collected @ 12:50 composite and blind duplicate.
3	
4	Sample 4'-5' PID 13.8, 8.0ppm @ 12:45. No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID 0.0ppm at 12:45.
Miniram 0.43.

TEST PIT PLOT PLAN



Location Coordinates:
longitude 73-09-09
latitude 42-52-47

Test pit locations presented on Figure 2.

TEST PIT LOG

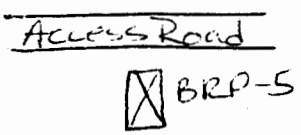
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-5
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'–2': Brown, dry to moist, silty fine to coarse SAND and gravel, some roots, some cobbles, piece of rubber, metal.
1	Sample 0'–2' PID 0.0, 0.0ppm @ 1:15.
	Change @ 2'.
2	2'–6': Beige to tan, silty fine to medium SAND to fine to medium SAND, little silt, occasional gravel, cobbles.
3	
4	Sample 4'–5' PID 0.0, 0.0ppm @ 1:20.
5	No water in pit.
6	BOTTOM OF PIT @ 6'
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID in breathing zone @ 1:15 0.0ppm.
Miniram 0.16. Miniram 0.07 @ 1:15.
Sample @ 1:30 composite 0'–5'

TEST PIT PLOT PLAN



Location Coordinates:
longitude 73-09-09
latitude 42-52-47

Test pit locations presented on Figure 2.

TEST PIT LOG

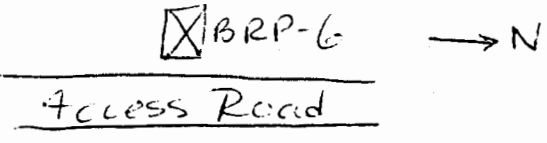
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-6
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-6": Loam and roots.
1	6"-5': Yellowish brown to orange, silty fine to coarse SAND and silty fine to medium SAND, occasional boulders, cobbles, little glass, bottles.
	Sample 0'-2' PID 0.0, 0.0ppm @ 1:50.
2	
3	
	Sample 4'-5' PID 0.0, 0.0ppm @ 1:50.
4	Light gray to white sandy layer @ 5'. No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES:
Miniram 0.35.
Background PID 0.0ppm at 1:50.
Took sample @ 14:00 composite 0'-5'
Took split equipment rinse with M&E
Backhoe bucket, bowl, spoon and shovel.

TEST PIT PLOT PLAN



Location Coordinates:
longitude 73-09-09
latitude 42-52-47

Test pit locations presented on Figure 2.

TEST PIT LOG

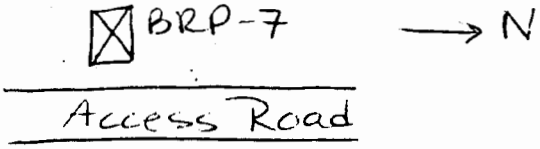
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-7
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'–3': Brown to yellowish brown, silty fine to medium SAND, some gravel (FILL).
	Sample 0'–2' PID 0.0, 0.0ppm @ 14:30.
1	
2	BOTTOM OF BROWN SOIL @ 3'
3	3'–5': Beige to light gray, dry to moist, silty fine SAND to fine sandy SILT.
4	Sample 4'–5' PID 0.0, 0.0ppm @ 14:35.
	No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID 0.0ppm @ 14:30.
Miniram 14:30 0.18
Split sample with M&E. Took sample @ 14:30.

TEST PIT PLOT PLAN



Location Coordinates:
longitude 73–09–08
latitude 42–52–47

Test pit locations presented on Figure 2.

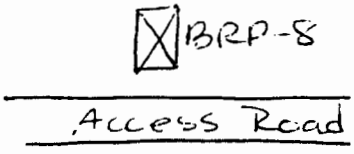
TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-8
DATE: 10/1/92
OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-3': Loose, light brown to gray, moist, silty fine SAND, some roots, occasional boulders.
	Sample 0'-2' PID 44.0, 17.0ppm @ 3:00.
1	
2	FILL down to about 3' with root horizon.
3	3'-5': Yellowish brown, silty fine to coarse SAND, occasional cobbles.
4	Sample 4'-5' PID 11.4ppm, 2.8ppm @ 3:10. No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID in breathing zone 0.0ppm @ 3:00.
Miniram 0.24.
Sample collected @ 3:15.

TEST PIT PLOT PLAN



Location Coordinates:
longitude 73-09-08
latitude 42-52-46

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-9
DATE: 10/1/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-3': Orange brown, mixed silty fine to coarse SAND, some cobbles, occasional roots.
	Sample 0'-2' PID 92, 96ppm @ 3:40.
1	FILL material with a layer of pink to white sand.
2	
3	3'-5': Beige to light gray, silty fine SAND.
4	Sample 4'-5' PID 45ppm, 30ppm @ 3:45.
	No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID 0.0ppm @ 3:40.
Miniram 0.2.
Took sample @ 13:50.
Split sample with M&E (2 volumes).

TEST PIT
PLOT PLAN

Location Coordinates:
longitude 73-09-07
latitude 42-52-46

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: BRP-10
DATE: 10/1/92
OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 45°

DEPTH (ft)	DESCRIPTION
0	0'-1': Brown, mixed, silty fine to coarse SAND and gravel, some cobbles and boulders, concrete (reinforced), glass, over burnt wood, wood and wood chunks.
1	Some dark mixed silty SAND with cinders.
	Sample 0'-2' PID 24.0ppm, 20ppm @ 16:15.
2	Beige to light gray silty fine SAND.
	FILL to 3'
3	3'-4': beige to light gray silty find SAND.
4	4'-5': Orange brown silty fine SAND, some medium to coarse SAND, gravel, boulders.
	Sample 4' PID 36ppm, 32ppm @ 16:30. No water in pit.
5	BOTTOM OF PIT @ 5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID 0.0 @ 16:15.
Miniram 0.51 - 1.41. 1.88.
Sample collected @ 16:35.

TEST PIT
PLOT PLAN

Location Coordinates:
longitude 73-09-08
latitude 42-52-46

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: TP-1
DATE: 9/29/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Cloudy, 60°

DEPTH (ft)	DESCRIPTION
0	0'-2': Roots, leaves Very loose, black, dry to moist, silty fine SAND
1	
2	
3	Sample 0'-3' PID = 1.2ppm, 1.3ppm @ 09:30
4	
5	
6	
7	
8	Becomes wet and some rounded cobbles @ 8' become more dense. Sample 8'-10' PID = 1.2ppm 09:30, 1.3ppm
9	
10	Bottom of pit @ 10.5'. Dry @ 9:15. Pit wet 10'-10.5'
11	BOTTOM OF PIT @ 10.5'
12	
13	
14	

NOTES: (Background)
0900 PID = 0.2ppm
0915 PID = 0.2ppm

TEST PIT
PLOT PLAN

Water table @ 10' in TP-1
Pit caved in at this depth.

Location Coordinates
Latitude 42-52-44
Longitude 73-08-58

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: TP-2
DATE: 9/28/92
OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Cloudy, 60°

DEPTH (ft)	DESCRIPTION
0	0'-2': Loose, gray to beige, dry, mixed silty fine SAND, plastic, rubber, hair spray, containers, oil filters (municipal waste), pipes.
1	Oily petroleum odor but no petroleum visible.
	Sample @ 0'-2' 15ppm, 14.6ppm @ 10:30.
2	
3	
4	4'-6': Batteries (A type) mixed with silty fine SAND, teething ring, pans, shoes, tin, plastic, Pledge wax, pipes, significant plastic.
5	A lot of plastic @ base.
	Sample @ 4'-5' PID 1.7ppm, 1.5ppm @ 10:45.
6	6'-8': Medium gray to yellow silty fine SAND (natural soils).
7	
	No water in pit.
8	BOTTOM OF PIT @ 8'
9	
10	
11	
12	
13	
14	

NOTES: (Background)
Pit started @ 10:30.
PID 0.6 @ 10:30.
Particulate meter 0.02.

TEST PIT PLOT PLAN

Location Coordinates
Latitude 42-52-43
Longitude 73-09-00

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: TP-3
TE: 9/29/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Cloudy, 60°

DEPTH (ft)	DESCRIPTION
0	0'-2': Loose, gray to tan, dry to moist, mixed, silty fine SAND, small pieces of plastic, roots, some burnt paper (slight pungent odor)
1	Sample 0'-2' PID 1.7ppm, 1.7ppm @ 11:10.
2	2.5': SOUTH 1' NORTH
3	3'-6': Tan to beige, moist, silty fine SAND (natural soils)
4	Sample 3'-4' 0.8ppm, 0.7ppm @ 11:20.
5	No water in pit.
6	BOTTOM OF PIT @ 6'
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID in breathing zone 0ppm @ 11:05.
Miniram 0.05.

TEST PIT
PLOT PLAN

All pits about 2'-3' wide by 8'long

Location Coordinates
Latitude 42-52-44
Longitude 73-09-01

Test pit locations presented on Figure 2.

TEST PIT LOG

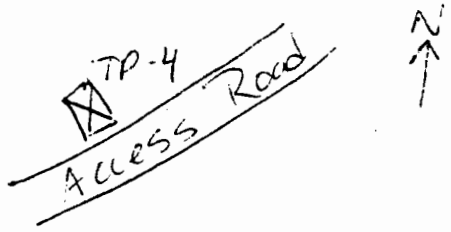
SITE: Burgess Brothers
JOB #: 5271.001
TEST PIT: TP-4
TE: 9/29/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 60°

DEPTH (ft)	DESCRIPTION
0	0'-1': Brown, moist, silty fine SANDY LOAM, little gravel
	1' NW Sample @ 0'-1' PID 0.0ppm, 0.0ppm @ 1:40. 0.5' SE
1	1'-5.5': Loose, beige to tan, dry to moist, silty fine SAND, occasional rounded cobbles.
2	
3	le of soil fine, PID 0.0, 0.0ppm @ 1:55.
4	
5	No water in pit.
	BOTTOM OF PIT @ 5.5'
6	
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID reading 0.0ppm @ 1:40.

TEST PIT
PLOT PLAN



Location Coordinates
Latitude 42-52-42
Longitude 73-09-01

Test pit locations presented on Figure 2.

TEST PIT LOG

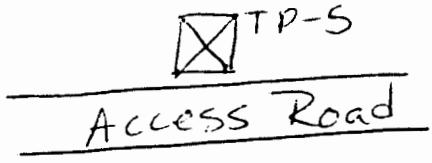
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: TP-5
TE: 9/29/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 60°

DEPTH (ft)	DESCRIPTION
0	0'-3": Loam on top
	3"-6.5': Loose, beige to tan, dry, silty fine SAND (natural soils).
1	Sample 0'-2' PID 0.0ppm, 0.0ppm @ 2:00pm.
2	
3	
4	Sample 4'-5' @ PID 0.0ppm, 0.0ppm @ 2:05.
5	
6	No water in pit.
	BOTTOM OF PIT @ 6.5'
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: Background PID 0.0ppm @ 2:10.
Miniram = 0.0

TEST PIT PLOT PLAN



Location Coordinates
Latitude 42-52-41
Longitude 73-09-01

Test pit locations presented on Figure 2.

TEST PIT LOG

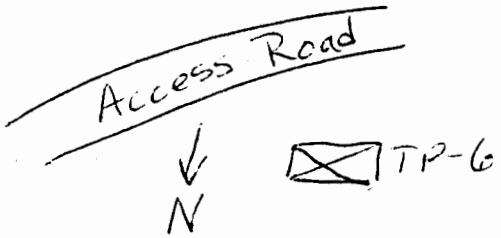
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: TP-6
TE: 9/29/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Clear, 60°

DEPTH (ft)	DESCRIPTION
0	0'-1': Loose, brown, moist to dry, fine SAND and LOAM (odorous sweet pungent odor). Sample 0'-1' @ 2:15 (check?).
1	1'-3': Tan to beige, moist to dry, silty fine SAND (natural soils).
2	2'-3': Frequent cobbles and boulders.
3	3'-6.5': Bouldery compact silty fine SAND (ablated till) Sample collected 3'-4' PID 0.0ppm, 0.0ppm @ 3:05.
4	
5	
6	No water in pit.
	BOTTOM OF PIT @ 6.5'
7	
8	
9	
10	
11	
12	
13	
14	

NOTES: PID in breathing zone 2:40 0.0ppm
Miniram 0.1
PID @ 2:45 0.0ppm in breathing zone
RGS called layer @ 3'-6' ablated till. H. Vick of M&E thought it may be fill.
Took pit a little deep until she was satisfied it was till and not fill.

TEST PIT
PLOT PLAN



Location Coordinates
Latitude 42-52-45
Longitude 73-09-02

Test pit locations presented on Figure 2.

TEST PIT LOG

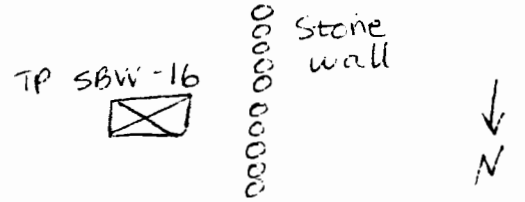
SITE: Burgess Brothers
JOB #: 5271.001
TEST PIT: SBW-16
TE: 9/30/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Cloudy, 50°

DEPTH (ft)	DESCRIPTION
0	0'-6.5': Brown, mixed, silty fine to coarse SAND, some gravel, newspaper, boulders, wood, plastic.
	PID breathing zone 1.0ppm @ 9:30.
1	Sample 0'-2' PID 2.2, 2.1 @ 9:40.
	1'-3': PID of soils in pile is 1.0 to 1.7ppm.
2	2'-3': Mixed sand, newspaper, wood, corrugated steel, compressed cardboard, burnt newspaper.
3	
4	Sample 6.5 - 7.5' PID 2.2, 2.2ppm @ 9:45.
5	(No obstructions or drums)
6	
	BOTTOM OF FILL @ 6.5'
7	6.5'-12.5': Loose, beige to tan, moist, silty fine SAND (natural soils).
8	
9	
10	
11	
12	No water in pit.
	BOTTOM OF PIT @ 12.5'
13	
14	

NOTES: Pits started @ 9:50.
Miniram 0.18 to 0.20.
Background PID 1.3ppm @ 9:40.

TEST PIT PLOT PLAN



Location Coordinates (Approximate)
Latitude 42-52-41
Longitude 73-09-01

Test pit locations presented on Figure 2.

TEST PIT LOG

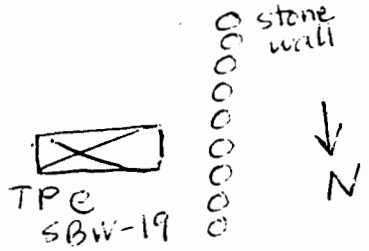
SITE: Burgess Brothers Superfund Site
JOB #: 5271.001
TEST PIT: SBW-19 TP
DATE: 9/30/92

OBG FIELD SUPERVISOR: R. Stromberg
PHOTO:
WEATHER: Cloudy, snow flurries, 50°

DEPTH (ft)	DESCRIPTION
0	0'–6': Orange to brown, dry to moist, silty fine SAND.
	Becomes mixed, with newspaper, some boulders @ 2'. (Sweet pungent trashy odor)
1	Newspaper dated 1977.
	Sample 0'–2' PID 0.8ppm, 0.1ppm @ 11:00.
2	
3	Sample 3'–4' 0.8ppm, 0.8ppm @ 11:05.
4	
5	
6	6'–7.5': Black charcoal and cinder layer mixed with SAND. Some petroleum odor.
	Sample 21.5ppm @ 10:55. PID = 22.5ppm. Miniram 0.16 @ 11:00.
7	
	BOTTOM OF FILL @ 7.5'
8	7.5'–11.5': Beige to tan, dry to moist, silty fine SAND.
9	
10	
11	No water in pit.
	BOTTOM OF PIT @ 11.5'
12	
13	
14	

NOTES: PID in breathing zone @ 10:40 1.8ppm.
Background PID 0.4ppm @ 10:45.

TEST PIT PLOT PLAN



Location Coordinates
Latitude 42-52-44
Longitude 73-09-01

Test pit locations presented on Figure 2.

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.003
TEST PIT: TP-7
DATE: 5/17/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rainy, 50°

DEPTH (ft)		DESCRIPTION
0	0'-2'	Drums with straps of steel sheeting (precrushed), electrical wiring (0%); Fine to medium sand/little silt (90%)
1		
2	2'-4'	Concrete slab, garbage bags and household trash, metal (10%); Fine to medium sand (90%)
3		
4		
5		
6	6'-8'	Sheet, Brick, Sheet metal, Old furnace metal (20%);, Sand (80%), Soil sample collected for laboratory analysis at this interval.
7		
8	8'-10'	Sheet metals, Electric range, Conduit tubing, Fiberglass insulation (20%); Sand (80%)
9		
10	10'-12'	Sheet metal, Electrical wires, Furnace firebrick and wireracks, Wood material (40%); Sand (60%), Soil sample collected for laboratory analysis at this interval.
11		
12	12'-14'	Galvanized pipe, Sheet metal, Wood material, Plastic covers, Electrical wiring, Peat/wet (60%); Sand and natural fill material (40%) -FILL-
13		Light brown/tan, fine-medium sand/little silt, damp - NATIVE SOIL -
14		BOTTOM OF PIT @ 14'

NOTES: PID Readings

0-2': 1ppm/1ppm	8'-10': 1ppm/1ppm
2'-4': 1ppm/1ppm	10'-12': 1ppm/1ppm
6'-8': 1ppm/1ppm	12'-14': 4ppm/9ppm

1. Location coordinates:
   latitude 42-52-42
   longitude 73-08-59

2. Test pit presented on Figure 2.

TP-7 facing northeast

TP-7 facing west

TEST PIT LOG

TE: Burgess Brothers Superfund Site
)B #: 5271.003
PIT: TP-8
5/14/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Drizzle, 55°

EPTH (ft)		DESCRIPTION
0	0'-2'	5 gal. DOT pails, 55 gal. drums crushed, demolition lumber, steel piping, white trash goods (appliances, washers, dryers, furnaces), roofing tar pails (5 to 8) (80%); Fine to medium sand (20%)
1		
2		
3		
4	4'-6'	Same as above with boulders (30%); sand (20%); and white goods, debris (50%), Soil sample collected for laboratory analysis at this interval.
5		
6	6'-12'	Steel waste (appliances, sheeting, pails, pipes) (70%); Wood products (lumber, plywood) (10%); Sandy silt, boulders (20%), damp; Difficult digging trench from 8'-12'due to caving in.
7		
8		
9		Soil sample collected for laboratory analysis at interval 10'-12'.
J		
11	FILL	
12	BOTTOM OF PIT @ 12'	
	NATIVE EARTH MATERIAL NOT INTERCEPTED DUE TO CAVE-IN.	
13		
14		

)TES:

PID Readings
0-2': 1ppm/1ppm
2'-4': 1ppm/8ppm
4'-6': 110ppm/160ppm
6'-8': 70ppm/100ppm
8'-12': 130ppm/110ppm

Location coordinates:
latitude 42-52-42
longitude 73-09-00

Test pit presented on Figure 2.

screening negative at 4'-12'.

1:tplg7-20.WK1

TP-8 facing southeast

TP-8 soil pile

TP-8 0-3'

TP-8 0-8'

TEST PIT LOG

TE: Burgess Brothers Superfund Site
B #: 5271.003
PIT: TP-9
5/25/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rain, 70°

PTH (ft)		DESCRIPTION
0	0'–2'	Cobbles, boulders, litle solid waster debris, fine sand
1		
2	2'–4'	Large boulders (2' in diameter), solid waste debris (25%), fine sand
3		
4	4'–6'	Fine sand, debris (lawn chair, car seat), cobbles
5		
6	6'–8'	Fine sand with some solid waste debris (25%), Soil sample collected for laboratory analysis at this interval.
7		- FILL -
8	8'–10'	Layer of red soil–typical of the bottom fill layer
	10'–12'	Native soil–fine silty sand, damp, Soil sample collected for laboratory analysis at this interval.
10		BOTTOM OF PIT @ 12'
11		
12		
13		
14		

TES: Photo taken @10'–12'
No visual signs of VOCs throughout pit.

PID Readings
0–2': 0/0
2–4': 0/0
4–6': 0/0
6–8': 0/0
8–10': 0/0

Location coordinates
latitude 42–52–41
longitude 73–09–01

t pit presented on Figure 2.

1:tplg7-20.WK1

TP-9

TEST PIT LOG

ITE: Burgess Brothers Superfund Site
OB #: 5271.003
PIT: TP-10-1
5/25/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:

WEATHER: Cloudy, Rain Showers, 60°

EPTH (ft)		DESCRIPTION
0	0'-2'	Top soil, sand, boulders
1		
2	2'-4'	Barrel cover, rags, rubber tire, mixed garbarge (10%)
		Sand (90%), Soil sample collected for laboratory analysis at this interval.
3		
4	4'-6'	Sand (95%), Red clay (5%), mixed household garbarge
5		- FILL -
6	6'-8'	Light brown/tan, damp, fine to medium sand/little silt. - NATIVE SOIL -
7		
8	8'-10'	Soil sample collected for laboratory analysis at this interval.
10		BOTTOM OF PIT @ 10'
11		
12		
13		
14		

OTES: Blind duplicate taken @2'-4' with TP-10(2'-4') sample for analysis

PID Readings
0'-2': 72ppm/56ppm
2'-4': 230ppm/150ppm
4'-6': 164ppm/198ppm
6'-8': 90ppm/110ppm
8'-10': 200ppm/200ppm

UV screening result negative at all intervals.

Location coordinates:
latitude 42-52-41
longitude 73-09-01

t pit presented on Figure 2.

TP-12 and TP-10 extension

TEST PIT LOG

TE: Burgess Brothers Superfund Site
B #: 5271.003
T PIT: TP-11
5/17/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rainy, 55°

PTH (ft)		DESCRIPTION
0	0'-3'	Dark brown/tan damp fine-sandy silt, little small-large cobbles and boulders No debris
1		
2		
3	3'-6'	Household trash in garbarge bags (10%); Sandy-silt (90%)
4		
5		
6	6'-6'6"	Thin black zone, silty sand, no odors
7	6'6"-9'	Household trash in garbarge bags mixed with horse hair (10%) Sandy-silt mixed with horse hair (90%)
8		
9	9'-10'	Gray, moist, silty fine sand, little medium sand
10	10'-10'6"	White sludge, pasty soils, Soil sample collected for laboratory analysis at interval 10'-12'.
	10'6 "-12'	Brown/tan, damp fine-medium sand
11		
12	12'-14-6'	Brown/tan, damp fine-medium sand (70%); Electrical parts/feminine deodorant cans, pink color, "Chaste" manufactured
13		by Union Carbide (30%)
14		
	14.6-16'	Intermittent layers of electrical parts (capacitors?), and white pasty material/
15		Chaste feminine deodorant cans, damp.
16		
17	17'-19'	Same as 14.6'-16', Soil sample collected for laboratory analysis at interval 17'-19'.
18		- FILL -
19		BOTTOM OF PIT @ 19'

TES Could not reach natural material, white pasty material exhibited postive UV response

D Readings
0'-2': 8.4ppm/9ppm
2'-4': 48ppm/40 ppm
4'-6': 34ppm/28ppm
6'-8': 62ppm/50ppm
8'-10': 61ppm/58 ppm
10'-12': 300ppm/280ppm
12'-14': 174ppm/162ppm
17'-19': 230ppm/200 ppm

Location coordinates:
latitude 42-52-40
longitude 73-09-01
Test pit presented on Figure 2.

Fill material dis not exhibit positive UV response other than the white pasty material.

1:tplg7-20.WK1

TP-11 soil pile

TP-11 electrical parts

TEST PIT LOG

TE: Burgess Brothers
)B #: 5271.003
'ST PIT: TP-12
5/17/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:

WEATHER: Cloudy, 55°

EPTH (ft)		DESCRIPTION	
0	0'–2'	Brown/damp fine–medium sand/little F–CS gravel and cobbles	
1			
2	2'–6'	Household trash in garbarge bags, metal strapping, lumber, chandelier (20%); Fine–medium sand/little silt (80%)	
3			
4			
5			
6	6'–8'	Lumber, steel pipes, pallets (10%)' Fine–medium sand/little silt (90%)	
7			
8	8'–10'	Household trash (10%); Fine–medium sand/little silt (90%)	
9			– FILL –
J	10'–16'	Brown, damp, fine–medium sand, well sorted	– NATURAL –
11		Soil samples collected for laboratory analysis at intervals 10'–12' and 14'–16'.	
12			
13			
14			
15			Fill or disturbed Kame sand
16		BOTTOM OF PIT @ 16'	

)TES: PID Readings

0'–2': 39ppm/24ppm	6'–8': 166ppm/168ppm	12'–14': 260ppm/260ppm
2'–4': 68ppm/74ppm	8'–10': 340ppm/460ppm	14'–16': 520ppm/440ppm
4'–6': 48ppm/56ppm	10'–12': 520ppm/300ppm	

UV screening results negative at all sampled intervals.

Location coordinates:
latitude 42–52–40
longitude 73–09–01

est pit presented on Figure 2.

6″ casing set at 18'6″ below grade and grouted

TEST PIT LOG

TE: Burgess Brothers Superfund Site
)B #: 5271.003
PIT: TP-12 extended
: 5/25/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Cloudy, Rain Showers, 60°

EPTH (ft)		DESCRIPTION	
0	0'-2'	Sand (99%), fill (1%)	
1			
2	2'-4'	Oil filter, white pasty paint, paint can, Sand (95%), Fill (5%)	
3			
4	4'-6'	Paint cans, Wood pieces (10%), sand (90%)	
5			- FILL -
6	6'-8'	Sand (99%), fill (1%), damp	- NATIVE SOIL -
7			
8		BOTTOM OF PIT @ 8'	
10			
11			
12			
13			
14			

OTES: Paint cans, rags, metal pipe, size "D" battery cells

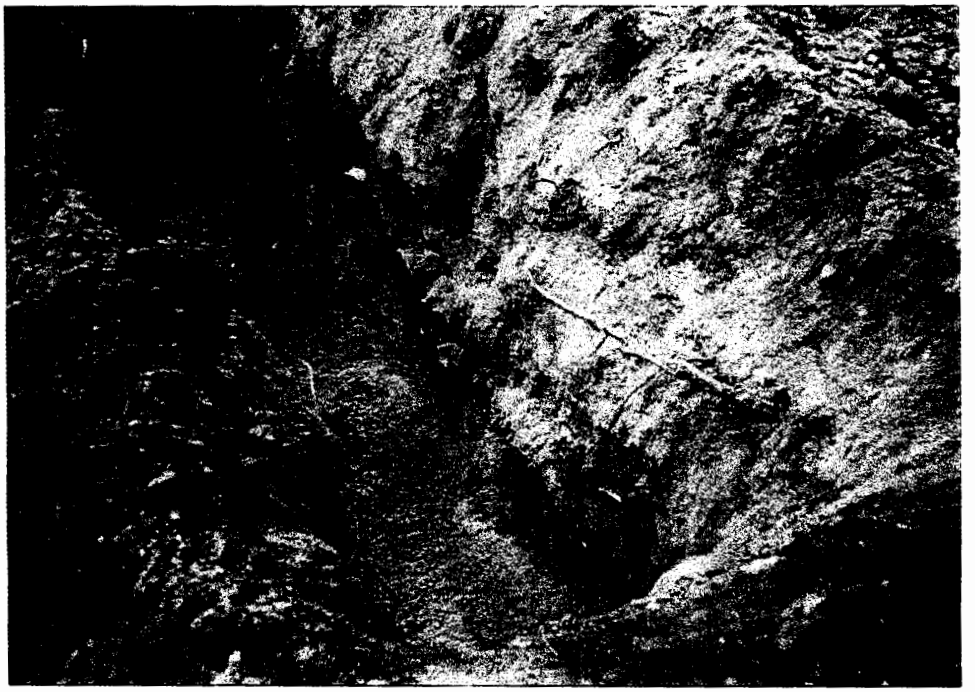
PID Readings
0'-2': 56ppm/42ppm
2'-4': 150ppm/120ppm
4'-6': 200ppm/180ppm
6'-8': 174ppm/130ppm

UV screening results negative at all sample intervals.

See TP-12 for additional notes.

No soil samples collected for laboratory analysis.

TP-12



TP-12 extension

TEST PIT LOG

TE: Burgess Brothers Superfund Site
B #: 5271.003
ST PIT: TP-13
5/16/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rain, 55°

PTH (ft)		DESCRIPTION	
0	0'-2'	5 gal. DOT cans with plastic liners containing white-grey material (70%); Brown/tan damp fine-medium sandy silt (30%), Soil sample collected for laboratory analysis at this interval.	
1			
2	2.5'-4'	Drum with Eveready size "C" batteries, wooden boxes, pallets (70%); Natural fine-medium sand/little silt, Soil sample collected for laboratory analysis at this interval.	- FILL -
3			
4	4'-6'	Native fine-medium sand/little silt, dry	- NATIVE SOIL -
5			
6		BOTTOM OF PIT @ 6'	
7			
8			
9			
11			
12			
13			
14			

TES: PID Readings
0'-2': 8.5ppm/7ppm
2'-4': 32ppm/32ppm
4'-6': 6ppm/6.2ppm
UV screening results negative at 2'-4' interval.

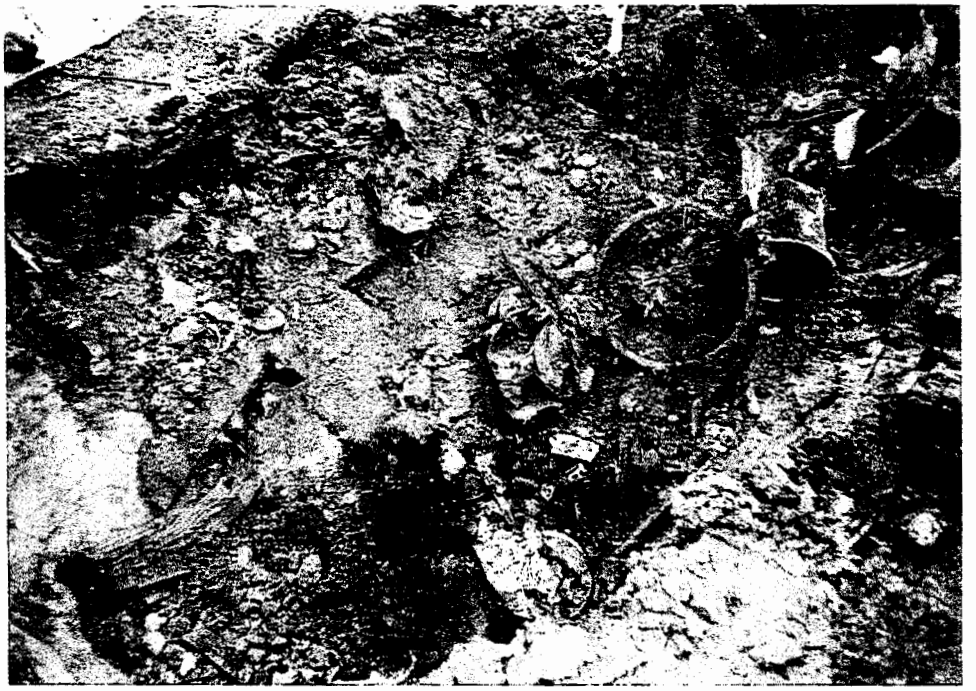
Location coordinates:
latitude 42-52-43
longitude 73-08-59

Test pit presented on Figure 2.

TP-13 soil pile

TP-13 soil pile

TP-13 soil pile



TP-13 facing east

TP-13 gray-blue, powder-like material

TP-13 batteries

TP-13 facing east

TEST PIT LOG

ITE: Burgess Brothers Superfund Site
OB #: 5271.003
EST PIT: TP-14
: 5/17/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rain, 50°

EPTH (ft)		DESCRIPTION
0	0'-2'	Aluminum pipping, wood scraps, sheet metal, electric motor, drum at 2' (10%); Sand and silt material (90%)
1		
2	2'-4'	Metal piping, sheet metal, brick, lumber, tank positioned north/south
3		
4	4'-6'	Wood, wood plaster, insulation, metal pipings, electrical wiring, glass bottle No odors
5		
6	6'-8'	
7		
8	8'-12'	Wood products, plywood, brick, sheet metal, insulation, wire, Electrical wires, junction box (60%)
9		Mixed Sand (40%), Soil sample collected for laboratory analysis at interval 10'-12'.
0		
11		-FILL-
12	12'-14'	Brown/tan, mottling present, fine-medium native sand/little silt, damp, Soil sample collected for laboratory analysis at this interval.
13		
14		BOTTOM OF PIT @14'

OTES:

PID Readings

0-2': 2ppm/2ppm	6-8': 7ppm/7ppm
2-4': 6ppm/5ppm	8-10': 30ppm/38ppm
4-6': 7ppm/8ppm	10-12': 170ppm/180ppm

UV screeing results negative at 8'-12'.

Home heating fuel tank identified at 2'-4' immediately northwest of M5 site coordinate.

Location coordinates:
latitude 42-52-42
longitude 73-08-59

Test pit presented on Figure 2.

TP-14 soil pile

TP-14 facing west

TEST PIT LOG

TE: Burgess Brothers Superfund Site
B #: 5271.003
PIT: TP-15
5/16/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rain, 50°

EPTH (ft)		DESCRIPTION
0	0'-2'	Fine-medium sand/little silt/trace cobble stones, gravel, boulders, 1-2 cans, burnt wood
1		
2	2'-4'	----- Belt, glass jars, burnt wood, ash, trash bag, misc. paper products, 1/2" steel cable, misc. metal rods, boulder 2'-4' (20%);
3		Sand (80%)
4	4'-6'	Carpet, glass bottles, plywood, rubber tire, misc. lumber, trash bags (40%); Sand (60%)
5		Garbarge smell
6	6'-8'	Truck oil filter, packed coffee, stroform cup, tail light, garbarge (5%); -FILL-
7		
8	8'-10'	Native soil, light brown/tan, fine to medium sand/little silt
9		
10	10'-12'	Native soil
11		
12		Native soil (damp)
13		BOTTOM OF PIT @ 13'
14		

OTES: PID Readings

0-2': 1.5ppm/1.7ppm	6-8': 34ppm/24ppm
2-4': 17ppm/17.4ppm	8-10': 13ppm/17ppm
4-6': 7.8ppm/8.2ppm	10-12': 7.2ppm/9.4ppm

UV screening results negative at 2'-4', 6'-8', and 8'-10', other intervals not screened.

Location coordinates:
latitude 42-52-42
longitude 73-09-01

Test pit presented on Figure 2.

No soil samples collected for laboratory analysis.

TP-15 soil pile

TEST PIT LOG

'E: Burgess Brothers
B #: 5271.003
PIT: TP-16
: 5/16/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rain, 50°

PTH (ft)		DESCRIPTION
0	0'-2'	Inner rubber tire, yellow insulation rags, plastic household trash (10%); Fine-medium sand/little silt (90%)
1		
2	2'-4'	Inner rubber tire, plastic oil filters, wood (10%); Sand (90%)
3		
4	4'-6'	Rubber tire, household trash, paint can, misc. wood and lumber, metal tire rim (10%)' Sand (90%)
5		-FILL-
6		-NATURAL-
	6'-8'	Brown/tan fine-medium sand/little silt, damp, graded cross-bedding
7		
8	8'-10'	Brown/tan fine-medium sand/little silt, damp, graded cross-bedding
9		
10	10'-12'	Brown/tan fine-medium sand/little silt, damp, graded cross-bedding
11		
12		BOTTOM OF PIT @ 12'
13		
14		

)TES:

PID Readings

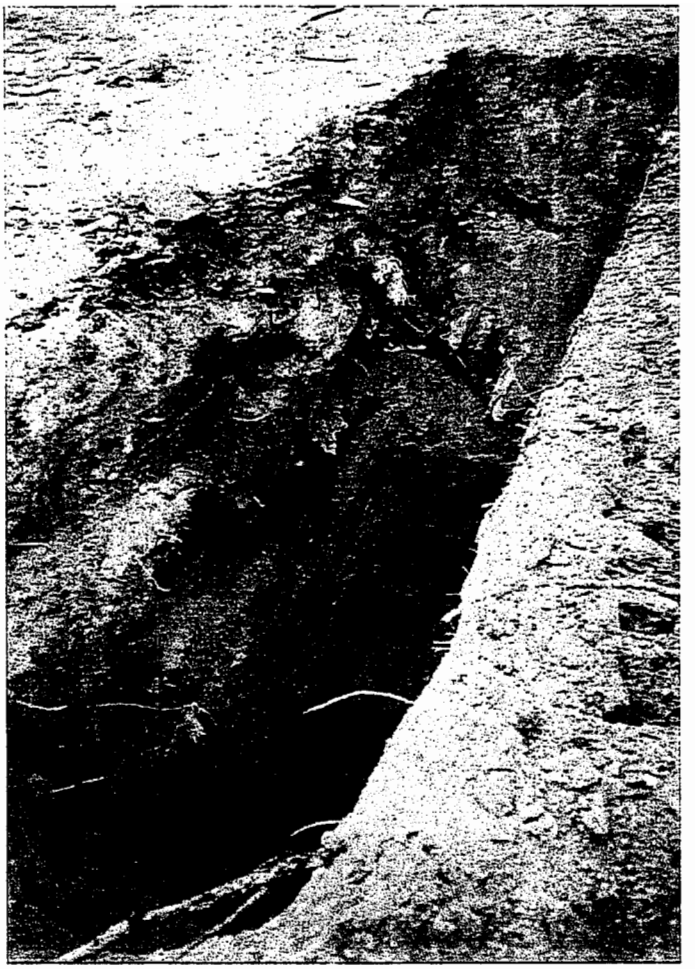
0-2': 38ppm/42ppm	6-8': 10.2ppm/10.8ppm
2-4': 34ppm/31ppm	8-10': 5ppm/5.8ppm
4-6': 20ppm/32ppm	10-12': 4.5ppm/4.8ppm

UV screening results negative at intervals 0'-2', 2'-4', 4'-6', and 6'-8'; other intervals not screened.

Location coordinates:
latitude 42-52-42
longitude 73-09-01

Test pit presented on Figure 2.

No soil samples collected for laboratory analysis.



TP-16 facing south

TP-16 soil pile

TP-16 soil pile

TEST PIT LOG

'E: Burgess Brothers Superfund Site
B #: 5271.003
" PIT: TP-17
.: 5/16/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Rain, 50°

PTH (ft)		DESCRIPTION	
0	0'-5'6"	Brown/tan, damp, fine-medium sandy-silt (70%); Newspaper (30%)	
1			
2			-FILL-
3			
4			
5	5'6"-6'6"	Dark black, sandy silt, vegatative layer, damp	-NATIVE-
6	6'6 "-9'	Tan/brown, damp, fine-medium sandy-silt	
7			
8			
9	9'-13'	Gray, moist, silt/little fine sand (well graded cross-bedding)	
10			
11			
12			
13		BOTTOM OF PIT @ 13'	
14			

)TES: PID Readings

0'-2': 2ppm/2ppm	6'-8': 13ppm/17ppm
2'-4': 10ppm/7ppm	8'-10': 8ppm/9ppm
4'-6': 24ppm/26ppm	10'-12': 6ppm/8ppm

UV screening results negative at intervals 2'-4', 4'-6', and 6-8'; other intervals not screened.

Location coordinates:
latitude 42-52-42
longitude 73-09-01

Test pit presented on Figure 2.

,o soil samples collected for laboratory analysis.

1:tplg7-20.WK1

TP-17 facing east

TEST PIT LOG

E: Burgess Brothers Superfund Site
#: 5271.003
PIT: TP-18
5/17/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Cloudy, 55°

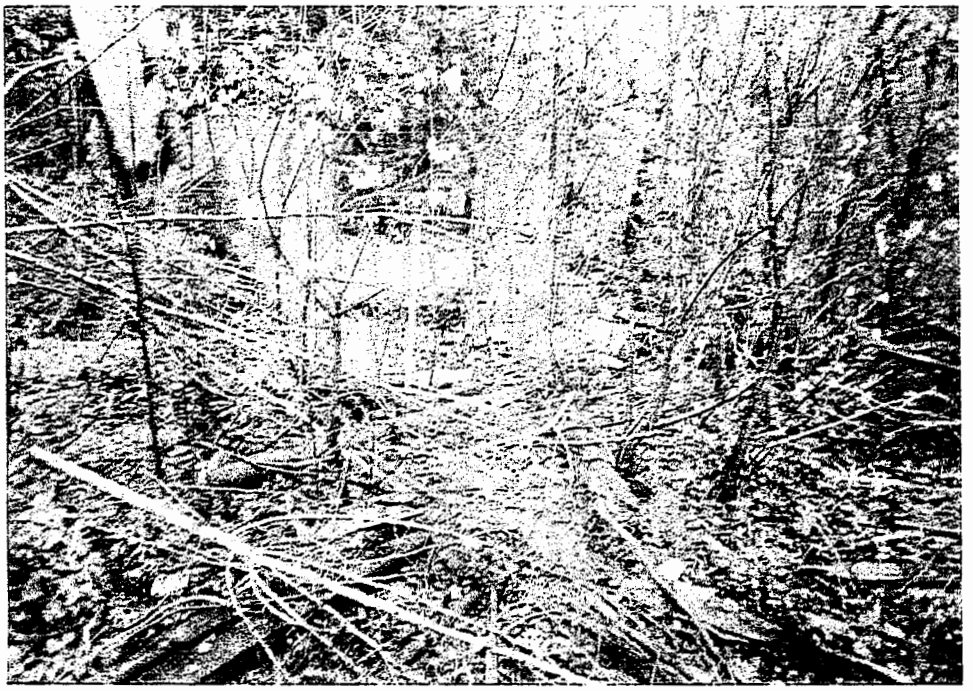
PTH (ft)	DESCRIPTION
0	0'-6" Dark brown, damp, fine-medium sand/little silt rich with vegetation
	6"-4' Tan/brown, damp, motling present, fine-medium sand/little silt
1	No fill material, native soil
2	
3	
4	BOTTOM OF PIT @ 4'
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

OTES: PID Readings
0'-2': 17ppm/17ppm
2'-4': 190ppm/150ppm (No free phase product per UV scan)
Pit extended to edge of slope where landfill materials were encountered.
Muffler/scrap steel observed near interface. 3" ID steel pipe observed at surface near M-1, coordinate stake.

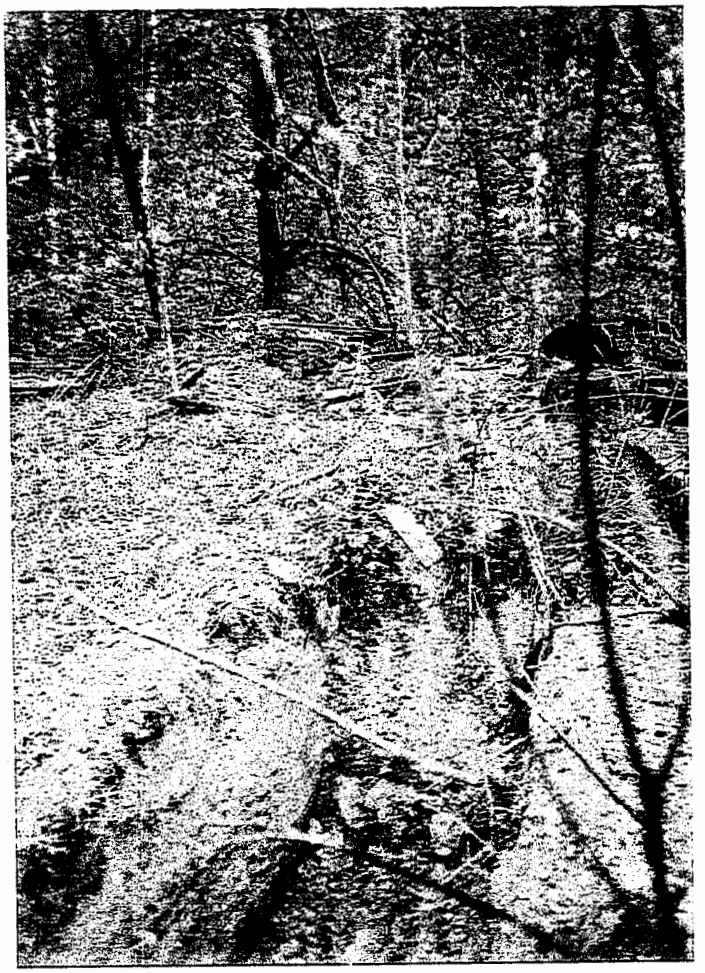
Location coordinates:
latitude 42-52-43
longitude 73-08-59

est pit presented on Figure 2.

Soil sample collected by Metcalf & Eddy at interval 2'-4'.
No samples collected by O'Brien & Gere.



TP-18 metal debris nearby



TP-18 edge of landfill

TEST PIT LOG

SITE: Burgess Brothers Superfund Site
JOB #: 5271.003
ST PIT: TP-19
TE: 5/25/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Cloudy, 60°

DEPTH (ft)		DESCRIPTION
0	0'-2'	Fine silty sand with 35% debris (trash, building materials), paper debris, odor present
1		
2	2'-6'	Roofing shingles, flashing, styrofoam, plastic sheeting, mostly waste, little soil
3		
4		
5		
6	6'-8'	Less waste, fine silty sand
7		Palette of 5 gal. roofing tar buckets
8	8'-10'	Drums at this depth to 10', crushed rusty drums, "Eastern Chemical Rensselaer NY Methyl
9		Ethyl Ketone" on 1 drum, fine silty sand, tree roots, waste (plastic sheets, pails, wood debris
10		FILL MATERIAL
11		NATIVE SOIL
12		
13		
14		
15	NOTE: Pit caves in continuously making it difficult to assess depths.	
16		
17		Soil samples collected for laboratory analysis at intervals 14'-16' and 20'-22'.
18		
19		Water sample collected for laboratory analysis from drum at 8'-10'.
20		
21		
22	BOTTOM OF PIT @ 22'	

NOTES: Hole caves in on itself continuously, however it appears landfill material goes to 10'.
May have hit drum pit on east side of trench which goes deeper.

PID Readings
0'-2': 4.2ppm/4.2ppm
2'-6': 6.9ppm/4.4ppm
6'-10': 32ppm/106ppm
10'-12': 24ppm/26ppm
12'-14': 18ppm/22ppm
14'-16': 144ppm/160ppm
20'-22': 150 ppm/190ppm

1. Location coordinates:
   latitude 42-52-42
   longitude 73-09-01

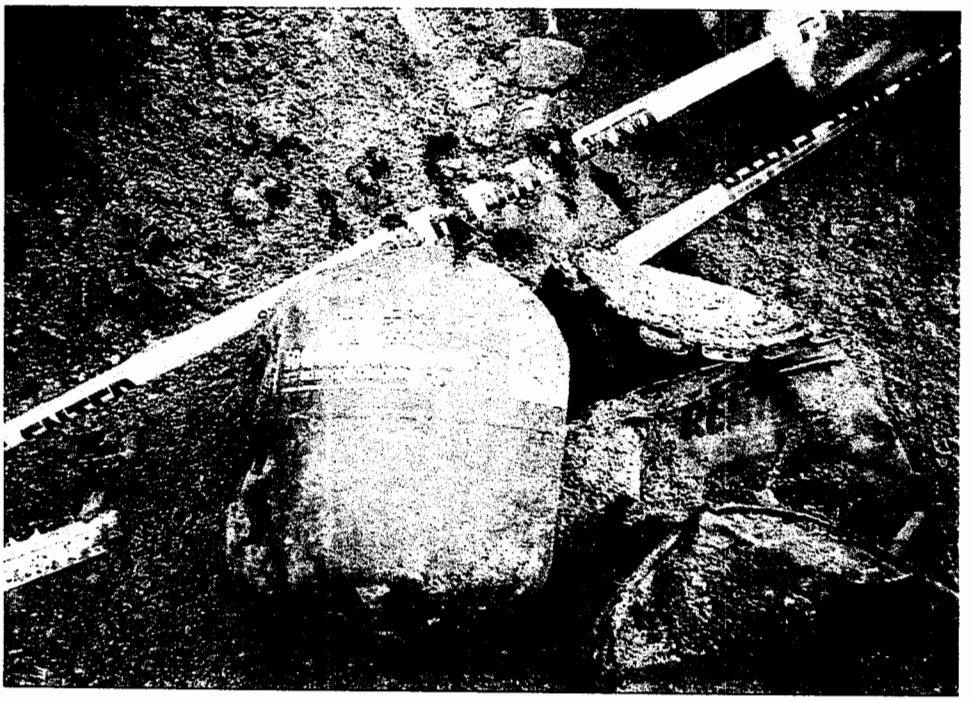
2. Test pit locations presented on Figure 2.

3. UV screening results were negative from sample intervals 6'-22',
   ...er intervals were not screened.

TP-19 drum ("MEK")

TP-19

TP-19



TP-19

TEST PIT LOG

TE: Burgess Brothers Superfund Site
)B #: 5271.003
T PIT: TP-19 extended
.E: 5/25/94

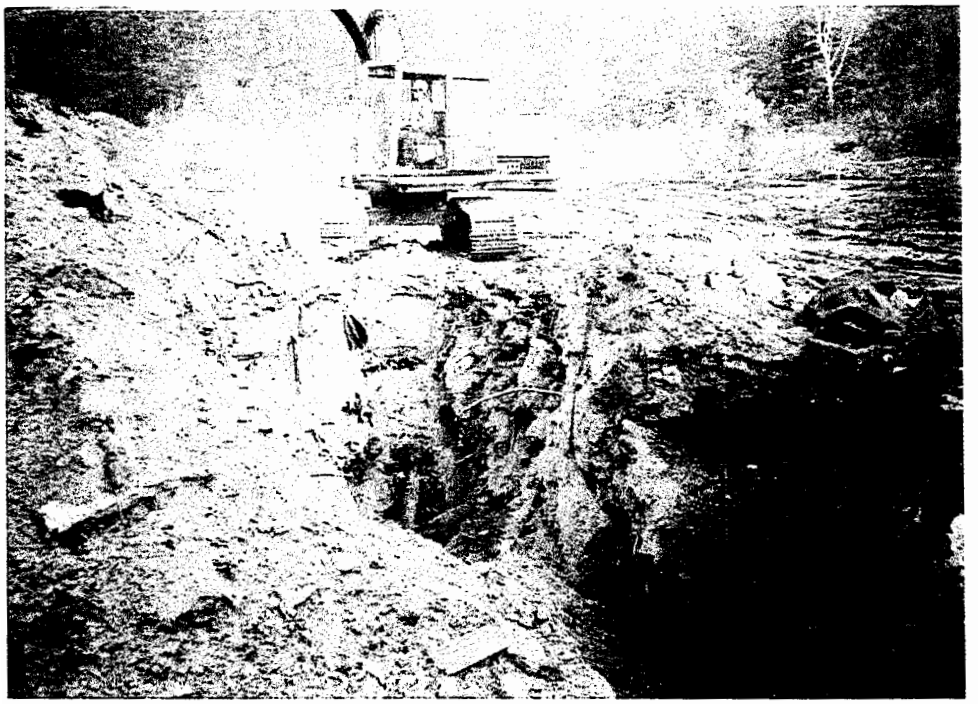
OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Cloudy, 60°

EPTH (ft)		DESCRIPTION		
0	0'-8'	Similiar to TP-19 first 1'-8'		
1				
2				
3				
4				
5				
6	6'-8'	3 gal. white plastic pail with blue crystal-like material, piece of barrel @7'-8'		
7				FILL
8	8'	Soil, fine silty sand	BOTTOM OF PIT @ 8'	NATIVE SOIL
9				
10				
11				
12				
13				
14				

OTES:
See TP-19 for additional notes.

EST PIT
LOT PLAN

31:tplg7-20.WK1



TP-19

TP-19

TEST PIT LOG

TE: Burgess Brothers Superfund Site
)B #: 5271.003
T PIT: TP-20
ATE: 5/25/94

OBG FIELD SUPERVISOR: M. Randazzo
PHOTO:
WEATHER: Cloudy, 60°

EPTH (ft)		DESCRIPTION
0	0'-2'	Fine silty sand with paper waste (5-10,000 yds paper)
1		
2	2'-6'	100% paper from 2' to 3' 90% paper continued to 6'
3		- FILL -
4		
5		
6	6'-8'	Layer of black soil/organic material @ 6' (may be ash)
		NATIVE SOIL
7		
8	8'-12'	Gray, brown, fine silty sand
9		
10	10'-16'	Light gray/light tan fine silty sand
11		
12		
13		
14		
15		
16		
17		BOTTOM OF PIT @ 16'

OTES: PID Readings:

0'-2': 5.4ppm/4.8ppm	8'-10': 26ppm/24ppm
2'-4': 18ppm/14ppm	10'-12': 11.8ppm/12.6ppm
4'-6': 7.8ppm/9.4ppm	12'-16': 11.8ppm/12.4ppm
6'-8': 30ppm/32ppm	

Location coordinates;
latitude 42-52-42
longitude 73-09-01

Test pits presened on Figure 2.

No soil samples collected for laboratory analysis.
UV screening results negative at all sample intervals,
ntervals 0'-2' and 4'-6' not screened.

TP-20 (newspapers)

Appendix 15

LIST OF DATA TABLES

BURGESS BROTHERS SUPERFUND SITE
Woodford and Bennington, Vermont

TABLE NO.	SAMPLING PROGRAM	ANALYSIS
1	Surface Soils	Volatile Organic Analysis - 8240
1A	Surface Soils	TOC Analysis
2	Surface Soils	Semi-volatile Organic Analysis - 8270
3	Surface Soils	PCB/Pesticide Organic Analysis - 8080
4	Surface Soils	Inorganic Analysis
5A	Soil Borings	Volatile Organic Analysis - 8240
5B	Soil Borings	Volatile Organic Analysis - 8240
5C	Soil Borings	TOC Analysis
6	Soil Borings	Semi-volatile Organic Analysis - 8270
7	Soil Borings	PCB/Pesticide Organic Analysis - 8080
8	Soil Borings	Inorganic Analysis
8A	Soil Borings	TOC Analysis
9	Bend in the Road Samples	Inorganic Analysis
10A	Ground Water Samples	Volatile Organic Analysis - 8240
10B	Ground Water Samples	Volatile Organic Analysis - 8240
10C	Ground Water Samples	TOC Analysis
11	Ground Water Samples	Volatile Organic Analysis - 524.2
12A	Ground Water Samples	Semi-volatile Organic Analysis - 8270

12B	Ground Water Samples	Semi-volatile Organic Analysis - 8270
13	Ground Water Samples	PCB/Pesticide Organic Analysis - 8080
14A	Ground Water Samples - Shallow Wells	Inorganic Analysis
14B	Ground Water Samples - Shallow Wells	Inorganic Analysis
14C	Ground Water Samples - Deep and Residential Wells	Inorganic Analysis
14D	Ground Water Samples - Deep and Residential Wells	Inorganic Analysis
14E	Ground Water Samples	TOC Analysis
15A	Surface Water Samples	Volatile Organic Analysis - 8240
15B	Surface Water Samples	Volatile Organic Analysis - 524.2
16	Surface Water Samples	Volatile Organic Analysis - 524.2
17	Surface Water Samples	Semi-volatile Organic Analysis - 8270
18	Surface Water Samples	PCB/Pesticide Organic Analysis - 8080
19	Surface Water Samples	Inorganic Analysis
20	Sediment Samples	Volatile Organic Analysis - ~~524.2~~
20A	Sediment Samples	TOC Analysis
21	Sediment Samples	Semi-volatile Organic Analysis - 8270
22	Sediment Samples	PCB/Pesticide Organic Analysis - 8080
23	Sediment Samples	Inorganic Analysis

23A	Sediment Samples	TOC Analysis
24	Leachate Seep Samples	Volatile Organic Analysis - 8240
24A	Leachate Seep Samples	TOC Analysis
25	Leachate Seep Samples	Semi-volatile Organic Analysis - 8270
26	Leachate Seep Samples	PCB/Pesticide Organic Analysis - 8080
27	Leachate Seep Samples	Inorganic Analysis
28	Air Samples	Volatile Analysis - TO2
29	Air Samples	Semi-volatile Analysis - TO13
30	Test Pit Samples	Volatile Organic Analysis - 8240
31	Test Pit Samples	Semi-volatile Organic Analysis - 8270
32	Test Pit Samples	PCB/Pesticide Organic Analysis - 8080
33	Test Pit Samples	Inorganic Analysis
34	Metal Detection Limits	

Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SP-17	SP-18	SP-19	SP-02	SP-03	SP-04	SP-05	SP-14
Latitude:		42-52-44	42-52-41	42-52-36	[2]	42-52-40	[2]	42-52-41	42-52-40
Longitude:		73-08-52	73-08-50	73-08-54	[2]	73-09-01	[2]	73-09-00	73-09-01
Sample ID #:		Q6722	Q6724	Q6465	Q6608	Q6716	Q6610	Q6496	Q6720
Depth of Sample:		5-7"	5-7"	4-7"	5-7"	5-7"	5-7"	5-7"	5-7"
Sample Date:		10/5/92	10/5/92	9/30/92	10/2/92	10/5/92	10/2/92	10/1/92	10/5/92
Percent Solids Results:		70%	82%	86%	90%	80%	81%	90%	93%
Compound	Detection Limit								
Chloromethane	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
Bromomethane	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
Vinyl chloride	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
Chloroethane	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
Methylene chloride	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Acetone	10	25 U	28 U	15	11 U	12 U	12 U	11 U	11 U
Carbon disulfide	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
1,1-Dichloroethene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
1,1-Dichloroethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
1,2-Dichloroethene (total)	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Chloroform	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
1,2-Dichloroethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
2-Butanone	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
1,1,1-Trichloroethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Carbon tetrachloride	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Vinyl acetate	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
Bromodichloromethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
1,2-Dichloropropane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
cis-1,3-Dichloropropene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Trichloroethene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Dibromochloromethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
1,1,2-Trichloroethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Benzene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
trans-1,3-Dichloropropene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Bromoform	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
4-Methyl-2-pentanone	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
2-Hexanone	10	14 U	12 U	12 U	11 U	12 U	12 U	11 U	11 U
Tetrachloroethene	5	7 U	6 U	6 U	6 U	13	6 U	6 U	5 U
1,1,2,2-Tetrachloroethane	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Toluene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Chlorobenzene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Ethylbenzene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Styrene	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Xylene (total)	5	7 U	6 U	6 U	6 U	6 U	6 U	6 U	5 U
Total TICs		NA	NA	NA	NA	NA	12 J	NA	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[2] Unable to survey location.

Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	SP-22	SP-22 BLDUP	SBW-13	SBW-13 BLDUP	SBW-18	SBW-21	SP-01	SBW-10
Latitude:	42-52-39	42-52-39	42-52-44	42-52-44	42-52-40	42-52-42	[2]	42-52-45
Longitude:	73-09-01	73-09-01	73-08-58	73-08-58	73-09-01	73-09-00	[2]	73-08-59
Sample ID #:	Q6484	Q6488	Q6726	Q6738	Q6718	Q6728	Q6606	Q6291
Depth of Sample:	4-7"	4-7"	5-7"	5-7"	5-7"	5-7"	5-7"	0-10"
Sample Date:	10/1/92	10/1/92	10/5/92	10/5/92	10/5/92	10/5/92	10/2/92	9/29/92
Percent Solids Results:	92%	91%	93%	95%	94%	88%	88%	86%

Compound	Detection Limit							
Chloromethane	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Bromomethane	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Vinyl chloride	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Chloroethane	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Acetone	10	9 J	11 UJ	11 U	10 U	11 U	11 U	8 J	12 U
Carbon disulfide	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
2-Butanone	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
C n tetrachloride	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
cetate	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
.odichloromethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Trichloroethene	5	13	15	5 U	5 U	5 U	6 U	6 U	6 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
4-Methyl-2-pentanone	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
2-Hexanone	10	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U
Tetrachloroethene	5	22	26	5 U	5 U	5 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	6 U	6 U	6 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	6 U	14	6 U
Total TICs		NA	NA	NA	NA	90 J	NA	82 J	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[2] Unable to survey location.

Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SP-06	SP-07	SP-08	SP-09	SP-10	SP-11	SP-12	SP-13
Latitude:		[2]	42-52-39	42-52-39	42-52-38	42-52-39	42-52-40	42-52-41	42-52-42
Longitude:		[2]	73-09-00	73-09-01	73-09-00	73-09-00	73-09-00	73-08-59	73-08-59
Sample ID #:		Q6490	Q6506	Q6510	Q6486	Q6502	Q6508	Q6492	Q6494
Depth of Sample:		5-7"	5-7"	5-7"	4-7"	5-7"	5-7"	5-7"	5-7"
Sample Date:		10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92
Percent Solids Results:		75%	26%	81%	44%	57%	57%	57%	60%
Compound	Detection Limit								
Chloromethane	10	13 U	38 U	62 U	23 U	18 U	18 U	18 U	17 U
Bromomethane	10	13 U	38 U	62 U	23 U	18 U	18 U	18 U	17 U
Vinyl chloride	10	13 U	4900 J	62 U	23 U	17 J	8	18 U	17 U
Chloroethane	10	13 U	38 U	62 U	23 U	18 U	18 U	18 U	17 U
Methylene chloride	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
Acetone	10	13 U	1100 J	76	120	280	18 U	44	220
Carbon disulfide	5	7 U	37 J	31 U	24	11	9 U	9 U	8 U
1,1-Dichloroethene	5	7 U	48 J	31 U	11 U	9 U	9 U	9 U	8 U
1,1-Dichloroethane	5	7 U	20 J	31 U	11 U	9 U	9 U	9 U	8 U
1,2-Dichloroethene (total)	5	7 U	66,000 J	31 U	11 U	11	1700	9 U	8 U
Chloroform	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
1,2-Dichloroethane	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
2-Butanone	10	13 U	390 J	62 U	36	92	18 U	18 U	67
1,1,1-Trichloroethane	5	7 U	21 J	31 U	11 U	9 U	9 U	9 U	8 U
C] tetrachloride	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
:etate	10	13 U	38 U	62 U	23 U	18 U	18 U	18 U	17 U
ь dichloromethane	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
1,2-Dichloropropane	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
cis-1,3-Dichloropropene	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
Trichloroethene	5	7 U	100 J	380	11 U	9 U	1500	9 U	8 U
Dibromochloromethane	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
1,1,2-Trichloroethane	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
Benzene	5	7 U	20 J	31 U	11 U	9 U	9 U	9 U	8 U
trans-1,3-Dichloropropene	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
Bromoform	5	7 U	19 U	31 U	11 U	9 U	9 U	9 U	8 U
4-Methyl-2-pentanone	10	13 U	68 J	62 U	23 U	18 U	18 U	18 U	17 U
2-Hexanone	10	13 U	38 U	62 U	23 U	18 U	18 U	18 U	17 U
Tetrachloroethene	5	7 U	380 J	520	11 U	9 U	5300	9 U	8 U
1,1,2,2-Tetrachloroethane	5	7 U	19 U	13 U	11 U	9 U	9 U	9 U	8 U
Toluene	5	7 U	15,000 J	13 U	11 U	1700	13	9	98
Chlorobenzene	5	7 U	19 U	13 U	11 U	9 U	9 U	9 U	8 U
Ethylbenzene	5	7 U	230 J	13 U	11 U	32	9 U	9 U	8 U
Styrene	5	7 U	19 U	13 U	11 U	9 U	9 U	9 U	8 U
Xylene (total)	5	7 U	840 J	13 U	11 U	110	9 U	9 U	8 U
Total TICs		NA	NA	58 J	19 J	NA	NA	NA	NA

NOTES:
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NA – Not Applicable.
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TICs – Tentatively Identified Compounds.
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Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SP-15	SP-16	W-04 S2	W-12 S2	SP-20	SP-21	W-07 S2	W-08 S2
Latitude:		42-52-43	42-52-39	42-52-38	42-52-42	42-52-38	42-52-36	42-52-44	42-52-40
Longitude:		73-08-59	73-08-59	73-09-01	73-08-58	73-08-57	73-08-57	73-09-02	73-09-02
Sample ID #:		Q6498	Q6504	Q6734	Q6736	Q6467	Q6500	Q6482	Q6730
Depth of Sample:		5-7"	5-7"	5-7"	5-7"	1-7"	5-7"	4-7"	5-7"
Sample Date:		10/1/92	10/1/92	10/5/92	10/5/92	9/30/92	10/1/92	10/1/92	10/5/92
Percent Solids Results:		91%	78%	39%	61%	69%	76%	86%	94%
Compound	Detection Limit								
Chloromethane	10	11 U	13 U	26 U	16 U	14 U	13 U	12 U	11 U
Bromomethane	10	11 U	13 U	26 U	16 U	14 U	13 U	12 U	11 U
Vinyl chloride	10	11 U	13 U	26 U	16 U	14 U	13 U	12 U	11 U
Chloroethane	10	11 U	13 U	26 U	16 U	14 U	13 U	12 U	11 U
Methylene chloride	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
Acetone	10	11 U	12 J	170	20 U	14 U	18	8	11
Carbon disulfide	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
1,1-Dichloroethene	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
1,1-Dichloroethane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
1,2-Dichloroethene (total)	5	5 U	6 U	13 U	8 U	7 U	16	6 U	5 U
Chloroform	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
1,2-Dichloroethane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
2-Butanone	10	11 U	13 U	44	16 U	14 U	13 U	12 U	11 U
1,1,1-Trichloroethane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
C[illegible]n tetrachloride	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
[illegible]cetate	10	11 U	13 U	26 U	16 U	14 U	13 U	12 U	11 U
[illegible]dichloromethane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
1,2-Dichloropropane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
cis-1,3-Dichloropropene	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
Trichloroethene	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
Dibromochloromethane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
1,1,2-Trichloroethane	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
Benzene	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
trans-1,3-Dichloropropene	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
Bromoform	5	5 U	6 U	13 U	8 U	7 U	6 U	6 U	5 U
4-Methyl-2-pentanone	10	11 U	13 U	26 U	16 UJ	14 U	13 U	12 U	11 U
2-Hexanone	10	11 U	13 U	26 U	16 UJ	14 U	13 U	12 U	11 U
Tetrachloroethene	5	5 U	6 U	13 U	8 UJ	7 U	6 U	6 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	6 U	13 U	8 UJ	7 U	6 U	6 U	5 U
Toluene	5	5 U	11	13 U	8 UJ	7 U	6 U	6 U	5 U
Chlorobenzene	5	5 U	6 U	13 U	8 UJ	7 U	6 U	6 U	5 U
Ethylbenzene	5	5 U	6 U	13 U	8 UJ	7 U	6 U	6 U	5 U
Styrene	5	5 U	6 U	13 U	8 UJ	7 U	6 U	6 U	5 U
Xylene (total)	5	5 U	6 U	13 U	8 UJ	7 U	6 U	6 U	5 U
Total TICs		NA	NA	NA	13 J	NA	NA	NA	53 J

NOTES:
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* Values reported in µg/l (ppb).
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Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	W-25 S2	SP-23-05	SP-24-05	SP-25-05	SP-26-05	SP-26-05 BLDUP-1-5	SP-27-05	SP-28-05
Latitude:	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-37	42-52-37
Longitude:	73-09-02	73-09-01	73-09-01	73-09-02	73-09-02	73-09-02	73-09-03	73-09-02
Sample ID #:	Q6732	T7132	T7133	T7130	T7131	T7134	T7126	T7128
Depth of Sample:	5-7"	5-7"	5-7"	5-7"	5-7"	5-7"	5-7"	5-7"
Sample Date:	10/5/92	5/18/94	5/18/94	5/18/94	5/18/94	5/18/94	5/18/94	5/18/94
Percent Solids Results:	77%	68.0%	66.1%	74.6%	51.4%	44.2%	83.1%	68.0%
Compound / Detection Limit								
Chloromethane 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
Bromomethane 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
Vinyl chloride 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
Chloroethane 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
Methylene chloride 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Acetone 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
Carbon disulfide 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
1,1-Dichloroethene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
1,1-Dichloroethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
1,2-Dichloroethene (total) 5	6 U	7 UJ	20 J	7 UJ	10 U	11 U	6 U	7 UJ
Chloroform 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
1,2-Dichloroethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
2-Butanone 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
1,1,1-Trichloroethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
C[illegible] tetrachloride 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
[illegible]etate 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
[illegible]odichloromethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
1,2-Dichloropropane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
cis-1,3-Dichloropropene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Trichloroethene 5	6 U	21 J	19 J	7 UJ	10 U	11 U	6 U	7 UJ
Dibromochloromethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
1,1,2-Trichloroethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Benzene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
trans-1,3-Dichloropropene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Bromoform 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
4-Methyl-2-pentanone 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
2-Hexanone 10	13 U	15 UJ	15 UJ	13 UJ	20 U	23 U	12 U	15 UJ
Tetrachloroethene 5	6 U	99 J	22 J	7 UJ	10 U	11 U	6 U	7 UJ
1,1,2,2-Tetrachloroethane 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Toluene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Chlorobenzene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Ethylbenzene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Styrene 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Xylene (total) 5	6 U	7 UJ	8 UJ	7 UJ	10 U	11 U	6 U	7 UJ
Total TICs	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
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* Values reported in µg/l (ppb).
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Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SP-29-05	SP-30-05	EQPBK-05	FEQBLK*	FEQBLK*	FEQBLK*	QC TR BK*	QC TR BK*
Latitude:		42-52-37	42-52-37	NA	NA	NA	NA	NA	NA
Longitude:		73-09-03	73-09-02	NA	NA	NA	NA	NA	NA
Sample ID #:		T7127	T7129	T7135	Q6469	Q6612	Q6740	Q6470	Q6513
Depth of Sample:		5-7'	5-7'	NA	NA	NA	NA	NA	NA
Sample Date:		5/18/94	5/18/94	5/18/94	9/30/92	10/2/92	10/5/92	9/30/92	10/1/92
Percent Solids Results:		63.1%	44.8%	NA	NA	NA	NA	NA	NA
Compound	Detection Limit								
Chloromethane	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	16 UJ	22 U	10 U	10 U	U	10 U	10 U	10 U
Vinyl chloride	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	16 UJ	22 U	R	R	R	R	R	R
1,1,1-Trichloroethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
C n tetrachloride	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
cetate	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
.odichloromethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	8 UJ	11 U	5 U	5	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	16 J	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	16 UJ	22 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	8 UJ	11 U	5 U	5 U	5 U	5 U	5 U	5 U
Total TICs		NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[2] Unable to survey location.

Table 1

Surface Soils Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		QC TR BK*		QC TR BK*		QC TR BK2-5		TR EQ BK-05	
Latitude:		NA		NA		NA		NA	
Longitude:		NA		NA		NA		NA	
Sample ID #:		Q6613		Q6741		T7136		T7158	
Depth of Sample:		NA		NA		NA		NA	
Sample Date:		10/2/92		10/5/92		5/18/94		5/18/94	
Percent Solids Results:		NA		NA		NA		NA	
Compound	Detection Limit								
Chloromethane	10	10	U	10	U	10	U	10	U
Bromomethane	10	10	U	10	U	10	U	10	U
Vinyl chloride	10	10	U	10	U	10	U	10	U
Chloroethane	10	10	U	10	U	10	U	10	U
Methylene chloride	5	5	U	5	U	5	U	5	U
Acetone	10	10	U	170		10	U	10	U
Carbon disulfide	5	5	U	5	U	5	U	5	U
1,1-Dichloroethene	5	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)	5	5	U	5	U	5	U	5	U
Chloroform	5	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	5	U	5	U	5	U	5	U
2-Butanone	10	R		R		R		R	
1,1,1-Trichloroethane	5	5	U	5	U	5	U	5	U
C ı tetrachloride	5	5	U	5	U	5	U	5	U
ɔetate	10	10	U	10	U	10	U	10	U
ɓ odichloromethane	5	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	5	U	5	U	5	U	5	U
Trichloroethene	5	5	U	5	U	5	U	5	U
Dibromochloromethane	5	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	5	U	5	U	5	U	5	U
Benzene	5	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	5	U	5	U	5	U	5	U
Bromoform	5	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	10	10	U	10	U	10	U	10	U
2-Hexanone	10	10	U	10	U	10	U	10	U
Tetrachloroethene	5	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	5	U	5	U	5	U	5	U
Toluene	5	5	U	5	U	5	U	5	U
Chlorobenzene	5	5	U	5	U	5	U	5	U
Ethylbenzene	5	5	U	5	U	5	U	5	U
Styrene	5	5	U	5	U	5	U	5	U
Xylene (total)	5	5	U	5	U	5	U	5	U
Total TICs		NA		NA		NA		NA	

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[2] Unable to survey location.

Table 1A

Surface Soil Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

	DESCRIPTION / LOCATION:	SP-02	SP-03	BLDUP	SBW-13	BLDUP	SBW-18	SBW-21	SBW-10
	Latitude:	[2]	42-52-40	42-52-39	42-52-44	42-52-44	42-52-40	42-52-42	42-52-45
	Longitude:	[2]	73-09-01	73-09-01	73-08-58	73-08-58	73-09-01	73-09-00	73-08-59
	Sample ID #:	Q6608	Q6716	Q6488	Q6726	Q6738	Q6718	Q6728	Q6291
	Depth of Sample:	5-7"	5-7"	4-7"	5-7"	5-7"	5-7"	5-7"	0-10"
	Sample Date:	10/2/92	10/5/92	10/1/92	10/5/92	10/5/92	10/5/92	10/5/92	9/29/92
	Percent Solids Results:	90%	80%	91%	93%	95%	94%	88%	86%
	Detection Limit								
TOC [1]	1	14,816	17,629	4554	399	350	2465	2597	5270

NOTES: Values reported in mg/kg dry weight (ppm).
NA - Not Applicable.
[1] - Subcontracted to Hudson Environmental Services.

Table 1A

Surface Soil Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

	DESCRIPTION / LOCATION:	SP-06	SP-07	SP-09	SP-10	SP-11	SP-12	SP-13	FEQBLK
	Latitude:	[2]	42-52-39	42-52-38	42-52-39	42-52-40	42-52-41	42-52-42	NA
	Longitude:	[2]	73-09-00	73-09-00	73-09-00	73-09-00	73-08-59	73-08-59	NA
	Sample ID #:	Q6490	Q6506	Q6486	Q6502	Q6508	Q6492	Q6494	Q6469
	Depth of Sample:	5-7"	5-7"	4-7"	5-7"	5-7"	5-7"	5-7"	NA
	Sample Date:	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	9/30/92
	Percent Solids Results:	75%	26%	44%	57%	57%	57%	60%	NA
	Detection Limit								
TOC [1]	1	23,424	84,876	26,323	67,684	26,600	54,011	40,939	2

Values reported in mg/kg dry weight (ppm).
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Table 1A

Surface Soil Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

	DESCRIPTION / LOCATION:	FEQBLK	FEQBLK
	Latitude:	NA	NA
	Longitude:	NA	NA
	Sample ID #:	Q6612	Q6740
	Depth of Sample:	NA	NA
	Sample Date:	10/2/92	10/5/92
	Percent Solids Results:	NA	NA
	Detection Limit		
TOC [1]	1	2	5

Values reported in mg/kg dry weight (ppm).
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Table 2

Surface Soils Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SP-02	SP-03	SP-04	SP-22	SP-22 BLDUP	SP-01	SP-06	SP-07
Latitude:	[1]	42-52-40	[1]	42-52-39	42-52-39	[1]	[1]	42-52-39
Longitude:	[1]	73-09-01	[1]	73-09-01	73-09-01	[1]	[1]	73-09-00
Sample ID #:	Q6609	Q6717	Q6611	Q6485	Q6489	Q6607	C 491	Q6507DL
Depth of Sample:	0-12"	0-12"	0-12"	0-12"	0-12"	0-10"	0-12"	0-12"
Sample Date:	10/2/92	10/5/92	10/2/92	10/1/92	10/1/92	10/2/92	10/1/92	10/1/92
Percent Solids Results:	90%	78%	82%	91%	91%	89%	55%	44%
Compound / Detection Limit								
Phenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
bis(2-Chloroethyl)ether 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2-Chlorophenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
1,3-Dichlorobenzene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
1,4-Dichlorobenzene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Benzyl alcohol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
1,2-Dichlorobenzene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2-Methylphenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
bis(2-Chloroisopropyl)ether 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
4-Methylphenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
N-Nitroso-di-n-propylamine 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Hexachloroethane 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Nitrobenzene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Isophorone 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
-Nitrophenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
,4-Dimethylphenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Benzoic acid 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
bis(2-Chloroethoxy)methane 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2,4-Dichlorophenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
1,2,4-Trichlorobenzene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Naphthalene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
4-Chloroaniline 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Hexachlorobutadiene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
4-Chloro-3-methylphenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2-Methylnaphthalene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Hexachlorocyclopentadiene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2,4,6-Trichlorophenol 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2,4,5-Trichlorophenol 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
2-Chloronaphthalene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2-Nitroaniline 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
Dimethylphthalate 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Acenaphthylene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	910 J
2,6-Dinitrotoluene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
3-Nitroaniline 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
Acenaphthene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	910 J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
[1] Unable to survey location.

Table 2

Surface Soils Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SP-02	SP-03	SP-04	SP-22	SP-22 BLDUP	SP-01	SP-06	SP-07
Latitude:	[1]	42-52-40	[1]	42-52-39	42-52-39	[1]	[1]	42-52-39
Longitude:	[1]	73-09-01	[1]	73-09-01	73-09-01	[1]	[1]	73-09-00
Sample ID #:	Q6609	Q6717	Q6611	Q6485	Q6489	Q6607	Q6491	Q6507DL
Depth of Sample:	0-12"	0-12"	0-12"	0-12"	0-12"	0-10"	0-12"	0-12"
Sample Date:	10/2/92	10/5/92	10/2/92	10/1/92	10/1/92	10/2/92	10/1/92	10/1/92
Percent Solids Results:	90%	78%	82%	91%	91%	89%	55%	44%
Compound / Detection Limit								
2,4-Dinitrophenol 1600	1800 U	2100 UJ	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
4-Nitrophenol 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
Dibenzofuran 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
2,4-Dinitrotoluene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Diethylphthalate 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
4-Chlorophenyl-phenylether 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Fluorene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
4-Nitroaniline 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
4,6-Dinitro-2-methylphenol 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
N-Nitrosodiphenylamine 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
4-Bromophenyl-phenylether 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Hexachlorobenzene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Pentachlorophenol 1600	1800 U	2100 U	2000 U	1800 U	1800 U	1800 U	3000 U	38,000 U
Phenanthrene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	14,000
Anthracene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	1500 J
Di-n-butylphthalate 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Fluoranthene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	12,000
Pyrene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	12,000
Butylbenzylphthalate 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
3,3'-Dichlorobenzidine 660	730 U	850 U	800 U	730 U	730 U	740 U	1200 U	15,000 U
Benzo(a)anthracene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	4900 J
Chrysene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	6100 J
bis(2-Ethylhexyl)phthalate 330	370 U	750 U	400 U	370 U	370 U	370 U	610 U	7600 U
Di-n-octylphthalate 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Benzo(b)fluoranthene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	6700 J
Benzo(k)fluoranthene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	4900 J
Benzo(a)pyrene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	4600 J
Indeno(1,2,3-cd)pyrene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	3300 J
Dibenz(a,h)anthracene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Benzo(g,h,i)perylene 330	370 U	420 U	400 U	370 U	370 U	370 U	610 U	7600 U
Total TICs	2520 J	2850 J	7280 J	3130 J	4500 J	3270 J	14310 J	9200 J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 2

Surface Soils Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SP-09	SP-10	SP-13	FEQBLK*	FEQBLK*
Latitude:	42-52-38	42-52-39	42-52-42	NA	NA
Longitude:	73-09-00	73-09-00	73-08-59	NA	NA
Sample ID #:	Q6487	Q6503	Q6495	Q6469	Q6612
Depth of Sample:	0-12"	0-12"	0-12"	NA	NA
Sample Date:	10/1/92	10/1/92	10/1/92	9/30/92	10/2/92
Percent Solids Results:	63%	51%	63%	NA	NA

Compound	Detection Limit									
Phenol	330	530	U	650	U	530	U	10	U	10 UJ
bis(2-Chloroethyl)ether	330	530	U	650	U	530	U	10	U	10 U
2-Chlorophenol	330	530	U	650	U	530	U	10	U	10 UJ
1,3-Dichlorobenzene	330	530	U	650	U	530	U	10	U	10 U
1,4-Dichlorobenzene	330	530	U	650	U	530	U	10	U	10 U
Benzyl alcohol	330	530	U	650	U	530	U	10	U	10 UJ
1,2-Dichlorobenzene	330	530	U	650	U	530	U	10	U	10 U
2-Methylphenol	330	530	U	650	U	530	U	10	U	10 UJ
bis(2-Chloroisopropyl)ether	330	530	U	650	U	530	U	10	U	10 U
4-Methylphenol	330	530	U	650	U	530	U	10	U	10 UJ
N-Nitroso-di-n-propylamine	330	530	U	650	U	530	U	10	U	10 U
Hexachloroethane	330	530	U	650	U	530	U	10	U	10 U
Nitrobenzene	330	530	U	650	U	530	U	10	U	10 U
Isophorone	330	530	U	650	U	530	U	10	U	10 U
:-Nitrophenol	330	530	U	650	U	530	U	10	U	10 UJ
:,4-Dimethylphenol	330	530	U	650	U	530	U	10	U	10 UJ
Benzoic acid	1600	2600	U	3300	U	2600	U	50	U	50 UJ
bis(2-Chloroethoxy)methane	330	530	U	650	U	530	U	10	U	10 U
2,4-Dichlorophenol	330	530	U	650	U	530	U	10	U	10 UJ
1,2,4-Trichlorobenzene	330	530	U	650	U	530	U	10	U	10 U
Naphthalene	330	530	U	650	U	530	U	10	U	10 U
4-Chloroaniline	330	530	U	650	U	530	U	10	U	10 U
Hexachlorobutadiene	330	530	U	650	U	530	U	9	U	9 U
4-Chloro-3-methylphenol	330	530	U	650	U	530	U	10	U	10 UJ
2-Methylnaphthalene	330	530	U	650	U	530	U	10	U	10 U
Hexachlorocyclopentadiene	330	530	U	650	U	530	U	9	U	9 U
2,4,6-Trichlorophenol	330	530	U	650	U	530	U	10	U	10 UJ
2,4,5-Trichlorophenol	1600	2600	U	3300	U	2600	U	50	U	50 UJ
2-Chloronaphthalene	330	530	U	650	U	530	U	10	U	10 U
2-Nitroaniline	1600	2600	U	3300	U	2600	U	50	U	50 U
Dimethylphthalate	330	530	U	650	U	530	U	10	U	10 U
Acenaphthylene	330	530	U	650	U	530	U	10	U	10 U
2,6-Dinitrotoluene	330	530	U	650	U	530	U	10	U	10 U
3-Nitroaniline	1600	2600	U	3300	U	2600	U	50	U	50 U
Acenaphthene	330	530	U	650	U	530	U	10	U	10 U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
[1] Unable to survey location.

Table 2

Surface Soils Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-09		SP-10		SP-13		FEQBLK*		FEQBLK*	
Latitude:		42-52-38		42-52-39		42-52-42		NA		NA	
Longitude:		73-09-00		73-09-00		73-08-59		NA		NA	
Sample ID #:		Q6487		Q6503		Q6495		Q6469		Q6612	
Depth of Sample:		0-12"		0-12"		0-12"		NA		NA	
Sample Date:		10/1/92		10/1/92		10/1/92		9/30/92		10/2/92	
Percent Solids Results:		63%		51%		63%		NA		NA	
Compound	Detection Limit										
2,4-Dinitrophenol	1600	2600	U	3300	U	2600	U	50	U	50	UJ
4-Nitrophenol	1600	2600	U	3300	U	2600	U	50	U	50	UJ
Dibenzofuran	330	530	U	650	U	530	U	10	U	10	U
2,4-Dinitrotoluene	330	530	U	650	U	530	U	10	U	10	U
Diethylphthalate	330	530	U	650	U	530	U	10	U	10	U
4-Chlorophenyl-phenylether	330	530	U	650	U	530	U	10	U	10	U
Fluorene	330	530	U	650	U	530	U	10	U	10	U
4-Nitroaniline	1600	2600	U	3300	U	2600	U	50	U	50	U
4,6-Dinitro-2-methylphenol	1600	2600	U	3300	U	2600	U	50	U	50	UJ
N-Nitrosodiphenylamine	330	530	U	650	U	530	U	10	U	10	U
4-Bromophenyl-phenylether	330	530	U	650	U	530	U	10	U	10	U
Hexachlorobenzene	330	530	U	650	U	530	U	10	U	10	U
Pentachlorophenol	1600	2600	U	3300	U	2600	U	25	U	25	UJ
Phenanthrene	330	530	U	650	U	530	U	10	U	10	U
Anthracene	330	530	U	650	U	530	U	10	U	10	U
Di-n-butylphthalate	330	530	U	650	U	530	U	10	U	10	U
Fluoranthene	330	530	U	650	U	530	U	10	U	10	U
Pyrene	330	530	U	650	U	530	U	10	U	10	U
Butylbenzylphthalate	330	530	U	650	U	530	U	10	U	10	U
3,3'-Dichlorobenzidine	660	1000	U	1300	U	1000	U	20	U	20	U
Benzo(a)anthracene	330	530	U	650	U	530	U	10	U	10	U
Chrysene	330	530	U	650	U	530	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	330	530	U	650	U	530	U	10	U	10	U
Di-n-octylphthalate	330	530	U	650	U	530	U	10	U	10	U
Benzo(b)fluoranthene	330	530	U	650	U	530	U	10	U	10	U
Benzo(k)fluoranthene	330	530	U	650	U	530	U	10	U	10	U
Benzo(a)pyrene	330	530	U	650	U	530	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	330	530	U	650	U	530	U	10	U	10	U
Dibenz(a,h)anthracene	330	530	U	650	U	530	U	10	U	10	U
Benzo(g,h,i)perylene	330	530	U	650	U	530	U	10	U	10	U
Total TICs		8480	J	7630	J	5410	J	28	J	38	J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
[1] Unable to survey location.

Table 3

Surface Soils PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-02	SP-03	SP-04	SP-22	SP-22 BLDUP	SP-01	SP-06	SP-07
Latitude:		[1]	42-52-40	[1]	42-52-39	42-52-39	[1]	[1]	42-52-39
Longitude:		[1]	73-09-01	[1]	73-09-01	73-09-01	[1]	[1]	73-09-00
Sample ID #:		Q6609	Q6717	Q6611	Q6485	Q6489	Q6607	Q6491	Q6507
Depth of Sample:		0-12"	0-12"	0-12"	0-12"	0-12"	0-10"	0-12"	0-12"
Sample Date:		10/2/92	10/5/92	10/2/92	10/1/92	10/1/92	10/2/92	10/1/92	10/1/92
Percent Solids Results:		90%	78%	82%	91%	91%	89%	55%	44%
Compound	Detection Limit								
alpha-BHC	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
gamma-BHC	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
beta-BHC	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
Heptachlor	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
delta-BHC	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
Aldrin	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
Heptachlor epoxide	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
Endosulfan I	8.0	9.0 U	10.0 U	9.0 U	9.0 U	9.0 U	9.0 U	15.0 U	18.0 U
4,4'-DDE	16.0	18.0 U	62.0	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
Dieldrin	16.0	18.0 U	10.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
Endrin	16.0	18.0 U	10.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
4,4'-DDD	16.0	18.0 U	10.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
Endosulfan II	16.0	18.0 U	10.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
4,4'-DDT	16.0	18.0 U	20.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
ndosulfan sulfate	16.0	18.0 U	20.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
ndrin aldehyde	16.0	R	R	R	R	R	R	R	R
Methoxychlor	80.0	90.0 U	100.0 U	90.0 U	90.0 U	90.0 U	90.0 U	150.0 U	180.0 U
Endrin ketone	16.0	18.0 U	20.0 U	18.0 U	18.0 U	18.0 U	18.0 U	30.0 U	36.0 U
Chlordane	80.0	90.0 U	100.0 U	90.0 U	90.0 U	90.0 U	90.0 U	150.0 U	180.0 U
Toxaphene	160.0	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U
PCB-1221	**	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U
PCB-1232	**	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U
PCB-1016/1242	**	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U
PCB-1248	**	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U
PCB-1254	**	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U
PCB-1260	**	180.0 U	200.0 U	180.0 U	180.0 U	180.0 U	180.0 U	300.0 U	360.0 U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** The Detection Limit for the total PCBs is 160.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.
[1] Unable to survey location.

Table 3

Surface Soils PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-09		SP-10		SP-13		FEQBLK*		FEQBLK*	
Latitude:		42-52-38		42-52-39		42-52-42		NA		NA	
Longitude:		73-09-00		73-09-00		73-08-59		NA		NA	
Sample ID #:		Q6487		Q6503		Q6495		Q6469		Q6612	
Depth of Sample:		0-12"		0-12"		0-12"		NA		NA	
Sample Date:		10/1/92		10/1/92		10/1/92		9/30/92		10/2/92	
Percent Solids Results:		63%		51%		63%		NA		NA	
Compound	Detection Limit										
alpha-BHC	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
gamma-BHC	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
beta-BHC	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
Heptachlor	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
delta-BHC	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
Aldrin	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
Heptachlor epoxide	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
Endosulfan I	8.0	13.0	U	16.0	U	13.0	U	0.1	U	0.1	U
4,4'-DDE	16.0	26.0	U	32.0	U	26.0	U	0.1	U	0.1	U
Dieldrin	16.0	26.0	U	32.0	U	26.0	U	0.0	U	0.0	U
Endrin	16.0	26.0	U	32.0	U	26.0	U	0.0	U	0.0	U
4,4'-DDD	16.0	26.0	U	32.0	U	26.0	U	0.1	U	0.1	U
Endosulfan II	16.0	26.0	U	32.0	U	26.0	U	0.1	U	0.1	U
4,4'-DDT	16.0	26.0	U	32.0	U	26.0	U	0.1	U	0.1	U
Endosulfan sulfate	16.0	26.0	U	32.0	U	26.0	U	0.1	U	0.1	U
Endrin aldehyde	16.0		R		R		R		R		R
Methoxychlor	80.0	130.0	U	160.0	U	130.0	U	0.2	U		R
Endrin ketone	16.0	26.0	U	32.0	U	26.0	U	0.1	U	0.1	U
Chlordane	80.0	130.0	U	160.0	U	130.0	U	0.1	U	0.1	U
Toxaphene	160.0	260.0	U	320.0	U	260.0	U	1.0	U	1.0	U
PCB-1221	**	260.0	U	320.0	U	260.0	U	0.5	U	0.5	U
PCB-1232	**	260.0	U	320.0	U	260.0	U	0.5	U	0.5	U
PCB-1016/1242	**	260.0	U	320.0	U	260.0	U	0.5	U	0.5	U
PCB-1248	**	260.0	U	320.0	U	260.0	U	0.5	U	0.5	U
PCB-1254	**	260.0	U	320.0	U	260.0	U	0.5	U	0.5	U
PCB-1260	**	260.0	U	320.0	U	260.0	U	0.5	U	0.5	U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** The Detection Limit for the total PCBs is 160.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.
[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-17		SP-18		SP-19		SP-02		SP-03		SP-04		SP-05		SP-14	
Latitude:		42-52-44		42-52-41		42-52-36		[1]		42-52-40		[1]		42-52-41		42-52-40	
Longitude:		73-08-52		73-08-50		73-08-54		[1]		73-09-01		[1]		73-09-00		73-09-01	
Sample ID #:		Q6723		Q6725		Q6466		Q6609		Q6717		Q6611		Q6497		Q6721	
Depth of Sample:		0-12"		0-12"		0-12"		0-10"		0-12"		0-12"		0-12"		0-12"	
Sample Date:		10/5/92		10/5/92		9/30/92		10/2/92		10/5/92		10/2/92		10/1/92		10/5/92	
Percent Solids Results:		71%		80%		84%		90%		78%		82%		87%		92%	
Analyte	CRDL Detection Limit																
Aluminum	40	8760		11500		9600		4010		5720		7740		6590		4090	
Antimony	12	2.8	UJ	2.5	UJ	R		2.2	UJ	2.6	UJ	2.4	UJ	R		2.2	UJ
Arsenic	2	0.46	J	3.0		3.0		1.5		3.4	J	3.0		2.2		0.8	J
Barium	40	34.5		54.9		30.0		26.0		279		51.9		40.0		22.1	
Beryllium	1	0.30	J	0.65	J	0.43	J	0.29	J	0.32	J	0.67	J	0.40	J	0.29	J
Cadmium	1	0.28	U	0.25	U	0.24	U	0.22	U	2.1		0.24	U	0.29	J	0.51	
Calcium	1000	470	J	224	J	202	J	1020	J	2850	J	4810	J	2220	J	608	J
Chromium	2	7.3		9.3		6.8		4.5		10.6		12.1		6.3		5.1	
Cobalt	10	3.6	J	9.9		5.4	J	3.7	J	8.4		8.4		5.0	J	4.4	J
Copper	5	5.8		6.4		4.0		7.4		41.6		16.8		8.7		7.8	
Iron	20	20100		16300		12600		9130		17100		17000		10700		8030	
Lead	1	5.3	J	19.6	J	12.5	J	14.0	J	141		18.9	J	15.8	J	1560	
Magnesium	1000	846		1020		1050		1090		2090		3480		2060		1340	
Manganese	3	77.0		708		250	J	84.0		424		469		258		170	
Mercury	0.04	0.14	U	0.12	U	0.12	U	0.11	U	0.13	U	0.12	U	0.11	U	0.23	
ickel	8	5.4	J	7.0	J	6.3	J	4.2	J	57.3	J	16.6	J	7.2	J	109	J
otassium	1000	63	U	423	J	91.5	J	392	J	554	J	578	J	549	J	625	
Selenium	1	0.42	UJ	0.38	UJ	0.36	UJ	0.33	UJ	1.9	UJ	0.37	UJ	1.7	UJ	0.33	UJ
Silver	2	0.28	U	0.25	U	0.24	U	0.22	U	0.26	U	0.24	U	0.23	U	0.22	U
Sodium	1000	2.2	J	146	J	140	J	137	J	169	J	178	J	142	J	155	J
Thallium	2	0.14	UJ	0.23	J	0.17	J	0.11	U	0.18	J	0.12	U	0.11	U	0.11	U
Vanadium	10	0.23		17.9		13.1		7.2		11.2		11.9		14.0		6.5	
Zinc	4	0.34		42.0		42.9		28.2		585		57.9		38.8		23.6	
Cyanide	2	NA		NA		NA		0.66		0.32	U	0.30	U	NA		NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-22	SP-22 BLDUP#1	SBW-13	SBW-13 BLDUP#2	SBW-18	SBW-21	SP-01	SBW-10
Latitude:		42-52-39	42-52-39	42-52-44	42-52-44	42-52-40	42-52-42	[1]	42-52-45
Longitude:		73-09-01	73-09-01	73-08-58	73-08-58	73-09-01	73-09-00	[1]	73-08-59
Sample ID #:		Q6485	Q6489	Q6727	Q6739	Q6719	Q6729	Q6607	Q6292
Depth of Sample:		0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-10"	0-10"
Sample Date:		10/1/92	10/1/92	10/5/92	10/5/92	10/5/92	10/5/92	10/2/92	9/29/92
Percent Solids Results:		91%	91%	95%	94%	91%	94%	89%	86%
Analyte	CRDL Detection Limit								
Aluminum	40	5540	5580	4010	3780	4960	4670	5510	4170
Antimony	12	2.7 J	R	2.2 J	3.1 J	3.0 J	3.4 J	2.2 UJ	R
Arsenic	2	1.9	1.9	2.5 J	1.0 J	1.5 J	3.4 J	2.9	1.8
Barium	40	27.9	21.5 J	26.0	21.0 J	35.0	31.8	32.0	122
Beryllium	1	0.07 J	0.07 J	0.27 J	0.28 J	0.28 J	0.27 J	0.29 J	0.08 J
Cadmium	1	0.25 J	0.35	0.21 U	0.21 U	0.22 U	0.33	0.22 U	0.30 J
Calcium	1000	319 J	304 J	18900 J	13200 J	1220 J	27100 J	1140 J	1190 J
Chromium	2	5.9	5.7	5.1	4.8 J	5.9	5.3	5.9	4.5
Cobalt	10	3.2 J	3.6 J	5.5	4.3 J	6.6	4.7 J	5.2 J	11.5
Copper	5	6.9	8.0	9.8	7.0	7.1	13.0	6.5	5.6
Iron	20	9590	10800	9860	8430	10200	16700	11800	6460
Lead	1	141	153	4.9 J	6.1 J	9.6 J	18.5 J	9.9 J	9.2 J
Magnesium	1000	1080	1110	5800	5290	1510	11700	1530	1430
Manganese	3	102	104	241	157	194	416	279	2470
Mercury	0.04	0.13	0.15	0.11 U	0.11 U	0.11 U	1.2	0.11 U	0.12 U
ickel	8	16.5 J	18.4 J	7.2 J	6.5 J	8.7 J	7.5 J	8.3 J	6.8 J
Potassium	1000	435 J	360 J	562	573	666	47.9 U	250 J	560 J
Selenium	1	0.33 UJ	0.33 UJ	0.32 UJ	0.32 UJ	0.33 UJ	0.32 UJ	0.34 UJ	0.35 UJ
Silver	2	0.22 U	0.22 U	0.25 J	0.21 U	0.22 U	0.21 U	0.22 U	0.39 U
Sodium	1000	136 J	121 J	202 J	170 J	216 J	150 J	150 J	181 J
Thallium	2	0.11 U	0.11 J	0.11 U	0.15 J	0.11 UJ	0.11 UJ	0.11 U	0.12 UJ
Vanadium	10	8.8	8.5	8.5	7.8	8.9	9.7	7.9	6.8
Zinc	4	33.7	32.3	25.1	22.1	39.7	375	29.7	24.7
Cyanide	2	0.27 U	0.27 U	NA	NA	NA	NA	0.28 U	NA

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-06	SP-07	SP-08	SP-09	SP-10	SP-11	SP-12	SP-13
Latitude:		[1]	42-52-39	42-52-39	42-52-38	42-52-39	42-52-40	42-52-41	42-52-42
Longitude:		[1]	73-09-00	73-09-01	73-09-00	73-09-00	73-09-00	73-08-59	73-08-59
Sample ID #:		Q6491	Q6507	Q6511	Q6487	Q6503	Q6509	Q6493	Q6495
Depth of Sample:		0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
Sample Date:		10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92
Percent Solids Results:		55%	44%	84%	63%	51%	64%	53%	63%
Analyte	CRDL Detection Limit								
Aluminum	40	6770	5720	5300	6930	9800	4090	8820	6190
Antimony	12	4.6 J	5.5 J	R	R	R	R	R	R
Arsenic	2	3.4	4.2	1.3	2.2	2.7	1.9	1.5 J	1.6 J
Barium	40	165	280	29.0	66.4	130	63.3	112	49.0
Beryllium	1	0.12 J	0.10 J	0.07 J	0.12 J	0.75 J	0.12 J	0.72 J	0.27 J
Cadmium	1	1.4	1.7 U	0.27 U	0.49	0.78 U	0.74 U	0.68 U	0.32 U
Calcium	1000	2990 J	1810 J	232 J	2080	1750 J	1090 J	1980 J	2070 J
Chromium	2	8.6	9.7	5.0	6.8	8.0	8.6	8.0	5.7
Cobalt	10	7.2 J	6.4 J	1.7 J	4.6 J	6.1 J	5.6 J	5.7 J	4.4 J
Copper	5	19.6	51.0	6.4	5.9	10.6	36.7	9.1	6.0
Iron	20	25700	29400	12200	8350	10900	21800	9510	8750
Lead	1	78.3	1040	67.7	69.9	133	289	22.3 J	19.6 J
Magnesium	1000	1830	741 J	404 J	958	1460	1080	1560	1310
Manganese	3	3050	240 J	40.2	113	204	275 J	413	291
Mercury	0.04	0.18 U	0.35	0.12 U	0.16 U	0.20 U	0.21	0.19 U	0.16 U
Nickel	8	177 J	128 J	3.4 J	590 J	596 J	14.7 J	29.1 J	30.1 J
Potassium	1000	576 J	1530	100 J	273 J	600 J	483 J	332 J	357 J
Selenium	1	0.55 UJ	0.68 UJ	0.36 UJ	0.48 UJ	0.59 UJ	0.47 UJ	0.57 UJ	0.48 UJ
Silver	2	0.53 J	0.45 U	0.24 U	0.32 U	0.39 U	0.31 U	0.38 U	0.32 U
Sodium	1000	194 J	1150	162 J	241 J	425 J	209 J	287 J	200 J
Thallium	2	0.18 J	0.23 U	0.12 U	0.16 U	0.20 U	0.16 U	0.24 J	0.16 U
Vanadium	10	12.4	10.5 J	10.1	9.1	12.9	7.7 J	13.3	10.5
Zinc	4	715	506	57.3	54.3	90.1	182	77.0	37.2
Cyanide	2	0.45 U	1.90	NA	0.40 U	0.49 U	NA	NA	0.40 U

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-15	SP-16	W-04 S2	W-12 S2	SP-20	SP-21	W-07 S2	W-08 S2
Latitude:		42-52-43	42-52-39	42-52-38	42-52-42	42-52-38	42-52-36	42-52-44	42-52-40
Longitude:		73-08-59	73-08-59	73-09-01	73-08-58	73-08-57	73-08-57	73-09-02	73-09-02
Sample ID #:		Q6499	Q6505	Q6735	Q6737	Q6468	Q6501	Q6483	Q6731
Depth of Sample:		0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
Sample Date:		10/1/92	10/1/92	10/5/92	10/5/92	9/30/92	10/1/92	10/1/92	10/5/92
Percent Solids Results:		91%	78%	39%	58%	67%	74%	89%	91%
Analyte	CRDL Detection Limit								
Aluminum	40	5820	7750	10100	7620	14600	4470	3880	6410
Antimony	12	R	R	5.1 UJ	3.4 UJ	R	R	R	2.2 UJ
Arsenic	2	1.2	2.0	1.6 J	1.7 J	2.3	2.1	0.87 J	1.8 J
Barium	40	40.8	21.6 J	122	99.5	63.6	20.7 J	23.3	18.8 J
Beryllium	1	0.06 J	0.05 J	0.70 J	0.41 J	0.54 J	0.08 J	0.08 J	0.28 J
Cadmium	1	0.22 U	0.43 U	0.56 J	0.34 U	0.47 J	0.28 U	0.25 J	0.22 U
Calcium	1000	1130 J	553 J	2750 J	535 J	2010 J	229 J	608 J	298 J
Chromium	2	5.6	5.3	11.0	7.6	12.3	4.6	4.7	5.8
Cobalt	10	3.6 J	1.5 J	6.9 J	3.0 J	8.7	2.0 J	3.3 J	3.8 J
Copper	5	6.6	2.7	22.3	8.0	3.7	2.5	6.3	5.0
Iron	20	9090	10000	15800	12600	13800	10500	6550	9030
Lead	1	15.5 J	9.7 J	194 J	22.5 J	15.3 J	13.2 J	3.1 J	11.3 J
Magnesium	1000	1330	867	1390	843 J	1400	670 J	1500	998
Manganese	3	142	31.1	205	175	340	90.2	191	76.5
Mercury	0.04	0.11 U	0.13 U	0.26 U	0.17 U	0.15 U	0.14 U	0.11 U	0.11 U
ickel	8	4.8 J	3.7 J	184 J	5.7 J	8.7 J	2.8 J	4.6 J	5.8 J
Potassium	1000	491 J	127 J	246 J	90.4 J	230 J	173 J	718 J	133 J
Selenium	1	0.33 UJ	0.38 UJ	0.77 UJ	0.52 UJ	0.45 UJ	0.41 UJ	0.34 UJ	0.33 UJ
Silver	2	0.22 U	0.26 U	0.51 U	0.34 U	0.30 U	0.27 U	0.22 U	0.22 U
Sodium	1000	135 J	185 J	509 J	237 J	179 J	156 J	135 J	172 J
Thallium	2	0.11 U	0.15 J	0.26 J	0.17 U	0.15 U	0.14 UJ	0.18 J	0.21 J
Vanadium	10	9.4	15.6	12.5 J	19.3	15.0	12.1	6.4	8.9
Zinc	4	29.0	22.6	93.5	30.4	50.0	15.5	16.1	23.0
Cyanide	2	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		W-25 S2	SP-23-05	SP-24-05	SP-25-05	SP-26-05	SPDUP1-5 SP-26-05	SP-27-05	SP-28-05
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-37	42-52-37
Longitude:		73-09-02	73-09-01	73-09-01	73-09-02	73-09-02	73-09-02	73-09-03	73-09-02
Sample ID #:		Q6733	T7143	T7144	T7141	T7142	T7145	T7137	T7139
Depth of Sample:		0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
Sample Date:		10/5/92	5/18/94	5/18/94	5/18/94	5/18/94	5/18/94	5/18/94	5/18/94
Percent Solids Results:		75%	68.0%	66.1%	74.6%	51.4%	44.2%	83.1%	68.0%
Analyte	CRDL Detection Limit								
Aluminum	40	7110	13200	5360	10700	8010	9810	6310	9910
Antimony	12	2.7 UJ	0.24 J	0.3 J	0.13 UJ	0.19 UJ	0.27 J	0.12 UJ	0.15 UJ
Arsenic	2	2.0 J	2.5 J	2.9 J	1.7 J	2 J	3.6 J	2.2 J	2.5 J
Barium	40	20.7 J	40.3	59.4	24.5 J	102	123	19.8 J	25.9 J
Beryllium	1	0.32 J	0.27 J	0.43 J	0.31 J	0.54 J	0.7 J	0.19 J	0.21 J
Cadmium	1	0.27 U	0.15 U	0.15 U	0.13 U	4.5 J	0.28 J	0.12 U	0.15 U
Calcium	1000	175 J	393 J	1370	394 J	2590	3120	286 J	654 J
Chromium	2	5.7	11.4	6.6	9	7.3	9.6	6.2	7.1
Cobalt	10	2.1 J	2 J	5 J	2.9 J	5.4 J	7.1 J	2 J	1 J
Copper	5	3.9	4.7	5.2	18.5	8.3	9.6	6.2	3.3
Iron	20	10800	14300	9040	18000	8720	11800	9020	8900
Lead	1	11.0 J	18.7 J	12.6 J	31.4 J	93.9 J	24 J	10.1 J	11.4 J
Magnesium	1000	543 J	1400	1100	1130	1370	1860	656	783
Manganese	3	35.5	60.3	347	75.8	323	440	64.7	40.5
Mercury	0.04	0.13 U	0.15 U	0.15 U	0.13 U	0.19 U	0.23 U	0.12 U	0.15 U
ickel	8	4.1 J	4.6 J	15.6	6.1	25.2	28.2	4.3 J	3 J
Potassium	1000	60.0 U	611 J	564 J	621 J	586 J	772 J	303 J	388 J
Selenium	1	0.40 UJ	0.31 J	0.21 J	0.29 J	R	0.29 J	0.22 J	0.35 J
Silver	2	0.27 U	0.15 U	0.15 U	0.13 U	0.19 U	0.23 U	0.12 U	0.15 U
Sodium	1000	159 J	358 J	319 J	412 J	478 J	652 J	287 J	439 J
Thallium	2	0.22 J	0.19 J	R	R	0.21 J	R	R	R
Vanadium	10	14.1	25.2	8.2	17.7	11.7	14.8	11.2	17.3
Zinc	4	18.0	34.5	52.7	30.1	68.5	78.6	308	27.7
Cyanide	2	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
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[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SP-29-05		SP-30-05		FEQBLK*#1		FEQBLK*#3		FEQBLK*#2		SP-EB-05		SS E/FB-05	
Latitude:		42-52-37		42-52-37		NA		NA		NA		NA		NA	
Longitude:		73-09-03		73-09-02		NA		NA		NA		NA		NA	
Sample ID #:		T7138		T7140		Q6469		Q6740		Q6612		T7135		T8149	
Depth of Sample:		0-12"		0-12"		NA		NA		NA		NA		NA	
Sample Date:		5/18/94		5/18/94		9/30/92		10/5/92		10/2/92		5/18/94		6/09/94	
Percent Solids Results:		63.1%		44.8%		NA		NA		NA		NA		NA	
Analyte	CRDL Detection Limit														
Aluminum	40	9160		24500		28.5	J	24	U	32.9	J	20.3	J	20	U
Antimony	12	0.27	J	0.31	J	21.7	J	20	U	20	U	1	U	1	U
Arsenic	2	2.6	J	3.3	J	2.0	U	2.0	U	2.0	U	1	UJ	1	U
Barium	40	29.1	J	92.1		2.6	J	2.6	J	1.7	J	0.5	U	0.5	U
Beryllium	1	0.23	J	1.3		0.10	U	0.10	U	0.10	U	0.51	U	0.5	U
Cadmium	1	0.16	U	0.22	U	2.0	U	2.0	U	2.0	U	1	U	0.5	U
Calcium	1000	571	J	3450		21.4	J	407	J	337	J	100	J	29.3	J
Chromium	2	8.2		19.8		4.0	U	4.0	U	13.9		2	U	1	U
Cobalt	10	2	J	17		4.0	U	4.0	U	4.0	U	1	U	1	U
Copper	5	5.1		4.7		2.4	J	2.1	J	7.3		1	U	1	U
Iron	20	9560		21200		89.3	J	304		446	J	95.6	J	101	
Lead	1	16.7	J	35.9	J	1.0	U	1.0	U	1.0	U	1	UJ	1	U
Magnesium	1000	1150		1570		22.6	J	32.6	J	19	U	30	U	30	U
Manganese	3	49.3		1220		1.2	J	13.9	J	5.8	J	2.2	J	5	J
Mercury	0.04	0.16	U	0.36		0.20	U	0.20	U	0.20	U	0.2	U	0.2	U
ickel	8	4.9	J	9		6.0	U	6.0	U	6.0	U	2	U	2	U
otassium	1000	421	J	629	J	831	J	450	UJ	450	U	200	U	200	U
Selenium	1	0.26	J	0.52	J	3.0	U	3.0	U	3.0	U	1	UJ	1	U
Silver	2	0.16	U	0.22	U	3.6	J	2.0	U	2.0	U	1	U	1	U
Sodium	1000	468	J	688	J	41	U	813	J	55.2	J	94	J	7.4	J
Thallium	2	R		R		1.0	U	1.0	U	1.0	U	1	UJ	1	U
Vanadium	10	16.2		22.9		6.6	J	4.0	U	4.0	U	1	U	1	U
Zinc	4	36		75.4		4.5	J	17.6	J	12.7	J	1.7	J	1	U
Cyanide	2	NA		NA		5.0	U	NA		5.0	U	NA		NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 4

Surface Soils Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	E/F PUMP B-05
Latitude:	NA
Longitude:	NA
Sample ID #:	T8666
Depth of Sample:	NA
Sample Date:	6/17/94
Percent Solids Results:	NA

Analyte	CRDL Detection Limit		
Aluminum	40	20	U
Antimony	12	1.4	J
Arsenic	2	1	U
Barium	40	2.4	J
Beryllium	1	0.5	U
Cadmium	1	0.5	U
Calcium	1000	1620	J
Chromium	2	2.7	J
Cobalt	10	1	U
Copper	5	3.8	J
Iron	20	85.3	J
Lead	1	2.2	J
Magnesium	1000	77.4	J
Manganese	3	4.9	J
Mercury	0.04	0.2	U
Nickel	8	2	U
Potassium	1000	200	U
Selenium	1	1.3	J
Silver	2	1	U
Sodium	1000	1080	J
Thallium	2	1	U
Vanadium	10	1	U
Zinc	4	86.1	
Cyanide	2	NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Unable to survey location.

Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SBW-14	SBW-14	SBW-14	SBW-15	SBW-15	SBW-15	SBW-16	SBW-16
Latitude:		42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-41	42-52-41
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		Q7441	Q7442	Q7443	Q8198	Q8199	Q8200	Q6947	Q6948
Depth of Sample:		6-8'	8-10'	12-14'	2-4'	4-6'	8-10'	2-4'	4-6'
Sample Date:		10/15/92	10/15/92	10/15/92	10/23/92	10/23/92	10/23/92	10/8/92	10/8/92
Percent Solids Results:		91%	91%	94%	60%	63%	86%	72%	56%
Compound	Detection Limit								
Chloromethane	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Bromomethane	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Vinyl chloride	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Chloroethane	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Methylene chloride	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Acetone	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Carbon disulfide	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
1,1-Dichloroethene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
1,1-Dichloroethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
1,2-Dichloroethene (total)	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9
Chloroform	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
1,2-Dichloroethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
2-Butanone	10	55 U	11 U	11 U	R	R	R	14 U	18 U
1,1,1-Trichloroethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Carbon tetrachloride	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Vinyl acetate	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Bromodichloromethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
1,2-Dichloropropane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
cis-1,3-Dichloropropene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Trichloroethene	5	60	16	12	2400000	6900000	24000 U	7 U	9 U
Dibromochloromethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
1,1,2-Trichloroethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Benzene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
trans-1,3-Dichloropropene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Bromoform	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
4-Methyl-2-pentanone	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
2-Hexanone	10	55 U	11 U	11 U	420000 U	400000 U	48000 U	14 U	18 U
Tetrachloroethene	5	470	150	10	8100000	5700000	540000	7 U	9 U
1,1,2,2-Tetrachloroethane	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Toluene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Chlorobenzene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Ethylbenzene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Styrene	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Xylenes (total)	5	27 U	5 U	5 U	210000 U	200000 U	24000 U	7 U	9 U
Total TICs		NA	NA	NA	NA	NA	NA	49 J	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
AB – Abandoned

Table 5A

Soil Boring Volatile Organic Analyses - Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SBW-16	SBW-17	SBW-17	SBW-17	SBW-18A	SBW-18A	SBW-18A	SBW-18A BLDUP
Latitude:		42-52-41	42-52-42	42-52-42	42-52-42	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-01	73-09-00	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		Q6949	Q6950	Q6951	Q6952	Q7198	Q7199	Q7200	Q7201
Depth of Sample:		8-10'	6-8'	8-10'	12-14'	4-6'	8-10'	12-14'	12-14'
Sample Date:		10/8/92	10/9/92	10/9/92	10/9/92	10/14/92	10/14/92	10/14/92	10/14/92
Percent Solids Results:		92%	61%	67%	86%	89%	77%	92%	90%
Compound	Detection Limit								
Chloromethane	10	11 U	16 U	15 U	12 U	11 U	1600 U	11 U	11 U
Bromomethane	10	11 U	16 U	15 U	12 U	11 U	1600 U	11 U	11 U
Vinyl chloride	10	11 U	16 U	15 U	12 U	11 U	1600 U	11 U	11 U
Chloroethane	10	11 U	16 U	15 U	12 U	11 U	1600 U	11 U	11 U
Methylene chloride	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Acetone	10	48	16 U	15 U	12 U	11 U	1600 U	71 J	150 J
Carbon disulfide	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
1,1-Dichloroethene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
1,1-Dichloroethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
1,2-Dichloroethene (total)	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Chloroform	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
1,2-Dichloroethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
2-Butanone	10	11 U	16 U	15 U	12 U	11 U	R	11 U	11 U
1,1,1-Trichloroethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Carbon tetrachloride	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Vinyl acetate	10	11 U	16 U	15 U	12 U	11 U	1600 U	11 U	11 U
omodichloromethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
,2-Dichloropropane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
cis-1,3-Dichloropropene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Trichloroethene	5	5 U	8 U	7 U	6 U	22	3200	8	13
Dibromochloromethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
1,1,2-Trichloroethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Benzene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
trans-1,3-Dichloropropene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Bromoform	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
4-Methyl-2-pentanone	10	11 U	16 U	15 U	19	11 U	1600 U	11 U	11 U
2-Hexanone	10	11 U	16 U	15 U	12 U	11 U	1600 U	11 U	11 U
Tetrachloroethene	5	5 U	8 U	7 U	6 U	34	13000	5 U	6 U
1,1,2,2-Tetrachloroethane	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Toluene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Chlorobenzene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Ethylbenzene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Styrene	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Xylenes (total)	5	5 U	8 U	7 U	6 U	6 U	810 U	5 U	6 U
Total TICs		NA	NA	NA	NA	NA	6 J	NA	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
AB - Abandoned

Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SBW-19	SBW-19	SBW-19	SBW-20	SBW-20	SBW-20	SBW-21	SBW-21
Latitude:		42-52-42	42-52-42	42-52-42	42-52-41	42-52-41	42-52-41	42-52-42	42-52-42
Longitude:		73-09-01	73-09-01	73-09-01	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		Q6878	Q6879	Q6880	Q7444	Q7445	Q7446	Q7447	Q7448
Depth of Sample:		4-6'	6-8'	10-12'	6-8'	12-14'	20-22'	2-4'	12-14'
Sample Date:		10/8/92	10/8/92	10/8/92	10/15/92	10/15/92	10/15/92	10/15/92	10/15/92
Percent Solids Results:		60%	86%	89%	94%	84%	74%	81%	77%
Compound	Detection Limit								
Chloromethane	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
Bromomethane	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
Vinyl chloride	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
Chloroethane	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
Methylene chloride	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Acetone	10	17 U	460 U	78 U	11 U	12 U	74	12 U	20
Carbon disulfide	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (total)	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Chloroform	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
2-Butanone	10	17 U	120	18	11 U	12 U	13 U	12 U	13 U
1,1,1-Trichloroethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Vinyl acetate	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
Bromodichloromethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
cis-1,3-Dichloropropene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Trichloroethene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Dibromochloromethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Benzene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
trans-1,3-Dichloropropene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Bromoform	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
4-Methyl-2-pentanone	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
2-Hexanone	10	17 U	23 U	11 U	11 U	12 U	13 U	12 U	13 U
Tetrachloroethene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Toluene	5	140	140	6 U	5 U	6 U	10	6 U	6 U
Chlorobenzene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Ethylbenzene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Styrene	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Xylenes (total)	5	8 U	12 U	6 U	5 U	6 U	6 U	6 U	6 U
Total TICs		8 J	26 J	NA	NA	NA	NA	NA	111 J

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
AB – Abandoned

Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SBW-21	SBW-10	SBW-10	SBW-10	SBW-10 BLDUP	W-01 S1	W-01 S1
Latitude:		42-52-42	42-52-45	42-52-45	42-52-45	42-52-45	42-52-44	42-52-44
Longitude:		73-09-00	73-08-59	73-08-59	73-08-59	73-08-59	73-08-58	73-08-58
Sample ID #:		Q7449	Q7450	Q7810	Q7811	Q7812	Q6876	Q6877
Depth of Sample:		20-22'	8-10'	10-12'	14-16'	14-16'	6-8'	10-12'
Sample Date:		10/15/92	10/16/92	10/19/92	10/19/92	10/19/92	10/7/92	10/8/92
Percent Solids Results:		85%	81%	85%	85%	84%	87%	90%
Compound	Detection Limit							
Chloromethane	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
Bromomethane	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
Vinyl chloride	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
Chloroethane	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
Methylene chloride	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Acetone	10	97	12 U	12 U	12 U	12 U	11 U	11 U
Carbon disulfide	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (total)	5	17	6 U	6 U	6 U	6 U	6 U	6 U
Chloroform	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
2-Butanone	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
1,1,1-Trichloroethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Vinyl acetate	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
romodichloromethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
,2-Dichloropropane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
cis-1,3-Dichloropropene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Trichloroethene	5	14	6 U	6 U	6 U	6 U	6 U	6 U
Dibromochloromethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
trans-1,3-Dichloropropene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Bromoform	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
4-Methyl-2-pentanone	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
2-Hexanone	10	12 U	12 U	12 U	12 U	12 U	11 U	11 U
Tetrachloroethene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Toluene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Styrene	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Xylenes (total)	5	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
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Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	W-01B	W-23T	W-23T BLDUP	W-24T	W-03T	W-03T	W-03T	W-03T
Latitude:	42-52-44	42-52-38	42-52-38	42-52-35	42-52-39	42-52-39	42-52-39	42-52-39
Longitude:	73-08-58	73-08-57	73-08-57	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:	R3868	R8012	R8013	R4242	R2478	R2479	R2480	R2481
Depth of Sample:	32-34'	4-6'	4-6'	10-12'	2-4'	6-8'	8-10'	10-12'
Sample Date:	1/27/93	1/30/93	3/25/93	2/2/93	1/7/93	1/7/93	1/7/93	1/7/93
Percent Solids Results:	89%	90%	88%	89%	86%	87%	88%	88%

Compound	Detection Limit															
Chloromethane	10	11	U	11	U	11	U	11	U	23	U	23	U	57	U	57	U
Bromomethane	10	11	U	11	U	11	U	11	U	23	U	23	U	57	U	57	U
Vinyl chloride	10	11	U	11	U	11	U	11	U	23	U	23	U	57	U	57	U
Chloroethane	10	11	U	11	U	11	U	11	U	23	U	23	U	57	U	57	U
Methylene chloride	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Acetone	10	64	J	11	U	11	U	72	J	65		96		94		72	
Carbon disulfide	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
1,1-Dichloroethene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
1,1-Dichloroethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
1,2-Dichloroethene (total)	5	6	U	6	U	6	U	6	U	38		87		63		70	
Chloroform	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
1,2-Dichloroethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
2-Butanone	10	R		11	U	11	U	R		23	U	23	U	57	U	57	U
1,1,1-Trichloroethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Carbon tetrachloride	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Vinyl acetate	10	11	U	11	UJ	11	UJ	11	U	23	U	23	U	57	U	57	U
romodichloromethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
,2-Dichloropropane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
cis-1,3-Dichloropropene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Trichloroethene	5	7		6	U	6	U	6	U	12	U	100		100		110	J
Dibromochloromethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
1,1,2-Trichloroethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Benzene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
trans-1,3-Dichloropropene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Bromoform	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
4-Methyl-2-pentanone	10	11	U	11	U	11	U	11	U	23	U	23	U	57	U	57	U
2-Hexanone	10	11	U	11	U	11	U	11	U	23	U	23	U	57	U	57	U
Tetrachloroethene	5	6	U	6	U	6	U	6	U	12	U	270		260		340	
1,1,2,2-Tetrachloroethane	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Toluene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Chlorobenzene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Ethylbenzene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Styrene	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Xylenes (total)	5	6	U	6	U	6	U	6	U	12	U	12	U	28	U	28	U
Total TICs		NA		NA		NA		NA		NA		NA		NA		NA	

NOTES:
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*Values reported in µg/l (ppb).
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Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	W-03T	W-04B(AB)	W-04B(AB)	W-04B(AB)	W-04B(AB)	W-04B(AB)	W-04B(AB) BLDUP	W-04B(AB)
Latitude:	42-52-39	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:	R2482	R1600	R1601	R1602	R1603	R1604	R1607	R1605
Depth of Sample:	12-14'	0-3'	3-5'	5-7'	7-9'	9-11'	9-11'	11-13'
Sample Date:	1/7/93	12/16/92	12/16/92	12/16/92	12/16/92	12/16/92	12/16/92	12/16/92
Percent Solids Results:	85%	69%	86%	90%	84%	88%	84%	88%

Compound	Detection Limit							
Chloromethane	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
Bromomethane	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
Vinyl chloride	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
Chloroethane	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
Methylene chloride	5	12 U	9	6 U	6 U	6	6 U	6 U	6 U
Acetone	10	55	54 J	24 J	11 U	39 J	48 J	43 J	25 J
Carbon disulfide	5	12 U	7 U	6	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (total)	5	12 U	13	6 U	6 U	6 U	6 U	6 U	6 U
Chloroform	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
2-Butanone	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
1,1,1-Trichloroethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Vinyl acetate	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
romodichloromethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
,2-Dichloropropane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
cis-1,3-Dichloropropene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Trichloroethene	5	12 U	7 U	39	100	33	72 J	39 J	6 U
Dibromochloromethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
trans-1,3-Dichloropropene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Bromoform	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
4-Methyl-2-pentanone	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
2-Hexanone	10	23 U	14 U	12 U	11 U	12 U	11 U	12 U	11 U
Tetrachloroethene	5	12	7 U	16	32	11	23 J	12 J	6 U
1,1,2,2-Tetrachloroethane	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Toluene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Styrene	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Xylenes (total)	5	12 U	7 U	6 U	6 U	6 U	6 U	6 U	6 U
Total TICs		NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
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AB – Abandoned

Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		W-04B(AB)	W-11 S1	W-11 S1	W-11 S1	W-11 S1	W-11 S1	W-22 S1	W-22 S1
Latitude:		42-52-38	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-41	42-52-41
Longitude:		73-09-01	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-08-59	73-08-59
Sample ID #:		R1606	R3364	R3365	R3366	R3367	R3368	R3870	R3871
Depth of Sample:		15-17'	0-2'	2-4'	4-6'	6-8'	8-10'	4-6'	6-8'
Sample Date:		12/16/92	1/19/93	1/19/93	1/20/93	1/20/93	1/20/93	1/27/93	1/27/93
Percent Solids Results:		90%	62%	87%	81%	79%	82%	85%	82%
Compound	Detection Limit								
Chloromethane	10	11 U	16 U	23 U	25 U	25 U	30 U	24 U	12 U
Bromomethane	10	11 U	16 U	23 U	25 U	25 U	30 U	24 U	12 U
Vinyl chloride	10	11 U	16 U	110	47	110	62	24 U	12 U
Chloroethane	10	11 U	16 U	23 U	25 U	25 U	30 U	24 U	12 U
Methylene chloride	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Acetone	10	37 J	320 J	71 J	67 J	92 J	46 J	40 J	40 J
Carbon disulfide	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
1,1-Dichloroethene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
1,1-Dichloroethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
1,2-Dichloroethene (total)	5	6 U	8 U	110	210	17	620	12 U	10 J
Chloroform	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
1,2-Dichloroethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
2-Butanone	10	11 U	63 J	R	R	R	R	R	R
1,1,1-Trichloroethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Carbon tetrachloride	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Vinyl acetate	10	11 U	16 U	23 U	25 U	25 U	30 U	24 U	12 U
romodichloromethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
,2-Dichloropropane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
cis-1,3-Dichloropropene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Trichloroethene	5	6 U	8 U	12 U	23	13 U	320	53	74
Dibromochloromethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
1,1,2-Trichloroethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Benzene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
trans-1,3-Dichloropropene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Bromoform	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
4-Methyl-2-pentanone	10	11 U	16 U	29	29	25 U	30 U	24 U	12 U
2-Hexanone	10	11 U	16 U	23 U	25 U	25 U	30 U	24 U	12 U
Tetrachloroethene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
1,1,2,2-Tetrachloroethane	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Toluene	5	6 U	8 U	12	12 U	13 U	15 U	12 U	6 U
Chlorobenzene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Ethylbenzene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Styrene	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Xylenes (total)	5	6 U	8 U	12 U	12 U	13 U	15 U	12 U	6 U
Total TICs		NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
AB – Abandoned

Table 5A

Soil Boring Volatile Organic Analyses - Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		W-22 S1 BLDUP	W-22 S1	W-22 S1	WTP-12-05	BDSB-1 WTP-12-05	WTP-12-05	WTP-12-05
Latitude:		42-52-41	42-52-41	42-52-41	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-08-59	73-08-59	73-08-59	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		R3874	R3872	R8373	T8138	T8139	T8140	T8141
Depth of Sample:		6-8'	8-10'	10-12'	20'6"-22'6"	20'6"-22'6"	22'6"-24'6"	24'6"-26'6"
Sample Date:		1/27/93	1/27/93	1/27/93	6/07/94	6/07/94	6/07/94	6/07/94
Percent Solids Results:		85%	90%	89%	79.6%	80.9%	82.8%	84.5%
Compound	Detection Limit							
Chloromethane	10	24 U	11 U	11 U	78000 U	150000 U	12 U	12 U
Bromomethane	10	24 U	11 U	11 U	78000 U	150000 U	12 U	12 U
Vinyl chloride	10	24 U	11 U	11 U	78000 U	150000 U	120	68
Chloroethane	10	24 U	11 U	11 U	78000 U	150000 U	12 U	12 U
Methylene chloride	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Acetone	10	92 J	82 J	81 J	78000 U	150000 U	20	16
Carbon disulfide	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
1,1-Dichloroethene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
1,1-Dichloroethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
1,2-Dichloroethene (total)	5	12 UJ	6 U	6 U	39000 U	77000 U	110	75
Chloroform	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
1,2-Dichloroethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
2-Butanone	10	R	R	R	78000 U	150000 U	12 U	12 U
1,1,1-Trichloroethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Carbon tetrachloride	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Vinyl acetate	10	24 U	11 U	11 U	78000 U	150000 U	12 U	12 U
Bromodichloromethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
1,2-Dichloropropane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
cis-1,3-Dichloropropene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Trichloroethene	5	100	6 U	6	54000 J	77000 U	6 U	45
Dibromochloromethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
1,1,2-Trichloroethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Benzene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
trans-1,3-Dichloropropene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Bromoform	5	12 U	6 U	6 U	39000 U	150000 U	6 U	6 U
4-Methyl-2-pentanone	10	24 U	11 U	11 U	78000 U	150000 U	12 U	12 U
2-Hexanone	10	24 U	11 U	11 U	78000 U	77000 U	12 U	12 U
Tetrachloroethene	5	12 U	6 U	6 U	1000000	1200000	6 U	15
1,1,2,2-Tetrachloroethane	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Toluene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Chlorobenzene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Ethylbenzene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Styrene	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Xylenes (total)	5	12 U	6 U	6 U	39000 U	77000 U	6 U	6 U
Total TICs		NA	NA	NA				

NOTES:

Values reported in ug/kg dry weight (ppb) unless noted otherwise.
*Values reported in ug/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
AB - Abandoned

Table 5A

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		WTP-12-05	W-4T-05	BLDUP-05 W-4T-05	SB-22-05	SB-22-05	SB-23-05	SB-23-05	BLDUP-05 SB-23-05
Latitude:		42-52-40	42-52-38	42-52-38	42-52-46	42-52-46	42-52-45	42-52-45	42-52-45
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-02	73-09-02	73-09-02
Sample ID #:		T8142	T4375	T4376	T5296	T5297	T5294	T5295	T5302
Depth of Sample:		26'6"-28'6"	19-21'	19-21'	0-2'	4-6'	0-2'	6-7'	6-7'
Sample Date:		6/07/94	3/24/94	3/24/94	4/11/94	4/11/94	4/11/94	4/11/94	4/11/94
Percent Solids Results:		88.9%	88.6%	90.5%	85.6%	88.4%	85.9%	87.2%	87.3%
Compound	Detection Limit								
Chloromethane	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
Bromomethane	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
Vinyl chloride	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
Chloroethane	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
Methylene chloride	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Acetone	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
Carbon disulfide	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (total)	5	100	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Chloroform	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
2-Butanone	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
1,1,1-Trichloroethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Vinyl acetate	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
romodichloromethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
,2-Dichloropropane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
cis-1,3-Dichloropropene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Trichloroethene	5	420	22 J	150 J	6 U	6 U	6 U	6 U	6 U
Dibromochloromethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
trans-1,3-Dichloropropene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Bromoform	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
4-Methyl-2-pentanone	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
2-Hexanone	10	56 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
Tetrachloroethene	5	28 U	9 J	52 J	6 U	6 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Toluene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Styrene	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Xylenes (total)	5	28 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Total TICs									

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
AB – Abandoned

Table 5B

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	SB-24-05	SB-24-05	SB-25-05	SB-25-05	W-22T-05	W-07B	W-07B
Latitude:	42-52-45	42-52-45	42-52-45	42-52-45	42-52-41	42-52-44	42-52-44
Longitude:	73-09-03	73-09-03	73-09-02	73-09-02	73-08-59	73-09-02	73-09-02
Sample ID #:	T5298	T5299	T5300	T5301	T4374	Q7929	R1962
Depth of Sample:	0-2'	2-4'	0-2'	2-4'	17-19'	7-9'	57-59'
Sample Date:	4/12/94	4/12/94	4/12/94	4/12/94	3/23/94	10/20/92	12/21/92
Percent Solids Results:	83.2%	79.7%	85.1%	79.7%	86.0%	89%	88%
Compound / Detection Limit							
Chloromethane 10	12 U	12 U	12 U	12 U	12 U	NA	NA
Bromomethane 10	12 U	12 U	12 U	12 U	12 U	NA	NA
Vinyl chloride 10	12 U	12 U	12 U	12 U	12 U	NA	NA
Chloroethane 10	12 U	12 U	12 U	12 U	12 U	NA	NA
Methylene chloride 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Acetone 10	12 U	12 U	12 U	12 U	12 J	NA	NA
Carbon disulfide 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,1-Dichloroethene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,1-Dichloroethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,2-Dichloroethene (total) 5	6 U	6 U	6 U	6 U	16	NA	NA
Chloroform 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,2-Dichloroethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
2-Butanone 10	12 U	12 U	12 U	12 U	12 U	NA	NA
1,1,1-Trichloroethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Carbon tetrachloride 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Vinyl acetate 10	12 U	12 U	12 U	12 U	12 U	NA	NA
Bromodichloromethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,2-Dichloropropane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
cis-1,3-Dichloropropene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Trichloroethene 5	6 U	6 U	6 U	6 U	170	NA	NA
Dibromochloromethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,1,2-Trichloroethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Benzene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
trans-1,3-Dichloropropene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Bromoform 5	6 U	6 U	6 U	6 U	6 U	NA	NA
4-Methyl-2-pentanone 10	12 U	12 U	12 U	12 U	12 U	NA	NA
2-Hexanone 10	12 U	12 U	12 U	12 U	12 U	NA	NA
Tetrachloroethene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
1,1,2,2-Tetrachloroethane 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Toluene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Chlorobenzene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Ethylbenzene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Styrene 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Xylenes (total) 5	6 U	6 U	6 U	6 U	6 U	NA	NA
Total TICs						NA	NA

Table 5B

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		W-08B	W-08B BLDUP	W-08 S2	W-09 S1	FEQBLK*	FEQBLK*	FEQBLK*
Latitude:		42-52-40	42-52-40	42-52-40	42-52-37	NA	NA	NA
Longitude:		73-09-02	73-09-02	73-09-02	73-09-03	NA	NA	NA
Sample ID #:		R2476	R2477	Q8201	Q7930	Q6953	Q7202	Q7813
Depth of Sample:		44-45'	44-45'	18-20'	2-4'	NA	NA	NA
Sample Date:		1/14/93	1/14/93	10/29/92	10/29/92	10/9/92	10/14/92	10/19/92
Percent Solids Results:		91%	91%	76%	84%	NA	NA	NA
Compound	Detection Limit							
Chloromethane	10	NA	NA	NA	NA	10 U	10 U	10 U
Bromomethane	10	NA	NA	NA	NA	10 U	10 U	10 U
Vinyl chloride	10	NA	NA	NA	NA	10 U	10 U	10 U
Chloroethane	10	NA	NA	NA	NA	10 U	10 U	10 U
Methylene chloride	5	NA	NA	NA	NA	5 U	5 U	5 U
Acetone	10	NA	NA	NA	NA	10 U	10 U	10 U
Carbon disulfide	5	NA	NA	NA	NA	5 U	5 U	5 U
1,1-Dichloroethene	5	NA	NA	NA	NA	5 U	5 U	5 U
1,1-Dichloroethane	5	NA	NA	NA	NA	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	NA	NA	NA	NA	5 U	5 U	5 U
Chloroform	5	NA	NA	NA	NA	6	5 U	5 U
1,2-Dichloroethane	5	NA	NA	NA	NA	5 U	5 U	5 U
2-Butanone	10	NA	NA	NA	NA	R	R	R
1,1,1-Trichloroethane	5	NA	NA	NA	NA	5 U	5 U	5 U
Carbon tetrachloride	5	NA	NA	NA	NA	5 U	5 U	5 U
Vinyl acetate	10	NA	NA	NA	NA	10 U	10 U	10 U
omodichloromethane	5	NA	NA	NA	NA	5 U	5 U	5 U
,2-Dichloropropane	5	NA	NA	NA	NA	5 U	5	5 U
cis-1,3-Dichloropropene	5	NA	NA	NA	NA	5 U	5 U	5 U
Trichloroethene	5	NA	NA	NA	NA	5 U	5 U	5 U
Dibromochloromethane	5	NA	NA	NA	NA	5 U	5 U	5 U
1,1,2-Trichloroethane	5	NA	NA	NA	NA	5 U	5 U	5 U
Benzene	5	NA	NA	NA	NA	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	NA	NA	NA	NA	5 U	5 U	5 U
Bromoform	5	NA	NA	NA	NA	5 U	5 U	5 U
4-Methyl-2-pentanone	10	NA	NA	NA	NA	10 U	10 U	10 U
2-Hexanone	10	NA	NA	NA	NA	10 U	10 U	10 U
Tetrachloroethene	5	NA	NA	NA	NA	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	NA	NA	NA	NA	5 U	5 U	5 U
Toluene	5	NA	NA	NA	NA	5 U	5 U	5 U
Chlorobenzene	5	NA	NA	NA	NA	5 U	5 U	5 U
Ethylbenzene	5	NA	NA	NA	NA	5 U	5 U	5 U
Styrene	5	NA	NA	NA	NA	5 U	5 U	5 U
Xylenes (total)	5	NA	NA	NA	NA	5 U	5 U	5 U
Total TICs		NA	NA	NA	NA	6 J	6 J	9 J

Table 5B

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		FEQBLK**	FEQBLK*	FEQBLK**	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	QC TR BK*
Latitude:		NA	NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA	NA
Sample ID #:		R1610	R2485	R2483	R3371	R3875	R4115	R8014	Q6881
Depth of Sample:		NA	NA	NA	NA	NA	NA	NA	NA
Sample Date:		12/16/92	1/7/93	1/7/93	1/20/93	1/27/93	1/29/93	3/25/93	10/8/92
Percent Solids Results:		NA	NA	NA	NA	NA	NA	NA	NA
Compound	Detection Limit								
Chloromethane	10	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Acetone	10	NA	10 U	NA	10 U	10 U	10 U	26 J	210
Carbon disulfide	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Chloroform	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	NA	10 U	NA	R	R	10 U	83 J	R
1,1,1-Trichloroethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U
romodichloromethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
,2-Dichloropropane	5	NA	5 U	NA	5	5 U	5 U	6	5 U
cis-1,3-Dichloropropene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Benzene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Bromoform	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	NA	5 U	NA	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Toluene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Styrene	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
Total TICs		NA	NA	NA	NA	NA	NA	NA	9 J

Table 5B

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		QC TR BK*	QC TR BK*	QC TR BK*	QC TR BK*	QC TR BK*	QC TR BK*	QC TR BK*
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		Q6954	Q7203	Q7451	Q7814	Q8202	R1703	R2486
Depth of Sample:		NA	NA	NA	NA	NA	NA	NA
Sample Date:		10/9/92	10/14/92	10/16/92	10/19/92	10/23/92	12/16/92	1/7/93
Percent Solids Results:		NA	NA	NA	NA	NA	NA	NA
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	12	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	5 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

Table 5B

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	QC TR BK*	QC TR BK*	QC TR BK*	QC TR BK*	QC TR BK1-5	QC TR BK4-5	SS-EQT/FLC-05
Latitude:	NA	NA	NA	NA	NA	NA	NA
Longitude:	NA	NA	NA	NA	NA	NA	NA
Sample ID #:	R3372	R3876	R4243	R8015	T7167	T7598	T8143
Depth of Sample:	NA	NA	NA	NA	NA	NA	NA
Sample Date:	1/20/93	1/27/93	2/2/93	3/25/93	5/18/94	5/27/94	6/09/94
Percent Solids Results:	NA	NA	NA	NA	NA	NA	NA
Compound / Detection Limit							
Chloromethane 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total) 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone 10	R	R	R	10 U	10 U	R	10 U
1,1,1-Trichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate 10	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
romodichloromethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
,2-Dichloropropane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total) 5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total TICs	NA	NA	NA	NA	NA	NA	NA

Table 5B

Soil Boring Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		QCTRPBK-5	FIELD/EB-05	QCTRIBLK-05	EQBLK 1-5	QC TR BK	EQT/FLD-05	QCTRPBK3-5
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		T8144	T5303	T5304	T4373	T4377	T7567	T7568
Depth of Sample:		NA	NA	NA	NA	NA	NA	NA
Sample Date:		6/09/94	4/13/94	4/13/94	3/28/94	3/28/94	5/26/94	5/26/94
Percent Solids Results:		NA	NA	NA	NA	NA	NA	NA
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	6	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	10 U	10 U	10 U	10 U	R	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	10 U	10 U	10 U	5 U	5 U	5 U	5 U
romodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	10 U	10 U	53	10 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	5 U	5 U	5 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

Table 5C

Soil Boring Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

	DESCRIPTION / LOCATION:	W-04B(AB)	W-07B	W-07B	W-08B	W-08B BLDUP	W-08 S2	W-09 S1	FEQBLK	FEQBLK
	Latitude:	42-52-38	42-52-44	42-52-44	42-52-40	42-52-40	42-52-40	42-52-37	NA	NA
	Longitude:	73-09-01	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-03	NA	NA
	Sample ID #:	R1602	Q7929	R1962	R2476	R2477	Q8201	Q7930	R1610	R2483
	Depth of Sample:	5-7'	7-9'	57-59'	18-20'	44-45'	18-20'	2-4'	NA	NA
	Sample Date:	12/16/92	10/20/92	12/21/92	1/14/93	1/14/93	10/29/92	10/29/92	12/16/92	1/7/93
	Percent Solids Results:	90%	89%	88%	91%	91%	76%	84%	NA	NA
	Detection Limit									
TOC [1]	1	667	191	322	357	363	292	529	5	18

NOTES:
Values reported in mg/kg dry weight (ppm).
NA - Not Applicable
[1] Subcontracted to Hudson Environmental Services.
AB - Abandoned

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SBW-14	SBW-14	SBW-14	SBW-15	SBW-15	SBW-15	SBW-16	SBW-16
Latitude	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-41	42-52-41
Longitude:	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:	Q7441	Q7442	Q7443	Q8198	Q8199	Q8200	Q6947	Q6948
Depth of Sample:	6-8'	8-10'	12-14'	2-4'	4-6'	8-10'	2-4'	4-6'
Sample Date:	10/15/92	10/15/92	10/15/92	10/23/92	10/23/92	10/23/92	10/8/92	10/8/92
Percent Solids Results:	91%	91%	94%	60%	63%	86%	72%	56%

Compound	Detection Limit															
Phenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
bis(2-Chloroethyl)ether	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2-Chlorophenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
1,3-Dichlorobenzene	330	360	U	360	U	350	U	1400	J	1100	J	620		460	UJ	590	UJ
1,4-Dichlorobenzene	330	360	U	360	U	350	U	5600		1700	J	1100		460	UJ	590	UJ
Benzyl alcohol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
1,2-Dichlorobenzene	330	360	U	360	U	350	U	2600	J	1300	J	730		460	UJ	590	UJ
2-Methylphenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
bis(2-Chloroisopropyl)ether	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
4-Methylphenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	1100	J
N-Nitroso-di-n-propylamine	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Hexachloroethane	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Nitrobenzene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
sophorone	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
-Nitrophenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
4-Dimethylphenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Benzoic acid	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
bis(2-Chloroethoxy)methane	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2,4-Dichlorophenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
1,2,4-Trichlorobenzene	330	360	U	360	U	350	U	820	J	520	UJ	380	U	460	UJ	590	UJ
Naphthalene	330	360	U	360	U	350	U	16000		4300	J	1300		460	UJ	590	UJ
4-Chloroaniline	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Hexachlorobutadiene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
4-Chloro-3-methylphenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2-Methylnaphthalene	330	360	U	360	U	350	U	6900		3300	J	900		460	UJ	590	UJ
Hexachlorocyclopentadiene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2,4,6-Trichlorophenol	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2,4,5-Trichlorophenol	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
2-Chloronaphthalene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2-Nitroaniline	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
Dimethylphthalate	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Acenaphthylene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SBW-14	SBW-14	SBW-14	SBW-15	SBW-15	SBW-15	SBW-16	SBW-16
Latitude	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-41	42-52-41
Longitude:	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:	Q7441	Q7442	Q7443	Q8198	Q8199	Q8200	Q6947	Q6948
Depth of Sample:	6-8'	8-10'	12-14'	2-4'	4-6'	8-10'	2-4'	4-6'
Sample Date:	10/15/92	10/15/92	10/15/92	10/23/92	10/23/92	10/23/92	10/8/92	10/8/92
Percent Solids Results:	91%	91%	94%	60%	63%	86%	72%	56%

Compound	Detection Limit															
2,6-Dinitrotoluene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
3-Nitroaniline	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
Acenaphthene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2,4-Dinitrophenol	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
4-Nitrophenol	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
Dibenzofuran	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
2,4-Dinitrotoluene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Diethylphthalate	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
4-Chlorophenyl-phenylether	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Fluorene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
4-Nitroaniline	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
4,6-Dinitro-2-methylphenol	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
N-Nitrosodiphenylamine	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
'-Bromophenyl-phenylether	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
exachlorobenzene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
'entachlorophenol	1600	1800	U	1800	U	1700	U	27000	U	2500	UJ	1900	U	2200	UJ	2900	UJ
Phenanthrene	330	360	U	360	U	350	U	1800	J	520	UJ	380	U	460	UJ	590	UJ
Anthracene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Di-n-butylphthalate	330	360	U	360	U	350	U	5500	U	1100	UJ	1400		460	UJ	590	UJ
Fluoranthene	330	360	U	360	U	350	U	1400	J	520	UJ	380	U	460	UJ	590	UJ
Pyrene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Butylbenzylphthalate	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
3,3'-Dichlorobenzidine	660	730	U	730	U	700	U	11000	U	1000	UJ	760	U	920	UJ	1200	UJ
Benzo(a)anthracene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Chrysene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
bis(2-Ethylhexyl)phthalate	330	360	U	360	U	350	U	19000		3400	J	2100		460	UJ	590	UJ
Di-n-octylphthalate	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Benzo(b)fluoranthene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Benzo(k)fluoranthene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Benzo(a)pyrene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Indeno(1,2,3-cd)pyrene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Dibenz(a,h)anthracene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Benzo(g,h,i)perylene	330	360	U	360	U	350	U	5500	U	520	UJ	380	U	460	UJ	590	UJ
Total TICs		320	J	NA		2230	J	648700	J	65630	J	30400	J	14420	J	16830	J

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was anlayzed and not detected.
UJ – Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-16	SBW-17	SBW-17	SBW-17	SBW-18A	SBW-18A	SBW-18A	SBW-18A BLDUP
Latitude		42-52-41	42-52-42	42-52-42	42-52-42	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-01	73-09-00	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		Q6949	Q6950	Q6951	Q6952	Q7198	Q7199	Q7200	Q7201
Depth of Sample:		8-10'	6-8'	8-10'	12-14'	4-6'	8-10'	12-14'	12-14'
Sample Date:		10/8/92	10/9/92	10/9/92	10/9/92	10/14/92	10/14/92	10/14/92	10/14/92
Percent Solids Results:		92%	61%	67%	86%	89%	77%	92%	90%
Compound	Detection Limit								
Phenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
bis(2-Chloroethyl)ether	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2-Chlorophenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
1,3-Dichlorobenzene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	1200	360 U	370 U
1,4-Dichlorobenzene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
Benzyl alcohol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
1,2-Dichlorobenzene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2-Methylphenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
bis(2-Chloroisopropyl)ether	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
4-Methylphenol	330	360 UJ	2900 J	490 UJ	1000 J	370 U	430 U	360 U	370 U
N-Nitroso-di-n-propylamine	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
Hexachloroethane	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
Nitrobenzene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
sophorone	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
-Nitrophenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2,4-Dimethylphenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
Benzoic acid	1600	1700 UJ	2600 UJ	2400 UJ	1900 UJ	1800 U	2100 U	1700 U	1800 U
bis(2-Chloroethoxy)methane	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2,4-Dichlorophenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
1,2,4-Trichlorobenzene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	1100	360 U	370 U
Naphthalene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
4-Chloroaniline	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
Hexachlorobutadiene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
4-Chloro-3-methylphenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2-Methylnaphthalene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	710	360 U	370 U
Hexachlorocyclopentadiene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2,4,6-Trichlorophenol	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2,4,5-Trichlorophenol	1600	1700 UJ	2600 UJ	2400 UJ	1900 UJ	1800 U	2100 U	1700 U	1800 U
2-Chloronaphthalene	330	360 UJ	540 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
2-Nitroaniline	1600	1700 UJ	2600 UJ	2400 UJ	1900 UJ	1800 U	2100 U	1700 U	1800 U
Dimethylphthalate	330	360 UJ	5400 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U
Acenaphthylene	330	360 UJ	5400 UJ	490 UJ	340 UJ	370 U	430 U	360 U	370 U

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SBW-16	SBW-17	SBW-17	SBW-17	SBW-18A	SBW-18A	SBW-18A	SBW-18A BLDUP
Latitude	42-52-41	42-52-42	42-52-42	42-52-42	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:	73-09-01	73-09-00	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:	Q6949	Q6950	Q6951	Q6952	Q7198	Q7199	Q7200	Q7201
Depth of Sample:	8-10'	6-8'	8-10'	12-14'	4-6'	8-10'	12-14'	12-14'
Sample Date:	10/8/92	10/9/92	10/9/92	10/9/92	10/14/92	10/14/92	10/14/92	10/14/92
Percent Solids Results:	92%	61%	67%	86%	89%	77%	92%	90%

Compound	Detection Limit																
2,6-Dinitrotoluene	330	360	UJ	5400	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
3-Nitroaniline	1600	1700	UJ	2600	UJ	2400	UJ	1900	UJ	1800	U	2100	U	1700	U	1800	U
Acenaphthene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
2,4-Dinitrophenol	1600	1700	UJ	2600	UJ	2400	UJ	1900	UJ	1800	U	2100	U	1700	U	1800	U
4-Nitrophenol	1600	1700	UJ	2600	UJ	2400	UJ	1900	UJ	1800	U	2100	U	1700	U	1800	U
Dibenzofuran	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
2,4-Dinitrotoluene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Diethylphthalate	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
4-Chlorophenyl-phenylether	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Fluorene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
4-Nitroaniline	1600	1700	UJ	2600	UJ	2400	UJ	1900	UJ	1800	U	2100	U	1700	U	1800	U
4,6-Dinitro-2-methylphenol	1600	1700	UJ	2600	UJ	2400	UJ	1900	UJ	1800	U	2100	U	1700	U	1800	U
N-Nitrosodiphenylamine	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
-Bromophenyl-phenylether	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
exachlorobenzene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Pentachlorophenol	1600	1700	UJ	2600	UJ	2400	UJ	1900	UJ	1800	U	2100	U	1700	U	1800	U
Phenanthrene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Anthracene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Di-n-butylphthalate	330	360	UJ	540	UJ	490	UJ	340	UJ	430	U	430	U	360	U	370	U
Fluoranthene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Pyrene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Butylbenzylphthalate	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
3,3'-Dichlorobenzidine	660	720	UJ	1100	UJ	990	UJ	770	UJ	740	U	860	U	720	U	670	U
Benzo(a)anthracene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Chrysene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
bis(2-Ethylhexyl)phthalate	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	1500		360	U	370	U
Di-n-octylphthalate	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Benzo(b)fluoranthene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Benzo(k)fluoranthene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Benzo(a)pyrene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Indeno(1,2,3-cd)pyrene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Dibenz(a,h)anthracene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Benzo(g,h,i)perylene	330	360	UJ	540	UJ	490	UJ	340	UJ	370	U	430	U	360	U	370	U
Total TICs		140	J	7150	J	5740	J	540	J	4250	J	125900	J	320	J	140	J

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SBW-19	SBW-19	SBW-19	SBW-20	SBW-20	SBW-20	SBW-21	SBW-21
Latitude	42-52-42	42-52-42	42-52-42	42-52-41	42-52-41	42-52-41	42-52-42	42-52-42
Longitude:	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:	Q6878	Q6879	Q6880	Q7444	Q7445	Q7446	Q7447	Q7448
Depth of Sample:	4-6'	6-8'	10-12'	6-8'	12-14'	20-22'	2-4'	12-14'
Sample Date:	10/8/92	10/8/92	10/8/92	10/15/92	10/15/92	10/15/92	10/15/92	10/15/92
Percent Solids Results:	60%	86%	89%	94%	84%	79%	81%	77%
Compound / Detection Limit								
Phenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
bis(2-Chloroethyl)ether 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2-Chlorophenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
1,3-Dichlorobenzene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
1,4-Dichlorobenzene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Benzyl alcohol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
1,2-Dichlorobenzene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2-Methylphenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
bis(2-Chloroisopropyl)ether 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
4-Methylphenol 330	2600	1200	370 U	350 U	390 U	420 U	410 U	430 U
N-Nitroso-di-n-propylamine 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Hexachloroethane 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Nitrobenzene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
ophorone 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Nitrophenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
,4-Dimethylphenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Benzoic acid 1600	2700 U	1900 U	1800 U	1700 U	1900 U	2000 U	2000 U	2100 U
bis(2-Chloroethoxy)methane 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2,4-Dichlorophenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
1,2,4-Trichlorobenzene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Naphthalene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
4-Chloroaniline 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Hexachlorobutadiene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
4-Chloro-3-methylphenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2-Methylnaphthalene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Hexachlorocyclopentadiene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2,4,6-Trichlorophenol 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2,4,5-Trichlorophenol 1600	2700 U	1900 U	1800 U	1700 U	1900 U	2000 U	2000 U	2100 U
2-Chloronaphthalene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
2-Nitroaniline 1600	2700 U	1900 U	1800 U	1700 U	1900 U	2000 U	2000 U	2100 U
Dimethylphthalate 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U
Acenaphthylene 330	550 U	380 U	370 U	350 U	390 U	420 U	410 U	430 U

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-19		SBW-19		SBW-19		SBW-20		SBW-20		SBW-20		SBW-21		SBW-21	
Latitude		42-52-42		42-52-42		42-52-42		42-52-41		42-52-41		42-52-41		42-52-42		42-52-42	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-00		73-09-00		73-09-00		73-09-00		73-09-00	
Sample ID #:		Q6878		Q6879		Q6880		Q7444		Q7445		Q7446		Q7447		Q7448	
Depth of Sample:		4-6'		6-8'		10-12'		6-8'		12-14'		20-22'		2-4'		12-14'	
Sample Date:		10/8/92		10/8/92		10/8/92		10/15/92		10/15/92		10/15/92		10/15/92		10/15/92	
Percent Solids Results:		60%		86%		89%		94%		84%		79%		81%		77%	
Compound	Detection Limit																
2,6-Dinitrotoluene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
3-Nitroaniline	1600	2700	U	1900	U	1800	U	1700	U	1900	U	2000	U	2000	U	2100	U
Acenaphthene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
2,4-Dinitrophenol	1600	2700	U	1900	U	1800	U	1700	U	1900	U	2000	U	2000	U	2100	U
4-Nitrophenol	1600	2700	U	1900	U	1800	U	1700	U	1900	U	2000	U	2000	U	2100	U
Dibenzofuran	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
2,4-Dinitrotoluene	330	550	UJ	380	UJ	370	UJ	350	U	390	U	420	U	410	U	430	U
Diethylphthalate	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
4-Chlorophenyl-phenylether	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Fluorene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
4-Nitroaniline	1600	2700	U	1900	U	1800	U	1700	U	1900	U	2000	U	2000	U	2100	U
4,6-Dinitro-2-methylphenol	1600	2700	U	1900	U	1800	U	1700	U	1900	U	2000	U	2000	U	2100	U
N-Nitrosodiphenylamine	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
-Bromophenyl-phenylether	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
exachlorobenzene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Pentachlorophenol	1600	2700	U	1900	U	1800	U	1700	U	1900	U	2000	U	2000	U	2100	U
Phenanthrene	330	570		380	U	370	U	350	U	390	U	420	U	410	U	430	U
Anthracene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Di-n-butylphthalate	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Fluoranthene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Pyrene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	460	
Butylbenzylphthalate	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
3,3'-Dichlorobenzidine	660	1100	U	770	U	740	U	700	U	790	U	840	U	810	U	860	U
Benzo(a)anthracene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Chrysene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
bis(2-Ethylhexyl)phthalate	330	550	U	380	U	370	U	350	U	970		420	U	410	U	430	U
Di-n-octylphthalate	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Benzo(b)fluoranthene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Benzo(k)fluoranthene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Benzo(a)pyrene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Indeno(1,2,3-cd)pyrene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Dibenz(a,h)anthracene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Benzo(g,h,i)perylene	330	550	U	380	U	370	U	350	U	390	U	420	U	410	U	430	U
Total TICs		103100	J	6780	J	1500	J	760	J	17020	J	360	J	5020	J	30670	J

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-21	SBW-10	SBW-10	SBW-10	SBW-10 BLDUP	W-01 S1	W-01 S1	W-01B
Latitude		42-52-42	42-52-45	42-52-45	42-52-45	42-52-45	42-52-44	42-52-44	42-52-44
Longitude:		73-09-00	73-08-59	73-08-59	73-08-59	73-08-59	73-08-58	73-08-58	73-08-58
Sample ID #:		Q7449	Q7450	Q7810	Q7811	Q7812	Q6876	Q6877	R3868
Depth of Sample:		20-22'	8-10'	10-12'	14-16'	14-16'	6-8'	10-12'	32-34'
Sample Date:		10/15/92	10/16/92	10/19/92	10/19/92	10/19/92	10/7/92	10/8/92	1/27/93
Percent Solids Results:		85%	81%	85%	85%	84%	87%	90%	89%
Compound	Detection Limit								
Phenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
bis(2-Chloroethyl)ether	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2-Chlorophenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
1,3-Dichlorobenzene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
1,4-Dichlorobenzene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Benzyl alcohol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
1,2-Dichlorobenzene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2-Methylphenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
bis(2-Chloroisopropyl)ether	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
4-Methylphenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
N-Nitroso-di-n-propylamine	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Hexachloroethane	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Nitrobenzene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
ophorone	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
-Nitrophenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2,4-Dimethylphenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Benzoic acid	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
bis(2-Chloroethoxy)methane	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2,4-Dichlorophenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
1,2,4-Trichlorobenzene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Naphthalene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
4-Chloroaniline	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Hexachlorobutadiene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
4-Chloro-3-methylphenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2-Methylnaphthalene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Hexachlorocyclopentadiene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2,4,6-Trichlorophenol	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2,4,5-Trichlorophenol	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
2-Chloronaphthalene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2-Nitroaniline	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
Dimethylphthalate	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Acenaphthylene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-21	SBW-10	SBW-10	SBW-10	SBW-10 BLDUP	W-01 S1	W-01 S1	W-01B
Latitude		42-52-42	42-52-45	42-52-45	42-52-45	42-52-45	42-52-44	42-52-44	42-52-44
Longitude:		73-09-00	73-08-59	73-08-59	73-08-59	73-08-59	73-08-58	73-08-58	73-08-58
Sample ID #:		Q7449	Q7450	Q7810	Q7811	Q7812	Q6876	Q6877	R3868
Depth of Sample:		20-22'	8-10'	10-12'	14-16'	14-16'	6-8'	10-12'	32-34'
Sample Date:		10/15/92	10/16/92	10/19/92	10/19/92	10/19/92	10/7/92	10/8/92	1/27/93
Percent Solids Results:		85%	81%	85%	85%	84%	87%	90%	89%
Compound	Detection Limit								
2,6-Dinitrotoluene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
3-Nitroaniline	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
Acenaphthene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2,4-Dinitrophenol	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
4-Nitrophenol	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
Dibenzofuran	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
2,4-Dinitrotoluene	330	390 U	410 U	390 U	390 U	390 U	380 UJ	370 UJ	370 U
Diethylphthalate	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
4-Chlorophenyl-phenylether	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Fluorene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
4-Nitroaniline	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
4,6-Dinitro-2-methylphenol	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
N-Nitrosodiphenylamine	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
-Bromophenyl-phenylether	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
exachlorobenzene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Pentachlorophenol	1600	1900 U	2000 U	1900 U	1900 U	1900 U	1800 U	1800 U	1800 U
Phenanthrene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Anthracene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Di-n-butylphthalate	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Fluoranthene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Pyrene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Butylbenzylphthalate	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
3,3'-Dichlorobenzidine	660	780 U	810 U	780 U	780 U	790 U	760 U	1800 U	740 U
Benzo(a)anthracene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Chrysene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
bis(2-Ethylhexyl)phthalate	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Di-n-octylphthalate	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Benzo(b)fluoranthene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Benzo(k)fluoranthene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Benzo(a)pyrene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Indeno(1,2,3-cd)pyrene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Dibenz(a,h)anthracene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Benzo(g,h,i)perylene	330	390 U	410 U	390 U	390 U	390 U	380 U	370 U	370 U
Total TICs		480 J	150 J	1860 J	1030 J	1200 J	NA	280 J	NA

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was anlayzed and not detected.
UJ – Non-detected results are approximated.

10660
12000
810

Table 6

Soil Boring Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	WTP-12-05	WTP-12-05 BDSB-2-5	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	EQBLK-05
Latitude	42-52-40	42-52-40	NA	NA	NA	NA	NA	NA
Longitude:	73-09-01	73-09-01	NA	NA	NA	NA	NA	NA
Sample ID #:	T8145	T8146	Q6953	Q6953RS	Q7202	Q7813	R4115	T8149
Depth of Sample:	22'6"-24'6"	22'6"-24'6"	NA	NA	NA	NA	NA	NA
Sample Date:	6/07/94	6/07/94	10/9/92	10/9/92	10/14/92	10/19/92	1/29/93	6/9/94
Percent Solids Results:	80.8%	78.7%	NA	NA	NA	NA	NA	NA
Compound / Detection Limit								
Phenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
bis(2-Chloroethyl)ether 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2-Chlorophenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
1,3-Dichlorobenzene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
1,4-Dichlorobenzene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Benzyl alcohol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
1,2-Dichlorobenzene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2-Methylphenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
bis(2-Chloroisopropyl)ether 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
4-Methylphenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
N-Nitroso-di-n-propylamine 330	410 UJ	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Hexachloroethane 330	410 U	420 U	13 UJ	13 U	10 UJ	10 U	10 U	9.7 U
Nitrobenzene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
isophorone 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2-Nitrophenol 330	410 UJ	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2,4-Dimethylphenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Benzoic acid 1600	2000 U	2100 U	R	R	50 U	50 U	50 U	49 U
bis(2-Chloroethoxy)methane 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2,4-Dichlorophenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
1,2,4-Trichlorobenzene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Naphthalene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
4-Chloroaniline 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Hexachlorobutadiene 330	410 U	420 U	13 UJ	13 U	9 U	9 U	10 U	9.7 U
4-Chloro-3-methylphenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2-Methylnaphthalene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Hexachlorocyclopentadiene 330	410 U	420 U	13 UJ	13 U	9 U	9 U	10 U	9.7 U
2,4,6-Trichlorophenol 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2,4,5-Trichlorophenol 1600	2000 U	2100 U	63 UJ	63 U	50 U	50 U	50 U	49 U
2-Chloronaphthalene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2-Nitroaniline 1600	2000 U	2100 U	63 UJ	63 U	50 U	50 U	50 U	49 U
Dimethylphthalate 330	410 U	420 U	13 UJ	13 U	10 UJ	10 U	10 U	9.7 U
Acenaphthylene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was anlayzed and not detected.
UJ - Non-detected results are approximated.

Table 6

Soil Boring Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	WTP-12-05	WTP-12-05 BDSB-2-5	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	EQBLK-05
Latitude	42-52-40	42-52-40	NA	NA	NA	NA	NA	NA
Longitude:	73-09-01	73-09-01	NA	NA	NA	NA	NA	NA
Sample ID #:	T8145	T8146	Q6953	Q6953RS	Q7202	Q7813	R4115	T8149
Depth of Sample:	22'6"-24'6"	22'6"-24'6"	NA	NA	NA	NA	NA	NA
Sample Date:	6/07/94	6/07/94	10/9/92	10/9/92	10/14/92	10/19/92	1/29/93	6/9/94
Percent Solids Results:	80.8%	78.7%	NA	NA	NA	NA	NA	NA
Compound / Detection Limit								
2,6-Dinitrotoluene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	49 U
3-Nitroaniline 1600	2000 U	2100 U	63 UJ	63 U	50 U	50 U	50 U	9.7 U
Acenaphthene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	49 U
2,4-Dinitrophenol 1600	2000 U	2100 U	63 UJ	63 UJ	50 U	50 U	50 U	49 U
4-Nitrophenol 1600	2000 U	2100 U	63 UJ	63 U	50 U	50 U	50 U	9.7 U
Dibenzofuran 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
2,4-Dinitrotoluene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Diethylphthalate 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
4-Chlorophenyl-phenylether 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Fluorene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
4-Nitroaniline 1600	2000 U	2100 U	63 UJ	63 U	50 U	50 U	50 U	49 U
4,6-Dinitro-2-methylphenol 1600	2000 U	2100 U	63 UJ	63 U	50 U	50 U	50 U	49 U
N-Nitrosodiphenylamine 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
-Bromophenyl-phenylether 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
exachlorobenzene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Pentachlorophenol 1600	2000 U	2100 U	63 UJ	63 U	50 U	25 U	50 U	9.7 U
Phenanthrene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Anthracene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Di-n-butylphthalate 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Fluoranthene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Pyrene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Butylbenzylphthalate 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
3,3'-Dichlorobenzidine 660	788 U	810 U	25 UJ	25 U	20 U	20 U	20 U	19 U
Benzo(a)anthracene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Chrysene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
bis(2-Ethylhexyl)phthalate 330	3800 U	3800 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Di-n-octylphthalate 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Benzo(b)fluoranthene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Benzo(k)fluoranthene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Benzo(a)pyrene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Indeno(1,2,3-cd)pyrene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Dibenz(a,h)anthracene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Benzo(g,h,i)perylene 330	410 U	420 U	13 UJ	13 U	10 U	10 U	10 U	9.7 U
Total TICs	NA	NA	24 J	15 J	10 J	36 J	NA	NA

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was anlayzed and not detected.
UJ – Non-detected results are approximated.

Table 7

Soil Boring PCB/Pesticide Analyses - Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-14		SBW-14		SBW-14		SBW-15		SBW-15		SBW-15		SBW-16		SBW-16	
Latitude:		42-52-40		42-52-40		42-52-40		42-52-40		42-52-40		42-52-40		42-52-41		42-52-41	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01	
Sample ID #:		Q7441		Q7442		Q7443		Q8198		Q8199		Q8200		Q6947		Q6948	
Depth of Sample:		6-8'		8-10'		12-14'		2-4'		4-6'		8-10'		2-4'		4-6'	
Sample Date:		10/15/92		10/15/92		10/15/92		10/23/92		10/23/92		10/23/92		10/8/92		10/8/92	
Percent Solids Results:		91%		91%		94%		60%		63%		86%		72%		56%	
Compound	Detection Limit																
alpha-BHC	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
gamma-BHC	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
beta-BHC	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
Heptachlor	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
delta-BHC	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
Aldrin	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
Heptachlor epoxide	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
Endosulfan I	8	9	U	9	U	9	U	1300	U	130	U	10	U	11	U	360	U
4,4'-DDE	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
Dieldrin	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
Endrin	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
4,4'-DDD	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
Endosulfan II	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
4,4'-DDT	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
Endosulfan sulfate	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
ndrin aldehyde	16		R		R		R		R		R		R		R		R
ethoxychlor	80	90	U	90	U	85	U	13000	U	1300	U	93	U	110	U	3600	U
ndrin ketone	16	18	U	18	U	17	U	2700	U	250	U	19	U	22	U	700	U
Chlordane	80	90	U	90	U	85	U	13000	U	1300	U	93	U	110	U	3600	U
Toxaphene	160	180	U	180	U	170	U	27000	U	2500	U	190	U	220	U	7100	U
PCB-1221	*	180	U	180	U	170	U	27000	U	2500	U	190	U	220	U	7100	U
PCB-1232	*	180	U	180	U	170	U	27000	U	2500	U	190	U	220	U	7100	U
PCB-1016/1242	*	180	U	180	U	170	U	27000	U	2500	U	190	U	220	U	7100	U
PCB-1248	*	180	U	180	U	170	U	27000	U	2500	U	190	U	220	U	7100	U
PCB-1254	*	180	U	180	U	170	U	27000	U	2500	U	190	U	270	J	7100	U
PCB-1260	*	180	U	180	U	170	U	27000	U	25000	J	370		220	U	7100	U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
*Detection Limit for total PCBs is 160.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 7

Soil Boring PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-16		SBW-17		SBW-17		SBW-17		SBW-18A		SBW-18A		SBW-18A		SBW-18A BLDUP	
Latitude:		42-52-41		42-52-42		42-52-42		42-52-42		42-52-40		42-52-40		42-52-40		42-52-40	
Longitude:		73-09-01		73-09-00		73-09-00		73-09-00		73-09-01		73-09-01		73-09-01		73-09-01	
Sample ID #:		Q6949		Q6950		Q6951		Q6952		Q7198		Q7199		Q7200		Q7201	
Depth of Sample:		8-10'		6-8'		8-10'		12-14'		4-6'		8-10'		12-14'		12-14'	
Sample Date:		10/8/92		10/9/92		10/9/92		10/9/92		10/14/92		10/14/92		10/14/92		10/14/92	
Percent Solids Results:		92%		61%		67%		86%		89%		77%		92%		90%	
Compound	Detection Limit																
alpha-BHC	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
gamma-BHC	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
beta-BHC	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
Heptachlor	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
delta-BHC	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
Aldrin	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
Heptachlor epoxide	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
Endosulfan I	8	9	U	13	U	12	U	9	U	9	U	10	U	9	U	9	U
4,4'-DDE	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
Dieldrin	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
Endrin	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
4,4'-DDD	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
Endosulfan II	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
4,4'-DDT	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
Endosulfan sulfate	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
ndrin aldehyde	16		R		R		R		R		R		R		R		R
ethoxychlor	80	87	U	130	U	120	U	93	U	90	U	100	U	87	U	89	U
Endrin ketone	16	17	U	26	U	24	U	19	U	18	U	21	U	17	U	18	U
Chlordane	80	87	U	130	U	120	U	93	U	90	U	100	U	87	U	89	U
Toxaphene	160	170	U	260	U	240	U	190	U	180	U	210	U	170	U	180	U
PCB-1221	*	170	U	260	U	240	U	190	U	180	U	210	U	170	U	180	U
PCB-1232	*	170	U	260	U	240	U	190	U	180	U	210	U	170	U	180	U
PCB-1016/1242	*	170	U	260	U	240	U	190	U	180	U	210	U	170	U	180	U
PCB-1248	*	170	U	260	U	240	U	190	U	180	U	210	U	170	U	180	U
PCB-1254	*	170	U	170	J	240	U	190	U	180	U	590	J	170	U	180	U
PCB-1260	*	170	U	260	U	240	U	190	U	880	J	210	U	110	J	100	J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
*Detection Limit for total PCBs is 160.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 7

Soil Boring PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-19		SBW-19		SBW-19		SBW-20		SBW-20		SBW-20		SBW-21		SBW-21	
Latitude:		42-52-42		42-52-42		42-52-42		42-52-41		42-52-41		42-52-41		42-52-42		42-52-42	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-00		73-09-00		73-09-00		73-09-00		73-09-00	
Sample ID #:		Q6878		Q6879		Q6880		Q7444		Q7445		Q7446		Q7447		Q7448	
Depth of Sample:		4-6'		6-8'		10-12'		6-8'		12-14'		20-22'		-4'		12-14'	
Sample Date:		10/8/92		10/8/92		10/8/92		10/15/92		10/15/92		10/15/92		10/15/92		10/15/92	
Percent Solids Results:		60%		86%		89%		94%		84%		79%		81%		77%	
Compound	Detection Limit																
alpha-BHC	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
gamma-BHC	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
beta-BHC	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
Heptachlor	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
delta-BHC	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
Aldrin	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
Heptachlor epoxide	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
Endosulfan I	8	13	U	10	U	9	U	9	U	10	U	10	U	10	U	10	U
4,4'-DDE	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
Dieldrin	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
Endrin	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
4,4'-DDD	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
Endosulfan II	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
4,4'-DDT	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
Endosulfan sulfate	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
ndrin aldehyde	16		R		R		R		R		R		R		R		R
lethoxychlor	80	130	U	93	U	90	U	85	U	100	U	100	U	100	U	100	U
Endrin ketone	16	27	U	19	U	18	U	17	U	19	U	20	U	20	U	21	U
Chlordane	80	130	U	93	U	90	U	85	U	100	U	100	U	100	U	100	U
Toxaphene	160	270	U	190	U	180	U	170	U	190	U	200	U	200	U	210	U
PCB-1221	*	270	U	190	U	180	U	170	U	190	U	200	U	200	U	210	U
PCB-1232	*	270	U	190	U	180	U	170	U	190	U	200	U	200	U	210	U
PCB-1016/1242	*	1200	J	190	U	180	U	170	U	190	U	200	U	200	U	210	U
PCB-1248	*	270	U	190	U	180	U	170	U	190	U	200	U	200	U	210	U
PCB-1254	*	660	J	190	U	180	U	180	J	190	U	200	U	200	U	210	U
PCB-1260	*	270	U	190	U	180	U	170	U	190	U	200	U	200	U	210	U

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
*Detection Limit for total PCBs is 160.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
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Table 7

Soil Boring PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-21	SBW-10	SBW-10	SBW-10	SBW-10 BLDUP	WTP-12-05	WTP-12-05	WTP-12-05 BDSB-3-5
Latitude:		42-52-42	42-52-45	42-52-45	42-52-45	42-52-45	42-52-40	42-52-40	42-52-40
Longitude:		73-09-00	73-08-59	73-08-59	73-08-59	73-08-59	73-09-01	73-09-01	73-09-01
Sample ID #:		Q7449	Q7450	Q7810	Q7811	Q7812	T8145	T8147	T8148
Depth of Sample:		20-22'	8-10'	10-12'	14-16'	14-16'	22'6"-24'6"	24'6"-26'6"	24'6"-26'6"
Sample Date:		10/15/92	10/16/92	10/19/92	10/19/92	10/19/92	6/7/94	6/7/94	6/7/94
Percent Solids Results:		85%	81%	85%	85%	84%	80.8%	80.3%	78.3%
Compound	Detection Limit								
alpha-BHC	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
gamma-BHC	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
beta-BHC	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
Heptachlor	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
delta-BHC	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
Aldrin	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
Heptachlor epoxide	8	10 U	10 U	9 U	10 U	10 U	9.9 U	10 U	10 U
Endosulfan I	8	10 U	10 U	9 U	10 U	10 U	20 U	20 U	20 U
4,4'-DDE	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
Dieldrin	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
Endrin	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
4,4'-DDD	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
Endosulfan II	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
4,4'-DDT	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
Endosulfan sulfate	16	19 U	20 U	19 U	19 U	19 U	20 U	20 U	20 U
Endrin aldehyde	16	R	R	R	R	R	40 U	40 U	41 U
Methoxychlor	80	94 U	99 U	94 U	94 U	95 U	99 U	100 U	100 U
Endrin ketone	16	19 U	20 U	19 U	19 U	19 U	9.9 U	10 U	10 U
Chlordane	80	94 U	99 U	94 U	94 U	95 U	99 U	100 U	100 U
Toxaphene	160	190 U	200 U	190 U	190 U	190 U	200 U	200 U	200 U
PCB-1221	*	190 U	200 U	190 U	190 U	190 U	99 U	100 U	100 U
PCB-1232	*	190 U	200 U	190 U	190 U	190 U	99 U	100 U	100 U
PCB-1016/1242	*	190 U	200 U	190 U	190 U	190 U	99 U	100 U	100 U
PCB-1248	*	190 U	200 U	190 U	190 U	190 U	99 U	100 U	100 U
PCB-1254	*	190 U	200 U	190 U	190 U	190 U	200 U	200 U	200 U
PCB-1260	*	190 U	200 U	190 U	190 U	190 U	200 U	200 U	200 U

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
*Detection Limit for total PCBs is 160.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 7

Soil Boring PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SS-EQ/FLD-BLK-05		FEQBLK*		FEQBLK*		FEQBLK*	
Latitude:		NA		NA		NA		NA	
Longitude:		NA		NA		NA		NA	
Sample ID #:		T8149		Q6953		Q7202		Q7813	
Depth of Sample:		NA		NA		NA		NA	
Sample Date:		6/07/94		10/9/92		10/14/92		10/19/92	
Percent Solids Results:		NA		NA		NA		NA	
Compound	Detection Limit								
alpha-BHC	8	0.049	U	0.05	U	0.05	U	0.05	U
gamma-BHC	8	0.049	U	0.05	U	0.05	U	0.05	U
beta-BHC	8	0.049	U	0.05	U	0.05	U	0.05	U
Heptachlor	8	0.049	U	0.05	U	0.05	U	0.05	U
delta-BHC	8	0.049	U	0.05	U	0.05	U	0.05	U
Aldrin	8	0.049	U	0.05	U	0.05	U	0.05	U
Heptachlor epoxide	8	0.049	U	0.05	U	0.05	U	0.05	U
Endosulfan I	8	0.098	U	0.05	U	0.05	U	0.05	U
4,4'-DDE	16	0.098	U	0.10	U	0.10	U	0.10	U
Dieldrin	16	0.013	U	0.01	U	0.01	U	0.01	U
Endrin	16	0.026	U	0.03	U	0.03	U	0.03	U
4,4'-DDD	16	0.098	U	0.10	U	0.10	U	0.10	U
Endosulfan II	16	0.054	U	0.06	U	0.06	U	0.06	U
4,4'-DDT	16	0.049	U	0.05	U	0.05	U	0.05	U
Endosulfan sulfate	16	0.098	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	16	0.2	U		R		R		R
Methoxychlor	80	0.19	U	0.20	U	0.20	U	0.20	U
Endrin ketone	16	0.049	U	0.10	U	0.10	U	0.10	U
Chlordane	80	0.049	U	0.05	U	0.05	U	0.05	U
Toxaphene	160	0.98	U	1.00	U	1.00	U	1.00	U
PCB-1221	*	0.49	U	0.50	U	0.50	U	0.50	U
PCB-1232	*	0.49	U	0.50	U	0.50	U	0.50	U
PCB-1016/1242	*	0.49	U	0.50	U	0.50	U	0.50	U
PCB-1248	*	0.49	U	0.50	U	0.50	U	0.50	U
PCB-1254	*	0.98	U	0.50	U	0.50	U	0.50	U
PCB-1260	*	0.98	U	0.50	U	0.50	U	0.50	U

NOTES:

Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
*Detection Limit for total PCBs is 160.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
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Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-14		SBW-14		SBW-14		SBW-15		SBW-15		SBW-15		SBW-16	
Latitude:		42-52-40		42-52-40		42-52-40		42-52-40		42-52-40		42-52-40		42-52-41	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01	
Sample ID #:		Q7441		Q7442		Q7443		Q8198		Q8199		Q8200		Q6947	
Depth of Sample:		6-8'		8-10'		12-14'		2-4'		4-6'		8-10'		2-4'	
Sample Date:		10/15/92		10/15/92		10/15/92		10/23/92		10/23/92		10/23/92		10/8/92	
Percent Solids Results:		91%		91%		94%		60%		63%		86%		72%	
Analyte	CRDL Detection Limit														
Aluminum	40	4480		5550		3710		6000		6000		3660		5030	
Antimony	12	2.2	UJ	2.2	UJ	2.1	UJ	11.1	UJ	8.8	UJ	2.3	UJ	4.6	UJ
Arsenic	2	1	J	1.3		1.1		3.3	U	3.5		1.3		1.5	
Barium	40	25.5		27.8		26.4		44.1		39.4		21.7	J	32.7	
Beryllium	1	0.35	J	0.38	J	0.33	J	0.43	J	0.4	J	0.3	J	0.49	J
Cadmium	1	0.22	U	0.22	U	0.21	U	0.77		0.44	J	0.23	U	0.28	U
Calcium	1000	808		855		1140		6850		3070		758		19800	
Chromium	2	10.2		6		4.9		20.2		12.3		4.3		7.1	
Cobalt	10	4.4	J	5.7		4.2	J	7.9	J	4.9	J	3.8	J	5.6	J
Copper	5	7.2	J	6.8	J	6.7	J	107	J	72.9	J	8.1	J	9.6	
Iron	20	8430		8900		8370		10200		8860		7350		10500	
Lead*	1	374	J	28	J	41.2	J	50900	J	14000	J	286	J	62.9	J
Magnesium	1000	1370		1380		1290		2670		1770		1340		6450	J
Manganese	3	146	J	143	J	142	J	440	J	2360	J	159	J	212	
Mercury	0.04	0.11	U	0.22	J	0.11	U	5.6		30.8		0.3	J	0.14	U
lickel	8	11.8		7		10.9		7120		1700		16.9		6.6	
Potassium	1000	774	J	864	J	812	J	931	J	2560	J	1220	J	524	UJ
Selenium	1	0.33	UJ	0.33	UJ	0.32	UJ	5	UJ	0.48	UJ	0.35	UJ	0.42	UJ
Silver	2	0.22	UJ	0.22	UJ	0.21	UJ	9.9	J	21	J	0.34	UJ	0.28	UJ
Sodium	1000	198	J	243		101	J	300	J	688	J	188	J	199	J
Thallium	2	0.11	U	0.11	U	0.15	J	0.17	U	0.16	UJ	0.12	J	0.15	J
Vanadium	10	8.3		9.1		7.8		9.8		10.5		6.9		10.7	
Zinc	4	25.7		22.2		17.3		756		1860		19.7		37	
Cyanide	2	0.28	U	0.27	U	0.26	U	0.41	U	0.71		0.29	U	1.3	J

NOTES:
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NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
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Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-16		SBW-16		SBW-17		SBW-17		SBW-17		SBW-18A		SBW-18A	
Latitude:		42-52-41		42-52-41		42-52-42		42-52-42		42-52-42		42-52-40		42-52-40	
Longitude:		73-09-01		73-09-01		73-09-00		73-09-00		73-09-00		73-09-01		73-09-01	
Sample ID #:		Q6948		Q6949		Q6950		Q6951		Q6952		Q7198		Q7199	
Depth of Sample:		4-6'		8-10'		6-8'		8-10'		12-14'		4-6'		8-10'	
Sample Date:		10/8/92		10/8/92		10/9/92		10/9/92		10/9/92		10/14/92		10/14/92	
Percent Solids Results:		56%		92%		61%		67%		86%		89%		77%	
Analyte	CRDL Detection Limit														
Aluminum	40	6010		619		6320		438		4150		4100		7890	
Antimony	12	3.6	UJ	2.2	UJ	3.3	UJ	3	UJ	2.3	UJ	4	UJ	39.9	J
Arsenic	2	1.7	J	0.72	J	1.6	J	1.6		0.81	J	1.2		1.3	UJ
Barium	40	42.7		8.6	J	43.4		11.1	J	29.3		24.3		83.2	
Beryllium	1	0.65	J	0.01	U	0.59	J	0.01	U	0.42	J	0.4	J	0.47	J
Cadmium	1	0.36	U	0.43		0.33	U	0.3	U	0.23	U	0.22	U	0.26	U
Calcium	1000	8190		849		4020		1180		1040		2090		2410	
Chromium	2	7.8		8.3		8.2		5		7.1		9.2		31.4	
Cobalt	10	5.4	J	0.53	J	4.6	J	0.6	U	6.4		4.7	J	2.6	J
Copper	5	11.7		3.3		8.4		2.3		6.9		10.2		68.2	
Iron	20	11700		954		10800		462		8450		11200		8370	
Lead	1	47.2	J	2.5		39.2		38.4		3.1		2130	J	115000	J
Magnesium	1000	4860	J	288	UJ	2730	J	376	UJ	1620	J	1630	J	1250	J
Manganese	3	170		8.3		175		3.8		84.4		625		115	
Mercury	0.04	0.18	U	0.11	U	0.17	U	1.7	J	0.12	U	0.78	J	0.46	J
ickel	8	9.1		1.7	J	7.3		0.9	U	11.1		15		1850	
Potassium	1000	649	UJ	49.1	UJ	729	UJ	67.5	UJ	653	J	743	J	6770	J
Selenium	1	0.54	U	0.33	U	0.5	UJ	0.45	U	0.35	U	0.34	UJ	R	
Silver	2	0.36	UJ	0.22	UJ	0.33	UJ	0.3	UJ	0.23	UJ	0.22	UJ	31.9	
Sodium	1000	232	J	10400		201	J	15300		153	J	166	J	1970	
Thallium	2	0.18	J	0.14	J	0.17	U	0.36	J	0.21	J	0.17	J	0.13	UJ
Vanadium	10	10.9		0.52	J	11.8		0.6	U	7.8		8.6		9.1	
Zinc	4	51.8		7.2		41.4		6.9		32		42.1		143	
Cyanide	2	1.5	J	0.27	U	1.7	J	2	J	0.29	U	0.28	U	0.33	U

NOTES:
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*Values reported in µg/l (ppb).
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NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-18A	SBW-18A BLDUP	SBW-19	SBW-19	SBW-19	SBW-20	SBW-20
Latitude:		42-52-40	42-52-40	42-52-42	42-52-42	42-52-42	42-52-41	42-52-41
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00
Sample ID #:		Q7200	Q7201	Q6878	Q6879	Q6880	Q7444	Q7445
Depth of Sample:		12-14'	12-14'	4-6'	6-8'	10-12'	6-8'	12-14'
Sample Date:		10/14/92	10/14/92	10/8/92	10/8/92	10/8/92	10/15/92	10/15/92
Percent Solids Results:		92%	90%	60%	86%	89%	94%	84%
Analyte	CRDL Detection Limit							
Aluminum	40	3600	3950	5300	6460	3630	4720	5780
Antimony	12	3.6 UJ	3.4 UJ	3.4 UJ	2.3 UJ	2.2 UJ	2.1 UJ	2.4 UJ
Arsenic	2	0.87 J	0.9 J	1.7	2	1 J	1.9	1.5
Barium	40	25.9	31.3	38.3	29.9	20.2 J	39	99
Beryllium	1	0.38 J	0.39 J	0.61 J	0.41 J	0.41 J	0.36 J	0.41 J
Cadmium	1	0.22 U	0.22 U	0.34 U	0.26 J	0.22 U	0.21 U	0.26 J
Calcium	1000	1330	1510	1800	891	643	7230	1080
Chromium	2	6.6	6.6	8.4	6	4	5.8	5.7
Cobalt	10	4.3 J	4 J	7.5 J	4.1 J	2.9 J	6.8	5.1 J
Copper	5	6.4	6.4	10.8	6.3	5.7	8.9 J	6.8 J
Iron	20	8550	8820	12100	9120	7840	10300	9740
Lead	1	2390 J	2520 J	19.9 J	33.3	3.9	10.1 J	48.8
Magnesium	1000	1500 J	1530 J	2100 J	1030 J	1240 J	3130	1150
Manganese	3	165	221	108	74.2	125	281 J	130 J
Mercury	0.04	0.11 U	0.11 U	0.17 U	0.12 U	0.11 U	0.11 U	0.12 U
ickel	8	23.8	23.5	8.4	6.8	4.5 J	7.2	5.3
otassium	1000	1550 J	1600 J	787 J	189 UJ	497 UJ	797 J	671 J
Selenium	1	0.33 UJ	0.33 U	0.5 U	0.35 U	0.34 U	0.32 UJ	0.36 UJ
Silver	2	0.22 UJ	0.22 UJ	0.34 U	0.231586XUJ	0.22 UJ	0.3 UJ	0.24 UJ
Sodium	1000	382 J	447 J	193 J	186 J	183 J	133 J	147 J
Thallium	2	0.11 J	0.16 J	0.17 U	0.13 J	0.13 J	0.11 U	0.12 U
Vanadium	10	8.7	9.2	10.2	10.4	5.8	9.5	9.9
Zinc	4	73.2	73.8	96.6	26.4	15.5	62.2	91.1
Cyanide	2	0.27 U	0.28 U	1.1 J	0.29 U	0.28 U	0.27 U	0.3 U

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-20		SBW-21		SBW-21		SBW-21		SBW-10		SBW-10		SBW-10	
Latitude:		42-52-41		42-52-42		42-52-42		42-52-42		42-52-45		42-52-45		42-52-45	
Longitude:		73-09-00		73-09-00		73-09-00		73-09-00		73-08-59		73-08-59		73-08-59	
Sample ID #:		Q7446		Q7447		Q7448		Q7449		Q7450		Q7810		Q7811	
Depth of Sample:		20-22'		2-4'		12-14'		20-22'		8-10'		10-12'		14-16'	
Sample Date:		10/15/92		10/15/92		10/15/92		10/15/92		10/16/92		10/19/92		10/19/92	
Percent Solids Results:		79%		81%		77%		85%		81%		85%		85%	
Analyte	CRDL Detection Limit														
Aluminum	40	4650		7080		4670		3920		3240		4150		4080	
Antimony	12	2.5	UJ	2.5	UJ	2.6	UJ	2.4	UJ	2.5	UJ	2.3	UJ	2.5	UJ
Arsenic	2	1.3		4.8		3.3		1.7		1.2	J	1.3		1	J
Barium	40	26.1		115		306		28		26		32.5		30.3	
Beryllium	1	0.44	J	0.74		0.44	J	0.41	J	0.32	J	0.34	J	0.31	J
Cadmium	1	0.25	U	0.33	J	1.3		0.24	U	0.25	U	0.23	U	0.24	U
Calcium	1000	1180		6720		25800		12000		1010		1980		10800	
Chromium	2	5.4		10.6		14.9		4.4		5		5.5		3.7	
Cobalt	10	4.2	J	8.1		4.8	J	4.4	J	3.6	J	10		3.7	J
Copper	5	7	J	19.8	J	14.4	J	6.7	J	5.3		6.3	J	5.1	J
Iron	20	8910		23900		13200		9290		7320		8600		7950	J
Lead	1	176	J	95.8	J	2980	J	5.1	J	3.9	J	12	J	5.5	J
Magnesium	1000	1550		3120		6550		6540		1450		2040		6010	
Manganese	3	140	J	354	J	296	J	217	J	157	J	211	J	159	J
Mercury	0.04	0.13	U	0.18	J	0.33	J	0.12	U	0.12	U	0.12	U	0.12	U
Nickel	8	15.2		12.4		9.1		6.5		4.5	J	5.9		4.7	J
Potassium	1000	997	J	535	UJ	520	UJ	628	J	788	J	868	J	740	J
Selenium	1	0.38	UJ	1.9	UJ	0.39	UJ	0.35	UJ	0.37	UJ	0.35	UJ	0.35	UJ
Silver	2	0.25	UJ	0.37	UJ	0.63	UJ	0.52	UJ	0.25	UJ	0.23	UJ	0.54	UJ
Sodium	1000	138	J	165	J	172	J	106	J	115	J	134	J	127	J
Thallium	2	0.13	U	0.15	J	0.13	U	0.12	U	0.12	U	0.12	U	0.12	UJ
Vanadium	10	8.7		17.4		11.3		7.5		6.6		7.5		6.6	
Zinc	4	44.4		159		363		20		17.5		18.4	J	15.2	J
Cyanide	2	0.32	U	0.31	U	0.32	U	0.29	U	0.31	U	0.29	U	0.3	U

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
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Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SBW-10 BLDUP#2		W-01-S1		W-01S1		W-01B		W-01-SI-05		W-01-SI-05		WTP12-05	
Latitude:		42-52-45		42-52-46		42-52-44		42-52-44		42-52-46		42-52-46		42-52-40	
Longitude:		73-08-59		73-08-55		73-08-58		73-08-58		73-08-58		73-08-58		73-09-01	
Sample ID #:		Q7812		Q6876		Q6877		R3868		T7168		T7560		T8145	
Depth of Sample:		14-16'		6-8'		10-12'		32-34'		4-6'		210-212'		22'6"-24'6"	
Sample Date:		10/19/92		10/7/92		10/7/92		1/27/93		5/18/94		5/25/94		6/07/94	
Percent Solids Results:		84%		87%		90%		89%		80.8%		79.4%		80.8%	
Analyte	CRDL Detection Limit														
Aluminum	40	3150		4320		6240		5980		3530		2980		3160	
Antimony	12	2.4	UJ	2.6	UJ	4.8	UJ	6.7	UJ	0.25	UJ	0.25	U	0.25	UJ
Arsenic	2	1	J	1.2		0.88	J	2.6		1.2	J	1.4	J	1	J
Barium	40	36.6		32.9		37.1		29.5		22.9	J	281		23.2	J
Beryllium	1	1.3	J	0.42	J	0.4	J	0.4	J	0.26	J	2.3		0.22	J
Cadmium	1	0.24	U	0.23	U	0.22	U	0.22	U	0.25	U	0.25	U	0.25	U
Calcium	1000	7570		716		10300		13200		1070	J	452	J	780	J
Chromium	2	3.7		4.1		4.5		4.4	J	4.2		1.8	J	5	
Cobalt	10	4.9	J	4.8	J	3.5	J	4.3	J	2.9	J	22.1		2.5	J
Copper	5	10.4	J	6.6		5.8		6.1	J	4.4	J	40.2		5.1	
Iron	20	19200	J	9680		8740		8710		6810		69800		6260	
Lead	1	3.9	J	4.2		6.4		7.7	J	3.3		19.4		202	
Magnesium	1000	4430		1220	J	5670	J	6690		1030	J	508	J	1160	J
Manganese	3	268	J	235		158		211	J	132	J	2140		77.5	J
Mercury	0.04	0.12	U	0.11	U	0.11	U	0.15	J	0.12	U	0.13	U	0.12	U
ickel	8	6.2		6		5		5.8	J	4.4	J	88.7		11.6	
Potassium	1000	466	UJ	651	J	831	J	538	J	751	J	321	J	832	J
Selenium	1	0.36	UJ	0.34	U	0.33	U	0.34	U	0.25	UJ	0.25	U	0.12	U
Silver	2	0.64	UJ	0.23	UJ	0.36	J	0.22	U	0.25	U	0.25	U	0.25	U
Sodium	1000	144	J	130	J	140	J	137	J	235	J	178	J	181	J
Thallium	2	0.12	UJ	0.13	J	0.3	J	0.19	J	0.25	UJ	1.2	J	0.12	U
Vanadium	10	6.5		6.9		8.2		7.7	J	6.1	J	16.1		5.9	J
Zinc	4	28.7	J	18.8		16		16.8	J	20.2	J	175	J	43.2	J
Cyanide	2	0.3	U	NA		NA		NA		NA		NA		NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
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Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		WTP12-05	WTP12-05 BLDUP SB3-05	W-22T-05	W-04T-05	W-04T-05 BLDUP-05	EQ BL-1-05	FEQBLK*#1
Latitude:		42-52-40	42-52-40	42-52-41	42-52-38	42-52-38	NA	NA
Longitude:		73-09-01	73-09-01	73-08-59	73-09-01	73-09-01	NA	NA
Sample ID #:		T8147	T8148	T4374	T4375MS/D	T4376	T4373	Q6953
Depth of Sample:		24'6"-26'6"	24'6"-26'6"	17-19'	19-21'	19-21'	NA	NA
Sample Date:		6/07/94	6/07/94	3/23/94	3/24/94	3/24/94	3/30/94	10/9/92
Percent Solids Results:		80.3%	78.3%	86.0%	88.6%	90.5%	NA	NA
Analyte	CRDL Detection Limit							
Aluminum	40	3200	3220	NA	NA	NA	NA	36.8 J
Antimony	12	0.25 UJ	0.4 J	NA	NA	NA	NA	20 U
Arsenic	2	2.3 J	1.9 J	NA	NA	NA	NA	2 U
Barium	40	27.8 J	26.6 J	NA	NA	NA	NA	1.3 U
Beryllium	1	0.24 J	0.22 J	NA	NA	NA	NA	0.1 U
Cadmium	1	0.25 U	0.26 U	NA	NA	NA	NA	2 U
Calcium	1000	764 J	879 J	NA	NA	NA	NA	167 J
Chromium	2	5.1	4.7	NA	NA	NA	NA	4 U
Cobalt	10	2.9 J	2.6 J	NA	NA	NA	NA	4 U
Copper	5	7.7 J	5.6 J	NA	NA	NA	NA	2 U
Iron	20	6630	6200	NA	NA	NA	NA	287
Lead	1	63.4	66	NA	NA	NA	NA	2.3 UJ
Magnesium	1000	1290	1200 J	NA	NA	NA	NA	38.2 J
Manganese	3	98.5	96.2	NA	NA	NA	NA	2.5 J
Mercury	0.04	0.12 U	0.13 U	NA	NA	NA	NA	0.2 U
Nickel	8	8.3 J	7.8 J	NA	NA	NA	NA	6 U
Potassium	1000	919 J	885 J	NA	NA	NA	NA	995 J
Selenium	1	0.12 U	0.13 U	NA	NA	NA	NA	3 UJ
Silver	2	0.25 U	0.26 U	NA	NA	NA	NA	5.4 J
Sodium	1000	245 J	252 J	NA	NA	NA	NA	55.5 J
Thallium	2	0.17 J	0.17 J	NA	NA	NA	NA	1 U
Vanadium	10	5.9 J	6 J	NA	NA	NA	NA	5.6 J
Zinc	4	220 J	55.5 J	NA	NA	NA	NA	3.1 J
Cyanide	2	NA	NA	NA	NA	NA	NA	5 U

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
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NA – Not Applicable.
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Table 8

Soil Boring Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		FEQBLK*#2		FEQBLK*#3		FEQBLK*	
Latitude:		NA		NA		NA	
Longitude:		NA		NA		NA	
Sample ID #:		Q7202		Q7813		R4115	
Depth of Sample:		NA		NA		NA	
Sample Date:		10/14/92		10/19/92		1/29/93	
Percent Solids Results:		NA		NA		NA	
Analyte	CRDL Detection Limit						
Aluminum	40	55	J	13	UJ	22.8	J
Antimony	12	20	UJ	20	U	19.8	J
Arsenic	2	2	U	2	U	2	U
Barium	40	2.5	U	1	UJ	3	U
Beryllium	1	0.1	U	0.1	U	0.1	U
Cadmium	1	2	U	2	U	2	U
Calcium	1000	64.4	J	119	J	36.3	J
Chromium	2	8.7	J	4	U	2	U
Cobalt	10	4	U	4	U	5	U
Copper	5	3.2	J	2	U	3	U
Iron	20	2290		160		5	U
Lead	1	451		1.4	J	1	U
Magnesium	1000	46.9	J	44.3	UJ	39	U
Manganese	3	53		17	J	1.4	J
Mercury	0.04	0.2	U	100	U	0.2	U
ickel	8	6	U	6	U	8	U
Potassium	1000	1270	J	450	UJ	750	J
Selenium	1	3	UJ	3	U	3	U
Silver	2	5	J	2	UJ	3.1	J
Sodium	1000	106	J	58.9	J	29.8	J
Thallium	2	1	U	1	U	1	U
Vanadium	10	6.2	J	4	U	5	U
Zinc	4	4.4	J	3.6	J	4.9	J
Cyanide	2	5	U	5	U	NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.

Table 8A

Soil Boring Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	W-22T-05	W-04T-05	W-04T-05 BLDUP-05	EQ BL-1-05
Latitude:	42-52-40	42-52-41	42-52-41	NA
Longitude:	73-09-01	73-08-59	73-08-59	NA
Sample ID #:	T4374	T4375MS/D	T4376	T4373
Depth of Sample:	17-19'	19-21'	119-21'	N/A
Sample Date:	3/30/94	3/24/94	3/24/94	3/30/94
Percent Solids Results:	86.0%	88.6%	90.5%	NA
Detection Limit				
TOC	663	526	343	2.2

NOTES: Values reported in mg/kg dry weight (ppm) unless noted otherwise.
NA - Not Applicable.

Table 9

Bend in the Road Test Pits Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		BRP-1	BRP-2	BRP-3	BRP-4	BRP-4 BLDUP	BRP-5	BRP-6	BRP-7
Latitude:		42-52-47	42-52-47	42-52-47	42-52-47	42-52-47	42-52-47	42-52-47	42-52-47
Longitude:		73-09-10	73-09-10	73-09-09	73-09-09	73-09-09	73-09-09	73-09-09	73-09-08
Lab Sample ID #:		Q6471	Q6472	Q6473	Q6474	Q6475	Q6476	Q6477	Q6478
Sample Date:		10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92	10/1/92
Percent Solids Results:		97%	95%	97%	98%	98%	96%	97%	94%
Analyte	CRDL Detection Limit								
Aluminum	40	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	12	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	2	NA	NA	NA	NA	NA	NA	NA	NA
Barium	40	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	1	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	1000	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	2	3.4	3.8	3.6	3.0	3.4	4.0	4.5	4.1
Cobalt	10	NA	NA	NA	NA	NA	NA	NA	NA
Copper	5	NA	NA	NA	NA	NA	NA	NA	NA
Iron	20	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	39.2 J	4.8 J	4.9 J	3.2 J	3.5 J	10.2 J	5.2 J	6.8 J
Magnesium	1000	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	3	130 J	145 J	239 J	122 J	150 J	133 J	146 J	165 J
Mercury	0.04	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U
Nickel	8	5.5	4.0 J	4.7	5.5	5.9	5.1	4.2	6.0
Potassium	1000	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	1000	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	10	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	4	15.8	18.5	18.2	14.5	14.8	27.4	24.0	20.1
Cyanide	2	NA	NA	NA	NA	NA	NA	NA	NA

NOTES: Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
UJ - Non-detected reuslts are approximated.

Table 9

Bend in the Road Test Pits Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		BRP-8		BRP-9		BRP-10		FEQBLK	
Latitude:		42-52-46		42-52-46		42-52-46		NA	
Longitude:		73-09-08		73-09-07		73-09-08		NA	
Lab Sample ID #:		Q6479		Q6480		Q6481		Q6512	
Sample Date:		10/1/92		10/1/92		10/1/92		10/1/92	
Percent Solids Results:		92%		94%		89%		NA	
Analyte	CRDL Detection Limit								
Aluminum	40	NA		NA		NA		NA	
Antimony	12	NA		NA		NA		NA	
Arsenic	2	NA		NA		NA		NA	
Barium	40	NA		NA		NA		NA	
Beryllium	1	NA		NA		NA		NA	
Cadmium	1	NA		NA		NA		NA	
Calcium	1000	NA		NA		NA		NA	
Chromium	2	5.7		4.2		5.6		53.7	
Cobalt	10	NA		NA		NA		NA	
Copper	5	NA		NA		NA		NA	
Iron	20	NA		NA		NA		NA	
Lead	1	14.0	J	4.8	J	7.9	J	18.0	
Magnesium	1000	NA		NA		NA		NA	
Manganese	3	308	J	97.1	J	353	J	360	
Mercury	0.04	0.11	U	0.11	U	0.11	U	0.20	U
Nickel	8	6.3		5.5		8.7		31.7	J
Potassium	1000	NA		NA		NA		NA	
Selenium	1	NA		NA		NA		NA	
Silver	2	NA		NA		NA		NA	
Sodium	1000	NA		NA		NA		NA	
Thallium	2	NA		NA		NA		NA	
Vanadium	10	NA		NA		NA		NA	
Zinc	4	32.0		17.8		38.8		75.3	
Cyanide	2	NA		NA		NA		NA	

NOTES: Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected reuslts are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01S1-01	W-01S1-02	W-01S1-03	W-01S1-04	SBW-10-01	SBW-10-01 BLDUP	SBW-10-02
Latitude:		42-52-44	42-52-44	42-52-44	42-52-44	42-52-45	42-52-45	42-52-45
Longitude:		73-08-58	73-08-58	73-08-58	73-08-58	73-09-59	73-09-59	73-09-59
Sample ID #:		S1913	S3254	0001-SA	0003-SA	S1912	S1914	S3255
Sample Date:		5/25/93	6/22/93	11/22/93	2/24/94	5/25/93	5/25/93	6/22/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	4.5 J	3.1 J	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	10 U	10 U	R	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
s-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		SBW-10-03	SBW-21-01	SBW-21-02	SBW-21-03	SBW-21-04	W-23T-01	W-23T-02
Latitude:		42-52-45	42-52-42	42-52-42	42-52-42	42-52-42	42-52-38	42-52-38
Longitude:		73-09-59	73-09-00	73-09-00	73-09-00	73-09-00	73-09-57	73-09-57
Sample ID #:		0002-SA	S2001	S3341	0004-SA	0001-SA	S1863	S3252
Sample Date:		11/30/ 3	5/25/93	6/23/93	11/22/93	2/23/94	5/24/93	6/22/93
Compound	Detection Limit							
Chloromethane	10	10 U	1000 U	1000 U	140 J	330 U	10 U	10 U
Bromomethane	10	10 U	1000 U	1000 U	50 U	330 U	10 U	10 U
Vinyl Chloride	10	10 U	1000 U	1000 U	300	280 J	10 U	10 U
Chloroethane	10	10 U	1000 U	1000 U	50 U	330 U	10 U	10 U
Methylene Chloride	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Acetone	10	10 U	1000 U	1000 U	50 UJ	330 U	10 U	10 U
Carbon Disulfide	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
1,1-Dichloroethene	5	5 U	500 U	500 U	61	170 U	5 U	5 U
1,1-Dichloroethane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	8700	7500	4000	3600	5 U	5 U
Chloroform	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
1,2-Dichloroethane	5	5 U	500 U	500 U	25	170 U	5 U	5 U
2-Butanone	10	10 U	R	R	50 U	330 U	R	R
1,1,1-Trichloroethane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Carbon Tetrachloride	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Bromodichloromethane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
1,2-Dichloropropane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
richloroethene	5	5 U	9000	14000	8400	5700	5 U	5 U
Dibromochloromethane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Benzene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Bromoform	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	1000 U	1000 U	50 U	330 U	10 U	10 U
2-Hexanone	10	10 U	1000 U	1000 U	50 U	330 U	10 U	10 U
Tetrachloroethene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Toluene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Chlorobenzene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Ethylbenzene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Styrene	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Xylene (total)	5	5 U	500 U	500 U	25 U	170 U	5 U	5 U
Vinyl Acetate	10	10 U	1000 U	1000 U	50 U	330 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-23T-03	W-24T-01	W-24T-02	W-24T-03	W-24T-03 BLDUP-3-3	W-07S1-01	W-07S1-02
Latitude:		42-52-38	42-52-35	42-52-35	42-52-35	42-52-35	42-52-44	42-52-44
Longitude:		73-09-57	73-09-00	73-09-00	73-09-00	73-09-00	73-09-02	73-09-02
Sample ID #:		0008-SA	S1864	S3253	0009-SA	0010-SA	S2129	S3448
Sample Date:		11/23/93	5/24/93	6/22/93	11/23/93	11/23/93	5/28/93	6/24/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	12 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	R	R	10 U	10 U	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	12
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
s-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
richloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	20
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	7
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	12	5.2	5.1 U	23	55
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	11	16
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5	5	5 U	120	230
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	66 J	102 J

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-27S1-05	W-08S1-01	W-08S1-02	W-08S1-03	W-08S1-04	W-09S1-01	W-09S1-02
Latitude:		42-52-42	42-52-40	42-52-40	42-52-40	42-52-40	42-52-37	42-52-37
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-03	73-09-03
Sample ID #:		T9397	S1915	S3340	0003-SA	0001-SA	S1916	S3256
Sample Date:		7/6/94	5/25/93	6/22/93	11/23/93	2/28/94	5/25/93	6/22/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
Bromomethane	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
Chloroethane	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Acetone	10	10 U	10 U	20 U	19 U	15 U	34	10 U
Carbon Disulfide	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	6	14	14	15 U	11	9
Chloroform	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
2-Butanone	10	10 U	R	R	25 U	25 U	R	R
1,1,1-Trichloroethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
richloroethene	5	5 U	150	260	360	390	9	5
Dibromochloromethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Benzene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Bromoform	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
2-Hexanone	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
Tetrachloroethene	5	5 U	49	73	160	200	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Toluene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Styrene	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Xylene (total)	5	5 U	5 U	10 U	12 U	12 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	20 U	25 U	25 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-09S1-03	W-09S1-04	W-25S1-01	W-25S1-02	W-25S1-03	W-25S1-04	W-02-01
Latitude:		42-52-37	42-52-40	42-52-38	42-52-38	42-52-38	42-52-39	42-52-39
Longitude:		73-09-03	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-01
Sample ID #:		0005-SA	0002-SA	S1917	S3257	0004-SA	0003-SA	S2058
Sample Date:		11/23/93	2/24/94	5/25/93	6/22/93	11/23/93	2/23/94	5/27/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	2000 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	2000 U
Vinyl Chloride	10	1.3 J	2.9 J	10 U	10 U	10 U	10 U	2000 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	2000 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Acetone	10	20 U	9.1 J	21	48 U	88	87	2000 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
1,2-Dichloroethene (total)	5	22	30	5 U	5 U	5 U	5 U	16000
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
2-Butanone	10	10 U	10 U	R	R	6.9 J	29	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Trichloroethene	5	7.1	2 J	12	6	1.2 J	5 U	4600
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	2000 U
2-Hexanone	10	10 U	10 U	10 U	10 U	5 U	10 U	2000 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	7100
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	10 U	5 U	1000 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	1000 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	2000 U
Total TICs		NA	NA	NA	24 J	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-02-01 BLDUP	W-02-02	W-02-03	W-02-03 BLDUP-4-3	W-03-01	W-03-02	W-03-03
Latitude:		42-52-39	42-52-39	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00	73-09-00
Sample ID #:		S2059	S3450	0002-SA	0011-SA	S2056	S3444	0005-SA
Sample Date:		5/27/93	6/24/93	11/29/93	11/29/93	5/26/93	6/24/93	11/29/93
Compound	Detection Limit							
Chloromethane	10	NA	1000 U	1000 U	1000 U	2000 U	1000 U	1000 U
Bromomethane	10	NA	1000 U	1000 U	1000 U	2000 U	1000 U	1000 U
Vinyl Chloride	10	NA	1000 U	630 J	570 J	2000 U	1000 U	1000 U
Chloroethane	10	NA	1000 U	1000 U	1000 U	2000 U	1000 U	1000 U
Methylene Chloride	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Acetone	10	NA	1000 U	1000 U	1000 U	2000 U	1000 U	1000 U
Carbon Disulfide	5	NA	500 U	500 U	500 U	1000 U	510	500 U
1,1-Dichloroethene	5	NA	500 U	620 J	500 UJ	1000 U	500 U	500 U
1,1-Dichloroethane	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
1,2-Dichloroethene (total)	5	NA	11000	14000	13000	22000	16000	11000
Chloroform	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
1,2-Dichloroethane	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
2-Butanone	10	NA	R	1000 U	1000 U	R	1000	1000 U
1,1,1-Trichloroethane	5	NA	500 U	500 UJ	500 UJ	1000 U	500 U	500 UJ
Carbon Tetrachloride	5	NA	500 U	500 UJ	500 UJ	1000 U	500 U	500 UJ
Bromodichloromethane	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
1,2-Dichloropropane	5	NA	500 U	500 U	500 UJ	1000 U	500 U	500 U
is-1,3-Dichloropropene	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
richloroethene	5	NA	1800	1500 J	1900 J	9800	8000	1300 J
Dibromochloromethane	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
1,1,2-Trichloroethane	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Benzene	5	NA	500 U	550 J	500 UJ	1000 U	500 U	500 U
trans-1,3-Dichloropropene	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Bromoform	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
4-Methyl-2-pentanone	10	NA	1000 U	1000 U	1000 U	2000 U	1000 U	1000 U
2-Hexanone	10	NA	100 U	1000 U	1000 U	2000 U	1000 U	1000 U
Tetrachloroethene	5	NA	1400	400 J	860 J	10000	5800	350 J
1,1,2,2-Tetrachloroethane	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Toluene	5	NA	500 U	610 J	500 UJ	1000 U	500 U	500 U
Chlorobenzene	5	NA	500 U	580 J	500 UJ	1000 U	500 U	500 U
Ethylbenzene	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Styrene	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Xylene (total)	5	NA	500 U	500 U	500 U	1000 U	500 U	500 U
Vinyl Acetate	10	NA	1000 U	1000 U	1000 U	2000 U	1000 U	1000 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-03T-01	W-03T-02	W-03T-03	W-04S-01	W-04S-02	W-04S-03	W-04D-01
Latitude:		42-52-39	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-00	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		S2060	S3446	0006-SA	S2057	S3342	0003-SA	S2064
Sample Date:		5/27/93	6/24/93	11/29/93	5/26/93	6/23/93	11/29/93	5/26/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
Bromomethane	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
Vinyl Chloride	10	10 U	10 U	10 U	620	1000	1500	620
Chloroethane	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
Methylene Chloride	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Acetone	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
Carbon Disulfide	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
1,1-Dichloroethene	5	5 U	5 U	5 U	250 U	250 U	120 J	250 U
1,1-Dichloroethane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
1,2-Dichloroethene (total)	5	76	56	5 U	2000	3900	3800	250 U
Chloroform	5	5 U	5 U	5 U	250	250 U	160 U	250 U
1,2-Dichloroethane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
2-Butanone	10	R	R	10 U	R	R	330 U	R
1,1,1-Trichloroethane	5	5 U	5 U	5 UJ	250 U	250 U	160 UJ	250 U
Carbon Tetrachloride	5	5 U	5 U	5 UJ	250 U	250 U	160 UJ	250 U
Bromodichloromethane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
1,2-Dichloropropane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
is-1,3-Dichloropropene	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
richloroethene	5	80	47	1.4 J	730	670	2000 J	3500
Dibromochloromethane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Benzene	5	5 U	5 U	5 U	250 U	250 U	110 J	250 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Bromoform	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
2-Hexanone	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
Tetrachloroethene	5	150	81	5 U	250 U	250 U	640 J	1000
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Toluene	5	5 U	5 U	5 U	250 U	250 U	110 J	250 U
Chlorobenzene	5	5 U	5 U	5 U	250 U	250 U	120 J	250 U
Ethylbenzene	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Styrene	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Xylene (total)	5	5 U	5 U	5 U	250 U	250 U	160 U	250 U
Vinyl Acetate	10	10 U	10 U	10 U	500 U	500 U	330 U	500 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04D-02	W-04D-03	W-05-01	W-05-02	W-05-03	W-06S-01	W-06S-02
Latitude:		42-52-38	42-52-38	42-52-39	42-52-39	42-52-39	42-52-38	42-52-38
Longitude:		73-09-01	73-09-01	73-09-00	73-09-00	73-09-00	73-09-01	73-09-01
Sample ID #:		S3343	0006-SA	S2061	S3443	0004-SA	S2062	S3445
Sample Date:		6/23/93	11/23/93	5/27/93	6/24/93	11/29/93	5/27/93	6/23/93
Compound	Detection Limit							
Chloromethane	10	500 U	200 U	100 U	250 U	100 U	10 U	10 U
Bromomethane	10	500 U	200 U	100 U	250 U	100 U	10 U	10 U
Vinyl Chloride	10	620	200 U	100 U	250 U	100 U	10 U	10 U
Chloroethane	10	500 U	100 U	100 U	250 U	100 U	10 U	10 U
Methylene Chloride	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Acetone	10	500 U	200 U	100 U	250 U	100 U	10 U	10 U
Carbon Disulfide	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
1,1-Dichloroethene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
1,1-Dichloroethane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
1,2-Dichloroethene (total)	5	250 U	150	140	1100	310	5 U	5 U
Chloroform	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
1,2-Dichloroethane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
2-Butanone	10	R	200 U	R	R	100 U	R	R
1,1,1-Trichloroethane	5	250 U	100 U	50 U	125 U	50 UJ	5 U	5 U
Carbon Tetrachloride	5	250 U	100 U	50 U	125 U	50 UJ	5 U	5 U
Bromodichloromethane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
1,2-Dichloropropane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
is-1,3-Dichloropropene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
richloroethene	5	1900	100 U	270	1900	870 J	5 U	5
Dibromochloromethane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
1,1,2-Trichloroethane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Benzene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
trans-1,3-Dichloropropene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Bromoform	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
4-Methyl-2-pentanone	10	500 U	200 U	100 U	250 U	100 U	10 U	10 U
2-Hexanone	10	500 U	200 U	100 U	250 U	100 U	10 U	10 U
Tetrachloroethene	5	560	100 U	100	980	130 J	5 U	5 U
1,1,2,2-Tetrachloroethane	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Toluene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Chlorobenzene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Ethylbenzene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Styrene	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Xylene (total)	5	250 U	100 U	50 U	125 U	50 U	5 U	5 U
Vinyl Acetate	10	500 U	200 U	100 U	250 U	100 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-06S-03	W-06D-01	W-06D-02	W-06D-02 BLDUP	W-06D-03	W-07S1-03	W-07S1-04
Latitude:		42-52-38	42-52-38	42-52-38	42-52-40	42-52-38	42-52-44	42-52-44
Longitude:		73-09-01	73-09-01	73-09-01	73-09-00	73-09-01	73-09-02	73-09-02
Sample ID #:		0007-SA	S2065	S3453	S3447	0008-SA	0003-SA	0001-SA
Sample Date:		11/2' '93	5/27/93	6/23/93	6/23/93	11/29/93	11/30/93	2/24/94
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	6.8 J
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	R	R	R	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	1.4 J	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	1.1 J	4.8 J
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	20
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-11S1-01	W-11S1-02	W-11S1-03	W-11S1-04	W-12S1-01	W-12S1-02	W-12S1-03
Latitude:		42-52-40	42-52-40	42-52-40	42-52-40	42-52-42	42-52-42	42-52-42
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-08-58	73-08-58	73-08-58
Sample ID #:		S2002	S3449	0006-SA	0005-SA	S2004	S3454	0009-SA
Sample Date:		5/26/93	6/24/93	11/30/9	2/24/94	5/26/93	6/24/93	11/29/93
Compound	Detection Limit							
Chloromethane	10	500 U	500 U	700 U	200 UJ	10 U	10 U	10 U
Bromomethane	10	500 U	500 U	700 U	200 UJ	10 U	10 U	10 U
Vinyl Chloride	10	1600	2300	700 U	580 J	10 U	10 U	10 U
Chloroethane	10	500 U	500 U	700 U	200 UJ	10 U	10 U	10 U
Methylene Chloride	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Acetone	10	500 U	500 U	700 U	200 UJ	17 U	10 U	10 U
Carbon Disulfide	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
1,1-Dichloroethene	5	250 U	250 U	90 J	100 UJ	5 U	5 U	5 U
1,1-Dichloroethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	3300	6900	7600	2000 J	5 U	5 U	5 U
Chloroform	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
1,2-Dichloroethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
2-Butanone	10	R	R	700 U	200 UJ	R	R	10 U
1,1,1-Trichloroethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 UJ
Carbon Tetrachloride	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 UJ
Bromodichloromethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
1,2-Dichloropropane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
is-1,3-Dichloropropene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
richloroethene	5	250 U	810	350 U	320 J	9	5 U	5 U
Dibromochloromethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
1,1,2-Trichloroethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Benzene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Bromoform	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
4-Methyl-2-pentanone	10	500 U	500 U	700 U	200 UJ	10 U	10 U	10 U
2-Hexanone	10	500 U	500 U	700 U	48 J	10 U	10 U	10 U
Tetrachloroethene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Toluene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Chlorobenzene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Ethylbenzene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Styrene	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Xylene (total)	5	250 U	250 U	350 U	100 UJ	5 U	5 U	5 U
Vinyl Acetate	10	500 U	500 U	700 U	200 UJ	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses - Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-12S1-04	W-22S1-01	W-22S1-02	W-22S1-02 BLDUP	W-22S1-03	W-22S1-04	W-01-04
Latitude:		42-52-42	42-52-41	42-52-41	42-52-41	42-52-41	42-52-41	42-52-46
Longitude:		73-08-58	73-08-59	73-08-59	73-08-59	73-08-59	73-08-59	73-08-55
Sample ID #:		0008-SA	S2083	S3455	S3452	0010-SA	0006-SA	0004-SA
Sample Date:		2/25/94	5/26/93	6/24/93	6/24/93	11/29/93	2/24/94	2/24/94
Compound	Detection Limit							
Chloromethane	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Bromomethane	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Vinyl Chloride	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Chloroethane	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Methylene Chloride	5	5 U	1000 U	1250 U	1250 U	250 U	780 UJ	5 UJ
Acetone	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Carbon Disulfide	5	5 U	1000 U	1250 UJ	1600 J	250 U	500 UJ	5 UJ
1,1-Dichloroethene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
1,1-Dichloroethane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
1,2-Dichloroethene (total)	5	3.3 J	3300	4400 J	1900 J	1500	1600 J	5 UJ
Chloroform	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
1,2-Dichloroethane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
2-Butanone	10	10 U	R	R	R	250 U	1000 UJ	10 UJ
1,1,1-Trichloroethane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Carbon Tetrachloride	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Bromodichloromethane	5	5 U	1000 U	1250 U	1250 U	250 UJ	500 UJ	5 UJ
1,2-Dichloropropane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
s-1,3-Dichloropropene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
richloroethene	5	11	34000	40000 J	14000 J	9000	13000 J	5 UJ
Dibromochloromethane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
1,1,2-Trichloroethane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Benzene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
trans-1,3-Dichloropropene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Bromoform	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
4-Methyl-2-pentanone	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
2-Hexanone	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Tetrachloroethene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
1,1,2,2-Tetrachloroethane	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Toluene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Chlorobenzene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Ethylbenzene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Styrene	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Xylene (total)	5	5 U	1000 U	1250 U	1250 U	250 U	500 UJ	5 UJ
Vinyl Acetate	10	10 U	2000 U	2500 U	2500 U	500 U	1000 UJ	10 UJ
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 10A

Ground Water Volatile Organics Analyses – Method 8240
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01-05	W-04T-05	W-22T-05	W-26T-05	W-27T-05	W-TP-12-05
Latitude:		42-52-48	42-52-38	42-52-41	42-52-39	42-52-42	42-52-40
Longitude:		73-08-55	73-09-01	73-08-59	73-09-05	73-09-02	73-09-01
Sample ID #:		T9319	T9404	T9398	T9399	T9396	T9401
Sample Date:		7/5/94	7/6/94	7/7/94	7/7/94	7/6/94	7/6/94
Compound	Detection Limit						
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	20	10 U	10 U	10 U	45
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	35	150	5 U	5 U	22
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	10
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	320	310 J	5 U	5 U	3000
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	9	21	5 U	5 U	10
2-Butanone	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	17
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	1200	6400	5 U	5 U	27000
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	5000 U
Tetrachloroethene	5	5 U	41	5 U	5 U	5 U	21000
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	2500 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	140
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	18
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs							

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01B-01	W-01B-02	W-01B-03	W-01B-04	W-04SI-01	W-04SI-01 BLDUP	W-04SI-02	W-04SI-03
Latitude:		42-52-44	42-52-44	42-52-44	42-52-44	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-08-58	73-08-58	73-08-58	73-08-58	73-09-00	73-09-00	73-09-00	73-09-01
Sample ID #:		S2391	S3625	0004-SA	0002-SA	S2327	S2328	S3624	0010-SA
Sample Date:		6/3/93	6/28/93	12/02/93	3/3/94	6/2/93	6/2/93	6/28/93	11/30/93
Compound	Detection Limit								
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	3.3 J	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	10 U	10 U	R	R	R	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04SI-04	W-04DI-01	W-04DI-02	W-04DI-03	W-04DI-04	W-04B-01	W-04B-02
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-01	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		0001-SA	S2493	S3714	0001-SA	0003-SA	S2494	S3713
Sample Date:		3/2/94	6/4/93	6/29/93	12/01/93	3/2/94	6/4/93	6/29/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	5.1 J	10 U	10 U	10 U
Carbon Disulfide	5	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	R	R	5 U	10 U	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04B-03	W-04B-04	W-04B-04 BLDUP-1-4	W-07SI-01	W-07SI-02	W-07SI-03	W-07SI-04
Latitude:		42-52-38	42-52-38	42-52-38	42-52-44	42-52-44	42-52-44	42-52-44
Longitude:		73-09-00	73-09-00	73-09-00	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0006-SA	0004-SA	0006-SA	S2392	S3794	0008-SA	0003-SA
Sample Date:		12/01/93	3/2/94	3/2/94	6/3/93	6/30/93	11/30/93	3/3/94
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	10 U	10 U	R	R	5 U	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
richloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-07DI-03	W-08SI-01	W-08SI-02	W-08SI-03	W-08SI-04	W-08B-01	W-08B-02
Latitude:		42-52-45	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0009-SA	S2244	S3795	0005-SA	0001-SA	S2495	S3916
Sample Date:		11/30/93	6/1/93	6/30/93	12/01/93	2/28/94	6/3/93	7/1/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	43 U	21	10 U	17	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5.4	2.5 J	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	1 J	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	R	R	10 U	10 U	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	1.1 J	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	1 J	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	3.8 J	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	4.8 J	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08B-03	W-09SI-01	W-09SI-02	W-09SI-03	W-09SI-04	W-09B-01	W-09B-02	W-09B-03
Latitude:		42-52-40	42-52-37	42-52-37	42-52-37	42-52-37	42-52-37	42-52-37	42-52-37
Longitude:		73-09-02	73-09-03	73-09-03	73-09-03	73-09-03	73-09-03	73-09-03	73-09-03
Sample ID #:		0002-SA	D2395	D3712	0002-SA	0003-SA	S2393	S3918	0004-SA
Sample Date:		12/02/93	6/2/93	6/29/93	12/01/93	2/28/94	6/2/93	7/1/93	12/01/93
Compound	Detection Limit								
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	2.3 J	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	1.1 J	5 U	5 U	1.2 J
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	R	R	10 U	10 U	R	R	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
richloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-09B-04	W-25SI-01	W-25SI-02	W-25SI-03	W-25SI-04	W-25SI-04 BLDUP-2-4	W-25DI-01
Latitude:		42-52-37	42-52-39	42-52-39	42-52-39	42-52-39	42-52-39	42-52-39
Longitude:		73-09-03	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0002-SA	S2331	S3715	0007-SA	0002-SA	0002-SA	S2330
Sample Date:		3/2/94	6/1/93	6/29/93	12/01/93	2/28/94	2/28/94	6/2/93
Compound	Detection Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5	2.7 J	2.9 J	2.8 J	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	R	R	10 U	10 U	10 U	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-25DI-02	W-25DI-03	W-25DI-04	W-01DI-05	W-01DI-05 BLDUP1-05	FEQBLK	FEQBLK
Latitude:		42-52-39	42-52-39	42-52-39	42-52-46	42-52-46	NA	NA
Longitude:		73-09-02	73-09-02	73-09-02	73-08-58	73-08-58	NA	NA
Sample ID #:		S3796	0003-SA	0005-SA	T9320	T9321	S1865	S2003
Sample Date:		6/30/93	12/02/93	3/2/94	7/5/94	7/5/94	5/24/93	5/26/93
Compound	Detection Limit						NA	NA
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	23
Carbon Disulfide	5	5 U	5 U	5 UJ	5 U	5 U	5 U	5
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	10 U	10 U	10 U	10 U	R	38 J
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA			NA	30 J

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		PUMP FEQBLK	FEQBLK	FEQBLK	FEQBLK	FEQBLK	EQBLK 3-1	EQBLK 3-3
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S2329	S3344	S3451	S3797	S3798	0001-SA	0001-SA
Sample Date:		6/2/93	6/23/93	6/24/93	6/30/93	6/30/93	11/18/93	11/23/93
	Detection	NA	NA	NA	NA	NA	NA	NA
Compound	Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	15	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	2.3 J
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	14	9	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	10 U	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	20 J	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		EQBLK 4-3	EQBLK 5-3	EQBLK 1-4	EQBLK 2-4	EQBLK 1-5	QC TR BK	QC TR BK
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		0001-SA	0007-SA	0007-EB	0001-SA	T9400	S1866	S1918
Sample Date:		11/23/93	11/30/93	2/25/94	3/3/94	7/7/94	5/24/93	5/25/93
	Detection	NA	NA	NA	NA	NA	NA	NA
Compound	Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	10 U	10 U	10 U	10 U	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
richloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA		NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S2005	S2066	S2130	S2245	S2332	S2397	S2496
Sample Date:		5/26/93	5/27/93	5/28/93	6/1/93	6/2/93	6/3/93	6/4/93
	Detection	NA	NA	NA	NA	NA	NA	NA
Compound	Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	11	14	13	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	8 J	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S3258	S3345	S3456	S3574	S3626	S3716	S3799
Sample Date:		6/22/93	6/23/93	6/24/93	6/28/93	6/28/93	6/29/93	6/30/93
	Detection	NA	NA	NA	NA	NA	NA	NA
Compound	Limit							
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	5 J	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK	QC TR BK2
Latitude:		NA	NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S3922	0002-TB	0002-TB	0001-TB	0005-TB	0003-TB	T9322	T9408
Sample Date:		7/1/93	11/22/93	11/23/93	11/29/93	11/30/93	12/01/93	7/6/94	7/7/94
	Detection	NA	NA	NA	NA	NA	NA	NA	NA
Compound	Limit								
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	1.5 J	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	4.8 J	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA	NA		

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10B

Ground Water Volatile Organics Analyses – Method 8240
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		TR BK	TR BK	TR BK	TR BK	TR BK
Latitude:		NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA
Sample ID #:		0009-TB	0007-TB	0005-TB	0007-TB	0004-TB
Sample Date:		2/25/94	2/24/94	2/28/94	3/2/94	3/3/94
	Detection	NA	NA	NA	NA	NA
Compound	Limit					
Chloromethane	10	10 U	10 UJ	10 U	10 U	10 U
Bromomethane	10	10 U	10 UJ	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 UJ	10 U	10 U	10 U
Chloroethane	10	10 U	10 UJ	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 UJ	5 U	5 U	5 U
Acetone	10	10 U	10 UJ	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 UJ	5 U	5 UJ	5 U
1,1-Dichloroethene	5	5 U	5 UJ	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 UJ	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 UJ	5 U	5 U	5 U
Chloroform	5	5 U	5 UJ	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 UJ	5 U	5 U	5 U
2-Butanone	10	10 U	10 UJ	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	5 UJ	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 UJ	5 U	5 U	5 U
Bromodichloromethane	5	5 U	5 UJ	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 UJ	5 U	5 U	5 U
ie-1,3-Dichloropropene	5	5 U	5 UJ	5 U	5 U	5 U
richloroethene	5	5 U	5 UJ	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 UJ	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 UJ	5 U	5 U	5 U
Benzene	5	5 U	5 UJ	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 UJ	5 U	5 U	5 U
Bromoform	5	5 U	5 UJ	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 UJ	10 U	10 U	10 U
2-Hexanone	10	10 U	10 UJ	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 UJ	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 UJ	5 U	5 U	5 U
Toluene	5	5 U	5 UJ	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 UJ	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 UJ	5 U	5 U	5 U
Styrene	5	5 U	5 UJ	5 U	5 U	5 U
Xylene (total)	5	5 U	5 UJ	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 UJ	10 U	10 U	10 U
Total TICs		NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 10C

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01S1-01	W-01S1-02	W-01S1-03	W-02-01	W-02-01 BLDUP	W-02-02	W-03-01
Latitude:		42-52-44	42-52-44	42-52-44	42-52-39	42-52-39	42-52-39	42-52-38
Longitude:		73-08-58	73-08-58	73-08-58	73-09-01	73-09-01	73-09-01	73-09-00
Sample ID #:		S1913	S3254	0001-SA	S2058	S2059	S3450	S2056
Sample Date:		5/25/93	6/22/93	11/22/93	5/27/93	5/27/93	6/24/93	5/26/93
	Detection Limit							
TOC (mg/l)	1	3 UJ	7 U	2.5	22 UJ	54 J	10 U	15 UJ

NOTES: NA - Not Applicable.

Table 10C

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-03-02	W-04S-01	W-04S-02	W-05-01	W-05-02	W-06S-01	W-06S-02
Latitude:		42-52-38	42-52-38	42-52-38	42-52-39	42-52-39	42-52-38	42-52-38
Longitude:		73-09-00	73-09-01	73-09-01	73-09-00	73-09-00	73-09-01	73-09-01
Sample ID #:		S3444	S2057	S3342	S2061	S3443	S2062	S3445
Sample Date:		6/24/93	5/26/93	6/23/93	5/27/93	6/24/93	5/27/93	6/23/93
	Detection Limit							
TOC (mg/l)	1	7 U	160 J	13 U	30 UJ	2 U	35 UJ	3 U

NOTES: NA - Not Applicable.

Table 10C

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-06D-02 BLDUP	W-01B-01	W-01B-02	W-04SI-01	W-04SI-02	W-04DI-01	W-04DI-02
Latitude:		42-52-40	42-52-44	42-52-44	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-00	73-08-58	73-08-58	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		S3447	S2391	S3625	S2327	S3624	S2493	S3714
Sample Date:		6/23/93	6/3/93	6/28/93	6/2/93	6/28/93	6/4/93	6/29/93
	Detection Limit							
TOC (mg/l)	1	3 U	3 UJ	4 U	3 UJ	4 U	3 UJ	6 U

NOTES: NA - Not Applicable.

Table 10C

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04B-01	W-04B-02	FEQBLK	PUMP FEQBLK	FEQBLK
Latitude:		42-52-38	42-52-38	NA	NA	NA
Longitude:		73-09-00	73-09-00	NA	NA	NA
Sample ID #:		S2494	S3713	S1865	S2329	S3344
Sample Date:		6/4/93	6/29/93	5/24/93	6/2/93	6/23/93
	Detection Limit					
TOC (mg/l)	1	3 UJ	4 U	7	5	3

NOTES: NA - Not Applicable.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		DICKINSON–01	DICKINSON–02	DICKINSON–3	DICKINSON–4	DICKINSON–4 BLDUP–3–4	OLIN–01
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]
Sample ID#:		S2491	S3920	9336309	0003–002	0003–004	S2490
Sample Date:		6/4/93	7/1/93	11/22/93	3/1/94	3/1/94	6/5/93
Compound	Detection Limit						
Dichlorodifluoromethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Bromomethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Chloroethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Trichloroflouromethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Carbon Disulfide	1	1 U	R	R	0.5 U	0.5 U	1 U
1,1 Dichloroethene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
trans–1,2–dichloroethene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
2,2–Dichloropropane	1	1 U	R	1 UJ	0.5 U	0.5 U	1 U
Bromochloromethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,1,1–Trichloroethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Carbon Tetrachloride	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,2–Dichloropropane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Bromodichloromethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
cis–1,3–dichloropropene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,1,2–Trichloroethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Dibromochloromethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Tetrachloroethene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Toluene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Chlorobenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Ethylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Bromoform	1	1 UJ	R	1 U	0.5 U	0.5 U	1 UJ
1,2,3–Trichloropropane	1	1 U	R	1 U	1 U	1 U	1 U
Bromobenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
n–Propylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
t–Butylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
sec–Butylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,3 Dichlorobenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,2–Dichlorobenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
n–Butylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,2,4–Trichlorobenzene	1	1 UJ	R	1 U	0.5 U	0.5 U	1 UJ
Napthalene	1	1 UJ	R	1 U	0.5 U	0.5 U	1 UJ

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		DICKINSON-01	DICKINSON-02	DICKINSON-3	DICKINSON-4	DICKINSON-4 BLDUP-3-4	OLIN-01
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]
Sample ID#:		S2491	S3920	9336309	0003-002	0003-004	S2490
Sample Date:		6/4/93	7/1/93	11/22/93	3/1/94	3/1/94	6/5/93
Compound	Detection Limit						
Hexachlorobutadiene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,2,3-Trichlorobenzene	1	1 UJ	R	1 U	1 U	1 U	1 UJ
Chloromethane	1	1 U	R	1 U	1 U	1 U	1 U
Vinyl Chloride	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Acetone	5	R	R	R	0.5 U	0.5 U	R
Methylene Chloride	1	1 U	R	1 U	0.76 U	0.5 U	1 U
2-Butanone	5	R	R	R	0.5 U	0.5 U	R
1,1-Dichloroethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
cis-1,2-dichloroethene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Chloroform	1	1 U	R	1 U	1.1 U	1.1 U	1 U
1,2-Dichloroethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,1-Dichloropropene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Trichloroethene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Dibromomethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Benzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
trans-1,3-Dichloropropene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,3-Dichloropropane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
4-Methyl-2-Pentanone	5	5 U	R	5 U	0.5 U	0.5 U	5 U
1,2-Dibromoethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
-Hexanone	5	5 U	R	5 U	0.5 U	0.5 U	5 U
,1,1,2-Tetrachloroethane	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Xylenes(total)	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,1,2,2-Tetrachloroethane	1	1 UJ	R	1 U	0.5 U	0.5 U	1 UJ
Isopropylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
2/4-Chlorotoluene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,3,5-Trimethylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,2,4-Trimethylbenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
p-Isopropyltoluene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,4-Dichlorobenzene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
Styrene	1	1 U	R	1 U	0.5 U	0.5 U	1 U
1,2-Dibromo-3-Chloropropane	1	R	R	1 U	0.5 U	0.5 U	R

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses - Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		OLIN-02	OLIN-3	OLIN-4	RYSPG-01	RYSPG-01 BLDUP	RYSPG-02
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]
Sample ID#:		S3917	9937103	0003-003	S2394	S2396	S3919
Sample Date:		7/1/93	12/01/93	3/1/94	6/3/93	6/3/93	7/1/93
Compound	Detection Limit						
Dichlorodifluoromethane	1	R	1 U	0.5 U	R	R	R
Bromomethane	1	R	1 U	0.5 U	R	R	R
Chloroethane	1	R	1 U	0.5 U	R	R	R
Trichloroflouromethane	1	R	1 U	0.5 U	R	R	R
Carbon Disulfide	1	R	1 U	0.5 U	R	R	R
1,1 Dichloroethene	1	R	1 U	0.5 U	R	R	R
trans-1,2-dichloroethene	1	R	1 U	0.5 U	R	R	R
2,2-Dichloropropane	1	R	1 UJ	0.5 U	R	R	R
Bromochloromethane	1	R	1 U	0.5 U	R	R	R
1,1,1-Trichloroethane	1	R	1 U	0.5 U	R	R	R
Carbon Tetrachloride	1	R	1 U	0.5 U	R	R	R
1,2-Dichloropropane	1	R	1 U	0.5 U	R	R	R
Bromodichloromethane	1	R	1 U	0.5 U	R	R	R
cis-1,3-dichloropropene	1	R	1 U	0.5 U	R	R	R
1,1,2-Trichloroethane	1	R	1 U	0.5 U	R	R	R
Dibromochloromethane	1	R	1 U	0.5 U	R	R	R
Tetrachloroethene	1	R	1 U	0.5 U	R	R	R
Toluene	1	R	1 U	0.5 U	R	R	R
Chlorobenzene	1	R	1 U	0.5 U	R	R	R
Ethylbenzene	1	R	1 U	0.5 U	R	R	R
Bromoform	1	R	1 U	0.5 U	R	R	R
1,2,3-Trichloropropane	1	R	1 U	0.5 U	R	R	R
Bromobenzene	1	R	1 U	0.5 U	R	R	R
n-Propylbenzene	1	R	1 U	0.5 U	R	R	R
t-Butylbenzene	1	R	1 U	0.5 U	R	R	R
sec-Butylbenzene	1	R	1 U	0.5 U	R	R	R
1,3 Dichlorobenzene	1	R	1 U	0.5 U	R	R	R
1,2-Dichlorobenzene	1	R	1 U	0.5 U	R	R	R
n-Butylbenzene	1	R	1 U	0.5 U	R	R	R
1,2,4-Trichlorobenzene	1	R	1 U	0.5 U	R	R	R
Napthalene	1	R	1 U	0.5 U	R	R	R

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
[1] - Subcontracted to H2M Labs.
[2] - Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		OLIN-02	OLIN-3	OLIN-4	RYSPG-01	RYSPG-01 BLDUP	RYSPG-02
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]
Sample ID#:		S3917	9937103	0003-003	S2394	S2396	S3919
Sample Date:		7/1/93	12/01/93	3/1/94	6/3/93	6/3/93	7/1/93
Compound	Detection Limit						
Hexachlorobutadiene	1	R	1 U	0.5 U	R	R	R
1,2,3-Trichlorobenzene	1	R	R	0.5 U	R	R	R
Chloromethane	1	R	1 U	0.5 U	R	R	R
Vinyl Chloride	1	R	1 U	0.5 U	R	R	R
Acetone	5	R	R	0.5 U	R	R	R
Methylene Chloride	1	R	1 U	0.5 U	R	R	R
2-Butanone	5	R	R	0.5 U	R	R	R
1,1-Dichloroethane	1	R	1 U	0.5 U	R	R	R
cis-1,2-dichloroethene	1	R	1 U	0.5 U	R	R	R
Chloroform	1	R	1 U	0.5 U	R	R	R
1,2-Dichloroethane	1	R	1 U	0.5 U	R	R	R
1,1-Dichloropropene	1	R	1 U	0.5 U	R	R	R
Trichloroethene	1	R	1 U	0.5 U	R	R	R
Dibromomethane	1	R	1 U	0.5 U	R	R	R
Benzene	1	R	1 U	0.5 U	R	R	R
trans-1,3-Dichloropropene	1	R	1 U	0.5 U	R	R	R
1,3-Dichloropropane	1	R	1 U	0.5 U	R	R	R
4-Methyl-2-Pentanone	5	R	5 U	0.5 U	R	R	R
1,2-Dibromoethane	1	R	1 U	0.5 U	R	R	R
?-Hexanone	5	R	5 U	0.5 U	R	R	R
,1,1,2-Tetrachloroethane	1	R	1 U	0.5 U	R	R	R
Xylenes(total)	1	R	1 U	0.5 U	R	R	R
1,1,2,2-Tetrachloroethane	1	R	1 U	1 U	R	R	R
Isopropylbenzene	1	R	1 U	0.5 U	R	R	R
2/4-Chlorotoluene	1	R	1 U	0.5 U	R	R	R
1,3,5-Trimethylbenzene	1	R	1 U	0.5 U	R	R	R
1,2,4-Trimethylbenzene	1	R	1 U	1 U	R	R	R
p-Isopropyltoluene	1	R	1 U	0.5 U	R	R	R
1,4-Dichlorobenzene	1	R	1 U	0.5 U	R	R	R
Styrene	1	R	1 U	0.5 U	R	R	R
1,2-Dibromo-3-Chloropropane	1	R	1 U	0.5 U	R	R	R

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		RYSPG–02 BLDUP	RYDSPR–3	RYDSPR–3 BLDUP–2–3	RYDER SPG–4	QC TR BK	QC TR BK
Latitude:		[2]	[2]	[2]	[2]	NA	NA
Longitude:		[2]	[2]	[2]	[2]	NA	NA
Sample ID#:		S3921	9336308	9336310	0003–001	S2397	S2496
Sample Date:		7/1/93	11/22/93	11/22/93	3/1/94	6/3/93	6/4/93
Compound	Detection Limit						
Dichlorodifluoromethane	1	R	1 U	1 U	0.5 U	R	2 U
Bromomethane	1	R	1 U	1 U	0.5 U	R	2 U
Chloroethane	1	R	1 U	1 U	0.5 U	R	2 UJ
Trichloroflouromethane	1	R	1 U	1 U	0.5 U	R	2 UJ
Carbon Disulfide	1	R	1 U	1 U	0.5 U	R	2 U
1,1 Dichloroethene	1	R	1 U	1 U	0.5 U	R	2 U
trans–1,2–dichloroethene	1	R	1 U	1 U	0.5 U	R	2 U
2,2–Dichloropropane	1	R	1 UJ	1 UJ	0.5 U	R	2 U
Bromochloromethane	1	R	1 U	1 U	0.5 U	R	2 U
1,1,1–Trichloroethane	1	R	1 U	1 U	0.5 U	R	2 U
Carbon Tetrachloride	1	R	1 U	1 U	0.5 U	R	2 U
1,2–Dichloropropane	1	R	1 U	1 U	0.5 U	R	2 U
Bromodichloromethane	1	R	1 U	1 U	0.5 U	R	2 U
cis–1,3–dichloropropene	1	R	1 U	1 U	0.5 U	R	2 U
1,1,2–Trichloroethane	1	R	1 U	1 U	0.5 U	R	2 U
Dibromochloromethane	1	R	1 U	1 U	0.5 U	R	2 U
Tetrachloroethene	1	R	1 U	1 U	0.5 U	R	2 U
Toluene	1	R	1 U	1 U	0.5 U	R	2 U
Chlorobenzene	1	R	1 U	1 U	0.5 U	R	2 U
Ethylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
Bromoform	1	R	1 U	1 U	0.5 U	R	2 U
1,2,3–Trichloropropane	1	R	1 U	1 U	1 U	R	2 U
Bromobenzene	1	R	1 U	1 U	0.5 U	R	2 U
n–Propylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
t–Butylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
sec–Butylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
1,3 Dichlorobenzene	1	R	1 U	1 U	0.5 U	R	2 U
1,2–Dichlorobenzene	1	R	1 U	1 U	0.5 U	R	2 U
n–Butylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
1,2,4–Trichlorobenzene	1	R	1 U	1 U	0.5 U	R	2 UJ
Napthalene	1	R	1 U	1 U	0.5 U	R	2 UJ

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		RYSPG–02 BLDUP	RYDSPR–3	RYDSPR–3 BLDUP–2–3	RYDER SPG–4	QC TR BK	QC TR BK
Latitude:		[2]	[2]	[2]	[2]	NA	NA
Longitude:		[2]	[2]	[2]	[2]	NA	NA
Sample ID#:		S3921	9336308	9336310	0003–001	S2397	S2496
Sample Date:		7/1/93	11/22/93	11/22/93	3/1/94	6/3/93	6/4/93
Compound	Detection Limit						
Hexachlorobutadiene	1	R	1 U	1 U	0.5 U	R	R
1,2,3–Trichlorobenzene	1	R	1 U	1 U	0.5 U	R	R
Chloromethane	1	R	1 U	1 U	1.2 U	R	2 U
Vinyl Chloride	1	R	1 U	1 U	0.5 U	R	2 U
Acetone	5	R	R	R	R	R	R
Methylene Chloride	1	R	1 U	1 U	0.5 U	R	2 U
2–Butanone	5	R	R	R	R	R	R
1,1–Dichloroethane	1	R	1 U	1 U	0.5 U	R	2 U
cis–1,2–dichloroethene	1	R	1 U	1 U	0.5 U	R	2 U
Chloroform	1	R	1 U	1 U	0.5 U	R	2 U
1,2–Dichloroethane	1	R	1 U	1 U	0.5 U	R	2 U
1,1–Dichloropropene	1	R	1 U	1 U	0.5 U	R	2 U
Trichloroethene	1	R	1 U	1 U	0.5 U	R	2 U
Dibromomethane	1	R	1 U	1 U	0.5 U	R	2 U
Benzene	1	R	1 U	1 U	0.5 U	R	2 U
trans–1,3–Dichloropropene	1	R	1 U	1 U	0.5 U	R	2 U
1,3–Dichloropropane	1	R	1 U	1 U	0.5 U	R	2 U
4–Methyl–2–Pentanone	5	R	5 U	5 U	0.5 U	R	8 UJ
1,2–Dibromoethane	1	R	1 U	1 U	0.5 U	R	2 U
'–Hexanone	5	R	5 U	5 U	0.5 U	R	8 U
,1,1,2–Tetrachloroethane	1	R	1 U	1 U	0.5 U	R	2 U
Xylenes(total)	1	R	1 U	1 U	0.5 U	R	2 U
1,1,2,2–Tetrachloroethane	1	R	1 U	1 U	0.5 U	R	2 U
Isopropylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
2/4–Chlorotoluene	1	R	1 U	1 U	0.5 U	R	2 U
1,3,5–Trimethylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
1,2,4–Trimethylbenzene	1	R	1 U	1 U	0.5 U	R	2 U
p–Isopropyltoluene	1	R	1 U	1 U	0.5 U	R	2 U
1,4–Dichlorobenzene	1	R	1 U	1 U	0.5 U	R	2 U
Styrene	1	R	1 U	1 U	0.5 U	R	2 U
1,2–Dibromo–3–Chloropropane	1	R	1 U	1 U	0.5 U	R	R

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		QC TR BK	QC TR BK	EQBLANK	QCTRIP
Latitude:		NA	NA	NA	NA
Longitude:		NA	NA	NA	NA
Sample ID#:		S2507	S3923	9335946	9337104
Sample Date:		6/5/93	7/1/93	11/17/93	12/01/93
Compound	Detection Limit				
Dichlorodifluoromethane	1	2 U	R	1 U	1 U
Bromomethane	1	2 U	R	1 U	1 U
Chloroethane	1	2 UJ	R	1 U	1 U
Trichloroflouromethane	1	2 UJ	R	1 U	1 U
Carbon Disulfide	1	2 U	R	1 U	1 U
1,1 Dichloroethene	1	2 U	R	1 U	1 U
trans-1,2-dichloroethene	1	2 U	R	1 U	1 U
2,2-Dichloropropane	1	2 U	R	1 UJ	1 UJ
Bromochloromethane	1	2 U	R	1 U	1 U
1,1,1-Trichloroethane	1	2 U	R	1 U	1 U
Carbon Tetrachloride	1	2 U	R	1 U	1 U
1,2-Dichloropropane	1	2 U	R	1 U	1 U
Bromodichloromethane	1	2 U	R	1 U	1 U
cis-1,3-dichloropropene	1	2 U	R	1 U	1 U
1,1,2-Trichloroethane	1	2 U	R	1 U	1 U
Dibromochloromethane	1	2 U	R	1 U	1 U
Tetrachloroethene	1	2 U	R	1 U	1 U
Toluene	1	2 U	R	1 U	1 U
Chlorobenzene	1	2 U	R	1 U	1 U
Ethylbenzene	1	2 U	R	1 U	1 U
Bromoform	1	2 U	R	1 U	1 U
1,2,3-Trichloropropane	1	2 U	R	1 U	1 U
Bromobenzene	1	2 U	R	1 U	1 U
n-Propylbenzene	1	2 U	R	1 U	1 U
t-Butylbenzene	1	2 U	R	1 U	1 U
sec-Butylbenzene	1	2 U	R	1 U	1 U
1,3 Dichlorobenzene	1	2 U	R	1 U	1 U
1,2-Dichlorobenzene	1	2 U	R	1 U	1 U
n-Butylbenzene	1	2 U	R	1 U	1 U
1,2,4-Trichlorobenzene	1	2 UJ	R	1 U	1 U
Napthalene	1	2 UJ	R	1 U	1 U

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 11

Ground Water Volatile Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		QC TR BK		QC TR BK		EQBLANK		QCTRIP	
Latitude:		NA		NA		NA		NA	
Longitude:		NA		NA		NA		NA	
Sample ID#:		S2507		S3923		9335946		9337104	
Sample Date:		6/5/93		7/1/93		11/17/93		12/01/93	
Compound	Detection Limit								
Hexachlorobutadiene	1		R		R	1	U	1	U
1,2,3–Trichlorobenzene	1		R		R	1	U	1	U
Chloromethane	1	2	U		R	1	U	1	U
Vinyl Chloride	1	2	U		R	1	UJ	1	U
Acetone	5		R		R	R		R	
Methylene Chloride	1	2	U		R	1	U	1	U
2–Butanone	5		R		R	R		R	U
1,1–Dichloroethane	1	2	U		R	1	U	1	U
cis–1,2–dichloroethene	1	2	U		R	1	U	1	U
Chloroform	1	2	U		R	1	U	1	U
1,2–Dichloroethane	1	2	U		R	1	U	1	U
1,1–Dichloropropene	1	2	U		R	1	U	1	U
Trichloroethene	1	2	U		R	1	U	1	U
Dibromomethane	1	2	U		R	1	U	1	U
Benzene	1	2	U		R	1	U	1	U
trans–1,3–Dichloropropene	1	2	U		R	1	U	1	U
1,3–Dichloropropane	1	2	U		R	1	U	1	U
4–Methyl–2–Pentanone	5	8	UJ		R	5	U	5	U
1,2–Dibromoethane	1	2	U		R	1	U	1	U
?–Hexanone	5	8	U		R	5	U	5	U
,1,1,2–Tetrachloroethane	1	2	U		R	1	U	1	U
Xylenes(total)	1	2	U		R	1	U	1	U
1,1,2,2–Tetrachloroethane	1	2	U		R	1	U	1	U
Isopropylbenzene	1	2	U		R	1	U	1	U
2/4–Chlorotoluene	1	2	U		R	1	U	1	U
1,3,5–Trimethylbenzene	1	2	U		R	1	U	1	U
1,2,4–Trimethylbenzene	1	2	U		R	1	U	1	U
p–Isopropyltoluene	1	2	U		R	1	U	1	U
1,4–Dichlorobenzene	1	2	U		R	1	U	1	U
Styrene	1	2	U		R	1	U	1	U
1,2–Dibromo–3–Chloropropane	1		R		R	1	U	1	U

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.
[1] – Subcontracted to H2M Labs.
[2] – Location coordinates for these wells were not specified in the QAPP.

Table 12A

Ground Water Semi-volatile Organic Analyses - Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01S1-01	W-01S1-02	W-01S1-03	SBW-10-01	SBW-10-01 BLDUP	SBW-10-02	SBW-10-03	SBW-11-03
Latitude		42-52-44	42-52-44	42-52-44	42-52-45	42-52-45	42-52-45	42-52-45	42-52-45
Longitude		73-08-58	73-08-58	73-08-58	73-08-59	73-08-59	73-08-59	73-08-59	73-08-59
Sample ID #:		S1913	S3254	0001-SA	S1912	S1914	F 3255	0002-SA	0002-SA
Sample Date:		5/25/93	6/22/93	11/22/93	5/25/93	5/25/93	6/22/93	11/30/93	11/30/93
Compound	Detection Limit								
Phenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
Bis(2-chloroethyl)ether	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2-Chlorophenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
1,3-Dichlorobenzene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
1,4-Dichlorobenzene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	20 U
Benzyl alcohol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
1,2-Dichlorobenzene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2-Methylphenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
Bis(2-chloroisopropyl)ether	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
4-Methylphenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
N-Nitrosodiphenylamine	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Hexachloroethane	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Nitrobenzene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Isophorone	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2-Nitrophenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	50 U
2,4-Dimethylphenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
Benzoic Acid	50	54 U	50 U	50 U	53 U	50 U	52 U	R	10 U
Bis(2-chloroethoxy)methane	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2,4-Dichlorophenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
1,2,4-Trichlorobenzene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Naphthalene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	50 U
4-Chloroaniline	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Hexachlorobutadiene	9	11 U	10 U	9 U	11 U	10 U	11 U	9 U	9 U
4-Chloro-3-methylphenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
2-Methylnaphthalene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Hexachlorocyclopentadiene	9	11 U	10 U	5 U	11 U	10 U	11 U	5 U	5 U
2,4,6-Trichlorophenol	10	11 U	10 U	10 U	11 U	10 U	11 U	R	10 U
2,4,5-Trichlorophenol	50	54 U	50 U	50 U	53 U	50 U	52 U	R	50 U
2-Chloronaphthalene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2-Nitroaniline	50	54 U	50 U	50 U	53 U	50 U	52 U	50 U	50 U
Dimethylphthalate	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Acenaphthylene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
3-Nitroaniline	50	54 U	50 U	50 U	53 U	50 U	52 U	50 U	50 U
Acenphthene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2,4-Dinitrophenol	50	54 U	50 U	50 U	53 U	50 U	52 U	R	50 U
4-Nitrophenol	50	54 U	50 U	50 U	53 U	50 U	52 U	R	10 U
Dibenzofuran	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2,4-Dinitrotoluene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
2,6-Dinitrotoluene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Diethylphthalate	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses - Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01S1-01	W-01S1-02	W-01S1-03	SBW-10-01	SBW-10-01 BLDUP	SBW-10-02	SBW-10-03	SBW-11-03
Latitude		42-52-44	42-52-44	42-52-44	42-52-45	42-52-45	42-52-45	42-52-45	42-52-45
Longitude		73-08-58	73-08-58	73-08-58	73-08-59	73-08-59	73-08-59	73-08-59	73-08-59
Sample ID #:		S1913	S3254	0001-SA	S1912	S1914	S3255	0002-SA	0002-SA
Sample Date:		5/25/93	6/22/93	11/22/93	5/25/93	5/25/93	6/22/93	11/30/93	11/30/93
Compound	Detection Limit								
4-Chlorophenyl-phenylether	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Fluorene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
4-Nitroaniline	50	54 U	50 U	50 U	53 U	50 U	52 U	50 U	10 U
4,6-Dinitro-2-methylphenol	50	54 U	50 U	50 U	53 U	50 U	52 U	R	50 U
N-Nitroso-di-n-propylamine	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
4-Bromophenyl-phenylether	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Hexachlorobenzene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Pentachlorophenol	25	54 U	50 U	10 U	53 U	50 U	52 U	R	10 U
Phenanthrene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Anthracene	10	11 U	10 U	10 U	11 U	10 U	11 U	10 U	10 U
Di-n-butylphthalate	10	11 U	10 U	10 U	11 U	R	11 U	10 U	10 U
Fluoranthene	10	11 U	10 U	10 U	11 U	R	11 U	10 U	10 U
Pyrene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Butylbenzylphthalate	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
3,3'-Dichlorobenzidine	20	22 U	R	20 U	21 U	R	21 U	20 U	10 U
Benzo(a)anthracene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	10	11 U	R	10 U	11 U	R	11 U	7.3 J	3.2 J
Chrysene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Di-n-octylphthalate	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Benzo(b)fluoranthene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Benzo(k)fluoranthene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Benzo(a)pyrene	10	11 U	R	10 U	11 U	R	11 U	10 U	50 U
Indeno(1,2,3-cd)pyrene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Dibenz(a,h)anthracene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Benzo(g,h,i)perylene	10	11 U	R	10 U	11 U	R	11 U	10 U	10 U
Total TICs		1352 J	137 J		1205 J	152 J	33 J		

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses - Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		SBW-21-01	SBW-21-02	SBW-21-03	W-23T-01	W-23T-02	W-23T-03	W-24T-01	W-24T-02
Latitude		42-52-42	42-52-42	42-52-42	42-52-38	42-52-38	42-52-38	42-52-35	42-52-35
Longitude		73-09-00	73-09-00	73-09-00	73-08-57	73-08-57	73-08-57	73-09-00	73-09-00
Sample ID #:		S2001	S3341	0004-SA	S1863	S3252	0008-SA	S1864	S3253
Sample Date:		5/25/93	6/23/93	11/22/93	5/24/93	6/22/93	11/23/93	5/24/93	6/22/93
Compound	Detection Limit								
Phenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
2-Chlorophenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
Benzyl alcohol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
2-Methylphenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
4-Methylphenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	12 U	10 U	10 U	R	50 U
Hexachloroethane	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
Isophorone	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
2-Nitrophenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
2,4-Dimethylphenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
Benzoic Acid	50	53 U	50 UJ	50 U	61 U	50 U	50 U	56 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
2,4-Dichlorophenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
Naphthalene	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	12 U	10 U	10 U	11 U	10 U
Hexachlorobutadiene	9	10 U	10 U	9 U	12 U	10 U	5 U	11 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	11 U	10 U
2-Methylnaphthalene	10	10 U	12	14	12 U	10 U	10 U	11 U	10 U
Hexachlorocyclopentadiene	9	10 U	10 U	5 U	12 U	10 U	10 U	R	10 U
2,4,6-Trichlorophenol	10	10 U	10 UJ	10 U	12 U	10 U	10 U	R	10 U
2,4,5-Trichlorophenol	50	53 U	50 UJ	50 U	61 U	50 U	50 U	R	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	12 U	10 U	10 U	R	50 U
2-Nitroaniline	50	53 U	50 U	50 U	61 U	50 U	50 U	R	10 U
Dimethylphthalate	10	10 U	10 U	10 U	12 U	10 U	10 U	R	50 U
Acenaphthylene	10	10 U	10 U	10 U	12 U	10 U	10 U	R	10 U
3-Nitroaniline	50	53 U	50 U	50 U	61 U	50 U	50 U	R	10 U
Acenphthene	10	10 U	10 U	1.7 J	12 U	10 U	10 U	R	50 U
2,4-Dinitrophenol	50	10 U	50 UJ	50 U	61 U	50 U	50 U	R	10 U
4-Nitrophenol	50	53 U	50 U	50 U	61 U	50 U	50 U	R	50 U
Dibenzofuran	10	10 U	10 U	10 U	12 U	10 U	10 U	R	50 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	12 U	10 U	10 U	R	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	12 U	10 U	10 U	R	10 U
Diethylphthalate	10	10 U	10 U	10 U	12 U	10 U	10 U	R	10 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		SBW-21-01		SBW-21-02		SBW-21-03		W-23T-01		W-23T-02		W-23T-03		W-24T-01		W-24T-02	
Latitude		42-52-42		42-52-42		42-52-42		42-52-38		42-52-38		42-52-38		42-52-35		42-52-35	
Longitude		73-09-00		73-09-00		73-09-00		73-08-57		73-08-57		73-08-57		73-09-00		73-09-00	
Sample ID #:		S2001		S3341		0004-SA		S1863		S3252		0008-SA		S1864		S3253	
Sample Date:		5/25/93		6/23/93		11/22/93		5/24/93		6/22/93		11/23/93		5/24/93		6/22/93	
Compound	Detection Limit																
4-Chlorophenyl-phenylether	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Fluorene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
4-Nitroaniline	50	53	U	50	U	50	U	61	U	50	U	50	U	R		10	U
4,6-Dinitro-2-methylphenol	50	53	U	50	UJ	50	U	61	U	50	U	50	U	R		50	U
N-Nitroso-di-n-propylamine	10	10	U	10	U	10	U	12	U	10	U	10	U	11	U	10	U
4-Bromophenyl-phenylether	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Hexachlorobenzene	10	10	U	10	U	10	U	12	U	10	U	9	U	R		10	U
Pentachlorophenol	25	53	U	50	UJ	10	U	61	U	50	U	10	U	R		10	U
Phenanthrene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		50	U
Anthracene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Di-n-butylphthalate	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Fluoranthene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Pyrene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Butylbenzylphthalate	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
3,3'-Dichlorobenzidine	20	21	U	20	U	20	U	24	U	20	U	20	U	R		10	U
Benzo(a)anthracene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		20	U
Bis(2-ethylhexyl)phthalate	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Chrysene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Di-n-octylphthalate	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Benzo(b)fluoranthene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Benzo(k)fluoranthene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Benzo(a)pyrene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Indeno(1,2,3-cd)pyrene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Dibenz(a,h)anthracene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Benzo(g,h,i)perylene	10	10	U	10	U	10	U	12	U	10	U	10	U	R		10	U
Total TICs		697	J	1254	J			1222	J	1794	J			2059	J	53	J

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-24T-03	W-24T-03 BLDUP-3-3	W-07S1-01	W-07S1-02	W-07S1-02 BLDUP-1-2	W-07S1-03	W-08S1-01	W-08S1-02
Latitude		42-52-35	42-52-35	42-52-44	42-52-44	42-52-44	42-52-44	42-52-40	42-52-40
Longitude		73-09-00	73-09-00	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0009-SA	0010-SA	S2129	S3448	S3447	0008-SA	S1915	S3340
Sample Date:		11/23/93	11/23/93	5/28/93	6/24/93	6/23/93	11/30/93	5/25/93	6/22/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
Benzoic Acid	50	50 U	50 U	50 U	50 U	R	R	50 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	11	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	9 U	9 U	10 U	10 U	9 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	5 U	5 U	10 U	10 U	5 U	5 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	R	R	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	50 U	R	R	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	R	R	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	R	R	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-24T-03	W-24T-03 BLDUP-3-3	W-07S1-01	W-07S1-02	W-07S1-02 BLDUP-1-2	W-07S1-03	W-08S1-01	W-08S1-02
Latitude		42-52-35	42-52-35	42-52-44	42-52-44	42-52-44	42-52-44	42-52-40	42-52-40
Longitude		73-09-00	73-09-00	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0009-SA	0010-SA	S2129	S3448	3447	0008-SA	S1915	S3340
Sample Date:		11/23/93	11/23/93	5/28/93	6/24/93	6/23/93	11/30/93	5/25/93	6/22/93
Compound	Detection Limit								
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	50 U	50 U	50 U	R	R	50 U	50 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	10 U	10 U	50 U	50 U	R	R	50 U	50 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	10	10 U	10 U	10 U	10 U	2.4 J	2.4 J	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs				2288 J	284 J				647 J

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08S1-03	W-02-01	W-02-02	W-02-03	W-02-03 BLDUP-4-3	W-03-01	W-03-02	W-03-03
Latitude		42-52-40	42-52-39	42-52-39	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38
Longitude		73-09-02	73-09-01	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00	73-09-00
Sample ID #:		0003-SA	S2058	S3450	0002-SA	0011-SA	S2056	S3444	0005-SA
Sample Date:		11/23/93	5/27/93	6/24/93	11/29/93	11/29/93	5/26/93	6/24/93	11/29/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	12 U	1.6 J	2.6 J	10 U	10 U	1.4 J
Benzyl alcohol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50	9.9 J	52 U	60 U	50 U	50 U	50 U	50 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	9 U	10 U	12 U	9 U	9 U	10 U	10 U	5 U
4-Chloro-3-methylphenol	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	5 U	10 U	R	5 U	5 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	52 U	R	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	52 U	R	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	52 U	R	50 U	50 U	50 U	53 U	50 U
Acenphthene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	50 U	52 U	R	50 U	50 U	50 U	53 U	50 U
4-Nitrophenol	50	50 U	52 U	R	50 U	50 U	50 U	53 U	50 U
Dibenzofuran	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08S1-03	W-02-01	W-02-02	W-02-03	W-02-03 BLDUP-4-3	W-03-01	W-03-02	W-03-03
Latitude		42-52-40	42-52-39	42-52-39	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38
Longitude		73-09-02	73-09-01	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00	73-09-00
Sample ID #:		0003-SA	S2058	S3450	0002-SA	0011-SA	S2056	S3444	0005-SA
Sample Date:		11/23/93	5/27/93	6/24/93	11/29/93	11/29/93	5/26/93	6/24/93	11/29/93
Compound	Detection Limit								
4-Chlorophenyl-phenylether	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	50 U	52 U	R	50 U	50 U	50 U	53 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	52 U	R	50 U	50 U	50 U	53 U	50 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	12 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	9 U
Pentachlorophenol	25	50 U	50 U	R	10 U	10 U	50 U	53 U	50 U
Phenanthrene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	25 J	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	R	20 U	20 U	20 U	21 U	20 U
Benzo(a)anthracene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	R	10 U	10 U	10 U	10 U	10 U
Total TICs		1033 J		3199 J	NA			3276 J	126 J

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-03T-01	W-03T-02	W-03T-03	W-04S-01	W-04S-02	W-04S-03	W-05-01	W-05-02
Latitude		42-52-39	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-39	42-52-39
Longitude		73-09-00	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00
Sample ID #:		S2060	S3446	0006-SA	S2057	S3342	0003-SA	S2061	S3443
Sample Date:		5/27/93	6/24/93	11/29/93	5/26/93	6/23/93	11/29/93	5/27/93	6/24/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	29	10 U	12 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	1.3 J	12 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	2.4 J	12 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 UJ
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Benzoic Acid	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Hexachlorobutadiene	9	10 U	10 U	9 U	10 U	10 U	9 U	12 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Hexachlorocyclopentadiene	9	10 U	10 U	5 U	10 U	10 U	5 U	12 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses - Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-03T-01	W-03T-02	W-03T-03	W-04S-01	W-04S-02	W-04S-03	W-05-01	W-05-02
Latitude		42-52-39	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-39	42-52-39
Longitude		73-09-00	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00
Sample ID #:		S2060	S3446	0006-SA	S2057	S3342	0003-SA	S2061	S3443
Sample Date:		5/27/93	6/24/93	11/29/93	5/26/93	6/23/93	11/29/93	5/27/93	6/24/93
Compound	Detection Limit								
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
4-Nitroaniline	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	50 U	50 U	50 U	53 U	50 U	59 U	50 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Pentachlorophenol	25	50 U	50 U	10 U	50 U	53 U	53 U	59 U	50 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	20 U	20 U	21 U	20 U	24 U	20 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Bis(2-ethylhexyl)phthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U	12 U	10 U
Total TICs			3194 J	700 J		291 J	246 J		177 J

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-05-02 BLDUP	W-05-03	W-06S-01	W-06S-02	W-06S-03	W-11S1-03	W-TP-12-05
Latitude		42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-40	42-52-40
Longitude		73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-00	73-09-01
Sample ID #:		S3447	0004-SA	S2062	3445	0007-SA	0006-SA	T9401
Sample Date:		6/24/93	11/29/93	5/27/93	6/23/93	11/29/93	11/30/93	7/6/94
Compound	Detection Limit							
Phenol	10	R	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	R	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	32
Benzyl alcohol	10	R	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	R	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	12 J	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50	53 U	50 U	50 U	50 U	50 U	50 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	10 U	9 U	10 U	10 U	9 U	9 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	10 U	5 U	10 U	10 U	5 U	5 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	53 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	53 U	50 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-05-02 BLDUP		W-05-03		W-06S-01		W-06S-02		W-06S-03		W-11S1-03		W-TP-12-05	
Latitude		42-52-39		42-52-39		42-52-38		42-52-38		42-52-38		42-52-40		42-52-40	
Longitude		73-09-00		73-09-00		73-09-01		73-09-01		73-09-01		73-09-00		73-09-01	
Sample ID #:		S3447		0004-SA		S2062		S3445		0007-SA		0006-SA		T9401	
Sample Date:		6/24/93		11/29/93		5/27/93		6/23/93		11/29/93		11/30/93		7/6/94	
Compound	Detection Limit														
4-Chlorophenyl-phenylether	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluorene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	50	50	U	50	U	50	U	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	50	U	50	U	50	U	50	U	50	U	50	U	50	U
N-Nitroso-di-n-propylamine	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	25	50	U	10	U	50	U	50	U	10	U	10	U	50	U
Phenanthrene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Anthracene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Fluoranthene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pyrene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Butylbenzylphthalate	10	10	U	10	U	10	U	R		10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	20	U	20	U	20	U	R		20	U	20	U	20	U
Benzo(a)anthracene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Bis(2-ethylhexyl)phthalate	10	10	U	10	U	10	U	R		10	U	3.2	J	10	U
Chrysene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Di-n-octylphthalate	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Benzo(b)fluoranthene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Benzo(k)fluoranthene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Benzo(a)pyrene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Dibenz(a,h)anthracene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Benzo(g,h,i)perylene	10	10	U	10	U	10	U	R		10	U	10	U	10	U
Total TICs		1073	J	6519	J			13	J	547	J				

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses – Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-TP-12-05 BLDUP 2-6	
Latitude		NA	
Longitude		NA	
Sample ID #:		T9403	
Sample Date:		7/6/94	
Compound	Detection Limit		
Phenol	10	10	U
Bis(2-chloroethyl)ether	10	10	U
2-Chlorophenol	10	10	U
1,3-Dichlorobenzene	10	12	
1,4-Dichlorobenzene	10	37	
Benzyl alcohol	10	10	U
1,2-Dichlorobenzene	10	10	U
2-Methylphenol	10	10	U
Bis(2-chloroisopropyl)ether	10	10	U
4-Methylphenol	10	10	U
N-Nitrosodiphenylamine	10	10	U
Hexachloroethane	10	10	U
Nitrobenzene	10	10	U
Isophorone	10	10	U
2-Nitrophenol	10	10	U
2,4-Dimethylphenol	10	10	U
Benzoic Acid	50	50	U
Bis(2-chloroethoxy)methane	10	10	U
2,4-Dichlorophenol	10	10	U
1,2,4-Trichlorobenzene	10	10	U
Naphthalene	10	10	U
4-Chloroaniline	10	10	U
Hexachlorobutadiene	9	10	U
4-Chloro-3-methylphenol	10	10	U
2-Methylnaphthalene	10	10	U
Hexachlorocyclopentadiene	9	10	U
2,4,6-Trichlorophenol	10	10	U
2,4,5-Trichlorophenol	50	50	U
2-Chloronaphthalene	10	10	U
2-Nitroaniline	50	50	U
Dimethylphthalate	10	10	U
Acenaphthylene	10	10	U
3-Nitroaniline	50	50	U
Acenphthene	10	10	U
2,4-Dinitrophenol	50	50	U
4-Nitrophenol	50	50	U
Dibenzofuran	10	10	U
2,4-Dinitrotoluene	10	10	U
2,6-Dinitrotoluene	10	10	U
Diethylphthalate	10	10	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12A

Ground Water Semi-volatile Organic Analyses - Method 8270
Shallow Wells
Burgess Brothers Supefund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:	W-TP-12-05 BLDUP 2-5	
Latitude	NA	
Longitude	NA	
Sample ID #:	T9403	
Sample Date:	7/6/94	
Compound	Detection Limit	
4-Chlorophenyl-phenylether	10	10 U
Fluorene	10	10 U
4-Nitroaniline	50	50 U
4,6-Dinitro-2-methylphenol	50	50 U
N-Nitroso-di-n-propylamine	10	10 U
4-Bromophenyl-phenylether	10	10 U
Hexachlorobenzene	10	10 U
Pentachlorophenol	25	10 U
Phenanthrene	10	10 U
Anthracene	10	10 U
Di-n-butylphthalate	10	10 U
Fluoranthene	10	10 U
Pyrene	10	10 U
Butylbenzylphthalate	10	10 U
3,3'-Dichlorobenzidine	20	20 U
Benzo(a)anthracene	10	10 U
Bis(2-ethylhexyl)phthalate	10	10 U
Chrysene	10	10 U
Di-n-octylphthalate	10	10 U
Benzo(b)fluoranthene	10	10 U
Benzo(k)fluoranthene	10	10 U
Benzo(a)pyrene	10	10 U
Indeno(1,2,3-cd)pyrene	10	10 U
Dibenz(a,h)anthracene	10	10 U
Benzo(g,h,i)perylene	10	10 U
Total TICs		

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses – Method 8270

Deep Wells

Burgess Brothers Superfund Site

Remedial Investigation

Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01B-01	W01B-02	W01B-03	W-04SI-01	W-04SI-01 BLDUP	W-04SI-02	W-04SI-03	W-04DI-01
Latitude		42-52-44	42-52-44	42-52-44	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude		73-08-58	73-08-58	73-08-58	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		S2391	S3825	0004-SA	S2327	S2328	S3624	0010-SA	S2493
Sample Date		6/3/93	6/28/93	12/02/93	6/2/93	6/2/93	6/28/93	11/30/93	6/4/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50	50 U	50 U	50 U	52 U	52 U	50 U	21 J	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	10 U	10 U	9 U	10 U	10 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	10 U	10 U	5 U	10 U	10 U	10 U	5 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses – Method 8270

Deep Wells

Burgess Brothers Superfund Site

Remedial Investigation

Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:	W-01B-01	W01B-02	W01B-03	W-04SI-01	W-04SI-01 BLDUP	W-04SI-02	W-04SI-03	W-04DI-01
Latitude	42-52-44	42-52-44	42-52-44	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude	73-08-58	73-08-58	73-08-58	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:	S2391	S3625	0004-SA	S2327	S2328	S3624	0010-SA	S2493
Sample Date:	6/3/93	6/28/93	12/[illegible]/93	6/2/93	6/2/93	6/28/93	11/30/93	6/4/93
Fluorene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline 50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol 50	50 U	50 U	50 U	52 U	52 U	50 U	50 U	50 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol 25	50 U	50 U	10 U	52 U	52 U	50 U	10 U	50 U
Phenanthrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	R
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	R
3,3'-Dichlorobenzidine 20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	R
Benzo(a)anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	R
Bis(2-ethylhexyl)phthalate 10	10 U	10 U	4.7 J	10 U	10 U	10 U	5 J	R
Chrysene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	R
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	10 U	R	1.6 J	R
Benzo(b)fluoranthene 10	10 U	10 U	10 U	10 U	10 U	R	10 U	R
Benzo(k)fluoranthene 10	10 U	10 U	10 U	10 U	10 U	R	10 U	R
Benzo(a)pyrene 10	10 U	10 U	10 U	10 U	10 U	R	10 U	R
Indeno(1,2,3-cd)pyrene 10	10 U	10 U	10 U	10 U	10 U	R	10 U	R
Dibenz(a,h)anthracene 10	10 U	10 U	10 U	10 U	10 U	R	10 U	R
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	10 U	R	10 U	R
Total TICs	22 J	NA	NA	310 J	NA	1858 J	NA	571 J

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses - Method 8270
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04DI-02	W-04DI-03	W-04B-01	W-04B-02	W-04B-03	W-07SI-01	W-07SI-02	W-07SI-03
Latitude		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-44	42-52-44	42-52-44
Longitude		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-02	73-09-02	73-09-02
Sample ID #:		S3714	0001-SA	S2494	S3713	0006-SA	S2392	S3794	0008-SA
Sample Date:		6/29/93	12/01/93	6/4/93	6/29/93	12/01/93	6/3/93	6/30/93	11/30/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	10 U	9 U	10 U	10 U	9 U	10 U	10 U	9 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	10 U	5 U	10 U	10 U	5 U	10 U	10 U	5 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses - Method 8270
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04DI-02	W-04DI-03	W-04B-01	W-04B-02	W-04B-03	W-07SI-01	W-07SI-02	W-07SI-03
Latitude		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-44	42-52-44	42-52-44
Longitude		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-02	73-09-02	73-09-02
Sample ID #:		S3714	0001-SA	S2494	S3713	0006-SA	S2392	S3794	0008-SA
Sample Date:		6/29/93	12/01/93	6/4/93	6/29/93	12/01/93	6/3/93	6/30/93	11/30/93
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	50 U	50 U	50 U	50 U	10 U	50 U	50 U	10 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	10	10 U	5 J	10 U	10 U	2.4 J	10 U	10 U	2.6 J
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	R	10 U	10 U	10 U	10 U
Total TICs		379 J	NA	19 J	890 J	NA	8 J	10 J	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses – Method 8270
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08SI-01	W-08SI-02	W-08SI-03	W-08B-01	W-08B-02	W-08B-03	W-07DI-03	FEQBLK
Latitude		42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-44	NA
Longitude		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	NA
Sample ID #:		S2244	S3795	0005-SA	S2495	S3916	0002-SA	0009-SA	S1865
Sample Date:		6/1/93	6/30/93	12/01/93	6/3/93	7/1/93	12/02/93	11/30/93	5/26/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	4.9 J	12 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Benzoic Acid	50	50 U	50 U	50 U	50 U	50 U	50 U	33 J	58 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Hexachlorobutadiene	9	10 U	10 U	9 U	10 U	10 U	9 U	9 U	12 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Hexachlorocyclopentadiene	9	10 U	10 U	5 U	10 U	10 U	5 U	5 U	12 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	58 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	58 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	58 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	58 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	58 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses – Method 8270
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:	W-08SI-01	W-08SI-02	W-08SI-03	W-08B-01	W-08B-02	W-08B-03	W-07DI-03	FEQBLK
Latitude	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-44	NA
Longitude	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	NA
Sample ID #:	S2244	S3795	0005-SA	S2495	S3916	0002-SA	0009-SA	S1865
Sample Date:	6/1/93	6/30/93	12/01/93	6/3/93	7/1/93	12/02/93	11/30/93	5/26/93
Fluorene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
4-Nitroaniline 50	50 U	50 U	50 U	50 U	50 U	50 U	10 U	58 U
4,6-Dinitro-2-methylphenol 50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	58 U
N-Nitrosodiphenylamine 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
4-Bromophenyl-phenylether 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Hexachlorobenzene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Pentachlorophenol 25	50 U	50 U	10 U	50 U	50 U	10 U	10 U	58 U
Phenanthrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Di-n-butylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Butylbenzylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
3,3'-Dichlorobenzidine 20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	24 U
Benzo(a)anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Bis(2-ethylhexyl)phthalate 10	10 U	10 U	6.9 J	10 U	10 U	6.2 J	4.8 J	12 U
Chrysene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Di-n-octylphthalate 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Benzo(b)fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Benzo(k)fluoranthene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Benzo(a)pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Indeno(1,2,3-cd)pyrene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Dibenz(a,h)anthracene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Benzo(g,h,i)perylene 10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U
Total TICs	1338 J	33 J	NA	95 J	69 J	NA	NA	1884 J

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses – Method 8270
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		FEQBLK	FEQBLK	FEQBLK	FEQBLK	EQBLK 3-1	EQBLK 3-3	EQBLK 4-3	EQBLK 2-5
Latitude		NA	NA	NA	NA	NA	NA	NA	NA
Longitude		NA	NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S2003	S2329	S3344	S3451	0001-SA	0001-SA	0007-SA	T9402
Sample Date:		5/26/93	6/2/9	6/23/93	6/24/93	11/18/93	11/23/93	11/23/93	7/19/94
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic Acid	50	50 U	50 U	53 U	50 U	50 U	50 U	50 U	50 U
Bis(2-chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	10 U	10 U	10 U	10 U	9 U	9 U	9 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	10 U	10 U	10 U	10 U	5 U	5 U	5 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	53 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	53 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	53 U	50 U	50 U	50 U	50 U	50 U
Acenphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	50 U	50 U	53 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	53 U	50 U	50 UJ	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 12B

Ground Water Semi-volatile Organic Analyses – Method 8270
Deep Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		FEQBLK		FEQBLK		FEQBLK		FEQBLK		EQBLK 3-1		EQBLK 3-3		EQBLK 4-3		EQBLK 2-5	
Latitude		NA		NA		NA		NA		NA		NA		NA		NA	
Longitude		NA		NA		NA		NA		NA		NA		NA		NA	
Sample ID #:		S2003		S2329		S3344		S3451		0001-SA		0001-SA		0007-SA		T9402	
Sample Date:		5/26/93		6/2/93		6/23/93		6/24/93		11/18/93		11/23/93		11/23/93		7/19/94	
Fluorene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	50	50	U	50	U	53	U	50	U	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	50	U	50	U	53	U	50	U	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	25	50	U	50	U	53	U	50	U	10	U	10	U	10	U	10	U
Phenanthrene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Anthracene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	10	U	10	U	10	U	10	U	10	U	10	U	1.5	J	10	U
Fluoranthene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Pyrene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Butylbenzylphthalate	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	20	U	20	U	21	U	20	U	20	U	20	U	20	U	20	U
Benzo(a)anthracene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bis(2-ethylhexyl)phthalate	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chrysene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Di-n-octylphthalate	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dibenz(a,h)anthracene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Total TICs		315	J	67	J	78	J	NA		NA		NA		NA		NA	

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 13

Ground Water PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-02-01	W-02-01 BLDUP	W-02-02	W-02-03	W-02-03 BLDUP-4-3	W-011S1-01	W-011S1-02	W-011S1-03
Latitude:		42-52-39	42-52-39	42-52-39	42-52-39	42-52-39	42-52-40	42-52-40	42-52-40
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-00	73-09-00	73-09-00
Sample ID #:		S2058	S2059	S3450	0002-SA	0011-SA	S2002	S3449	0006-SA
Sample Date:		5/27/93	5/27/93	6/24/93	11/29/93	11/29/93	5/26/93	6/24/93	11/30/93
Compound	Detection Limit								
alpha-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lindane		NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.013	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
4,4'-DDE	0.10	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U
Endrin	0.027	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U
Endosulfan II	0.056	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U
4,4'-DDD	0.10	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U
Endosulfan sulfate	0.10	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U
4,4'-DDT	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	0.20	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.20 U	0.20 U	0.2 U
Endrin aldehyde	0.10	0.10 U	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U	NA
Chlordane	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	1.0	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 U	1.0 U	5 U
PCB-1016	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1221	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1232	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1242	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1248	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1254	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1260	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
gamma-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
alpha-Chlordane	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U
gamma-Chlordane	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U
Endrin ketone	0.10	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
*Detection limit for total PCBs is 0.5.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 13

Ground Water PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-011S1-02 BLDUP		W-TP-12-05	W-TP-12-05 BLDUP-2-5		FEQBLK		FEQBLK		FEQBLK		EQBLK-4-3		EQBLK-2-5	
Latitude:		42-52-40		42-52-40	42-52-40		NA		NA		NA		NA		NA	
Longitude:		73-09-00		73-09-01	73-09-01		NA		NA		NA		NA		NA	
Sample ID #:		S3447		T9401	T9403		S1865		S2329		S3344		0007-SA		T9402	
Sample Date:		6/24/93		7/06/94	7/06/94		5/24/93		6/2/93		6/23/93		11/23/93		7/06/94	
Compound	Detection Limit															
alpha-BHC	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
beta-BHC	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
delta-BHC	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Lindane		NA		0.048	U	0.057	U	NA		NA		NA		NA		0.052	U
Heptachlor	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Aldrin	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Heptachlor epoxide	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Endosulfan I	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Dieldrin	0.013	0.013	U	0.012	U	0.015	U	0.013	U	0.013	U	0.013	U	0.013	U	0.014	U
4,4'-DDE	0.10	0.10	U	0.096	U	0.11	U	0.10	U	0.10	U	0.10	U	0.1	U	0.11	U
Endrin	0.027	0.027	U	0.026	UJ	0.085	J	0.027	U	0.027	U	0.027	U	0.027	U	0.028	U
Endosulfan II	0.056	0.056	U	0.054	U	0.064	U	0.056	U	0.056	U	0.056	U	0.056	U	0.058	U
4,4'-DDD	0.10	0.10	U	0.096	U	0.11	U	0.10	U	0.10	U	0.10	U	0.1	U	0.11	U
Endosulfan sulfate	0.10	0.10	U	0.096	U	0.11	U	0.10	U	0.10	U	0.10	U	0.1	U	0.11	U
4,4'-DDT	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Methoxychlor	0.20	0.20	U	0.19	U	0.23	U	0.20	U	0.20	U	0.20	U	0.2	U	0.21	U
Endrin aldehyde	0.10	0.10	U	R	U	0.11	U	0.10	U	0.10	U	0.10	U	NA		0.1	U
Chlordane	0.05	0.05	U	0.048	U	0.057	U	0.05	U	0.05	U	0.05	U	0.05	U	0.052	U
Toxaphene	1.0	1.0	U	0.96	U	1.1	U	1.0	U	1.0	U	1.0	U	5	U	1.1	U
PCB-1016	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
PCB-1221	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
PCB-1232	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
PCB-1242	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
PCB-1248	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
PCB-1254	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
PCB-1260	*	0.5	U	0.48	U	0.57	U	0.5	U	0.5	U	0.5	U	0.5	U	0.52	U
gamma-BHC	0.05	0.05	U	NA		NA		0.05	U	0.05	U	0.05	U	0.05	U	NA	
alpha-Chlordane	NA	NA		NA		NA		NA		NA		NA		0.05	U	NA	
gamma-Chlordane	NA	NA		NA		NA		NA		NA		NA		0.05	U	NA	
Endrin ketone	0.10	0.10	U	NA		NA		0.10	U	0.10	U	0.10	U	0.1	U	NA	

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
*Detection limit for total PCBs is 0.5.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01S1-01	W-01S1-01-F	W-01S1-02	W-01S1-02-F	W-01S1-03	W-01S1-03-F	W-01S1-04
Latitude:		42-52-44	42-52-44	42-52-44	42-52-44	42-52-44	42-52-44	42-52-44
Longitude:		73-08-58	73-08-58	73-08-58	73-08-58	73-08-58	73-08-58	73-08-58
Sample ID #:		S1913	S1920	S3254	S3261	0001-SA	0001-SA	0004-SA
Sample Date:		5/25/93	5/25/93	6/22/93	6/22/93	11/22/93	11/22/93	2/24/94
Compound	CRDL Detection Limit							
Aluminum	200	55100 J	44.5 U	9710 J	33.8 J	42600	100 U	16800
Antimony	60	60.0 UJ	22 U	24.7 J	21.5 U	60 U	60 U	60 UJ
Arsenic	10	R	4 U	20.0 U	4.0 U	3.5 J	5 U	1.5 J
Barium	200	457 J	9.7 J	212	9.3 J	360	15	220
Beryllium	5	3.3 J	0.10 U	2.7 J	0.10 U	3.4	2 U	1.2 J
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	7.7	0.5 U	0.52
Calcium	5000	85100 J	26400	71500	26400	89800	31100 J	70200
Chromium	10	97.0 J	3.0 U	15.7 U	3.0 U	50	6.2 J	17
Cobalt	50	59.9 J	3.0 U	24.6 J	3.0 U	53	4.9 J	28
Copper	5	79.8 J	3.6 J	16.6 U	3.0 U	71	4.5 J	28
Iron	100	92900 J	3.0 U	13700 J	3.0 U	73200	83 J	25800
Lead	3	48.2 J	1.0 U	18.2 J	1.0 U	37	3 U	20
Magnesium	5000	57200 J	11400	37800	11400	58000	12200	40300
Manganese	15	2640 J	4.4 U	1170 J	1.4 J	2600	7 J	1300
Mercury	0.2	0.20 U	0.20 U	0.21	0.20 U	0.2 U	0.2 U	R
Nickel	40	82.8 J	8.0 U	9.9 J	8.0 U	60	40 U	19 J
Potassium	5000	9010 J	1310 U	1520 J	675 J	8300	1200 J	3600 J
Selenium	5	R	3.0 UJ	3.0 UJ	3.0 UJ	50 UJ	5 U	R
Silver	10	4.0 J	4 U	4.0 UJ	4.0 U	3.3 J	10 U	10 U
Sodium	5000	3620 U	1280 J	3040 U	1170 J	1000 J	1000 J	5000 U
Thallium	10	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	5 U	5 U	5 UJ
Vanadium	50	85.0 J	8.5 U	18.3 J	5.0 U	60	2 J	21
Zinc	20	232 J	2.0 U	65.7	2.0 U	190	22	72
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	6 UJ	NA	2 U	NA	2 U
Hardness (mg/l)	1	450 J	NA	330	NA	463	128	341
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01S1-04-F	SBW-10-01	SBW-10-01 BLDUP#1-1	SBW-10-01-F	SBW-10-01-F BLDUP#1-1-F	SBW-10-02	SBW-10-02-F
Latitude:		42-52-44	42-52-45	42-52-45	42-52-45	42-52-45	42-52-45	42-52-45
Longitude:		73-08-58	73-08-59	73-08-59	73-08-59	73-08-59	73-08-59	73-08-59
Sample ID #:		0004-SA	S1912	S1914	S1919	S1921	S3255	S3262
Sample Date:		2/24/94	5/25/93	5/25/93	5/25/93	5/25/93	6/22/93	6/22/92
Compound	CRDL Detection Limit							
Aluminum	200	100 U	295000 J	34900 J	54.6 U	52.7 U	20900 J	45.4
Antimony	60	60 U	90.0 UJ	54.7 UJ	26.9 U	26.9 U	28.9 J	27.2
Arsenic	10	5 U	R	R	4.0 UJ	4.0 U	4.0 U	4.0
Barium	200	13	2350 J	293 J	12.1 J	11.3 J	222	8.1
Beryllium	5	2 U	16.6 J	3.4 J	0.10 U	0.10 U	2.7 J	0.10
Cadmium	3	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0
Calcium	5000	28300	491000 J	85100 J	34400	34400	73500	31800
Chromium	10	10 U	290 J	84.6 J	3.0 U	3.0 U	30.7	3.0
Cobalt	50	10 U	277 J	33.9 J	3.0 U	3.0 U	24.5 J	3.0
Copper	5	6.8 U	423 J	51.1 J	3.0 U	3.0 U	32.1 U	3.0
Iron	100	100 U	613000 J	66800 J	3.0 U	3.0 U	38400 J	3.0
Lead	3	3 U	163 J	25.9 J	1.0 J	1.0 U	35.9	1.0
Magnesium	5000	12400	316000 J	52500 J	13800	13800	42300	13300
Manganese	15	10 U	14600 J	1730 J	1.3 U	1.7 U	1260 J	1.2
Mercury	0.2	0.2 U	0.22	0.20 U	0.20 U	0.20 U	0.20 U	0.20
Nickel	40	40 U	371 J	62.8 J	8.0 U	8.0 U	24.2 J	8.0
Potassium	5000	760 J	38200 J	6090 UJ	1650 U	1250 U	3610 J	1220
Selenium	5	5 U	R	R	3.0 UJ	3.0 UJ	3.0 UJ	3.0
ilver	10	10 U	12.3 J	4.0 J	4.6 U	4 U	4.0 UJ	4.0
Sodium	5000	5000 U	4030 UJ	3070 U	1130 J	1220 J	3380 U	1290
Thallium	10	5 U	1.0 UJ	1.1 J	1.0 UJ	1.0 UJ	10.0 UJ	1.0
Vanadium	50	10 U	382 J	52.7 J	10.6 U	9.8 U	30.0 J	5.2
Zinc	20	10 U	1380 J	155 J	2.0 U	2.0 U	95.0	2.0
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	122	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	20 U	20 U	NA	NA	20 U	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		SBW-10-03	SBW-10-03-F	SBW-21-01	SBW-21-01-F	SBW-21-02	SBW-21-02-F	SBW-21-03
Latitude:		42-52-45	42-52-45	42-52-42	42-52-42	42-52-42	42-52-42	42-52-42
Longitude:		73-08-59	73-08-59	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		0002-SA	0002-SA	S2001	S2006	S3341	S3347	0004-SA
Sample Date:		11/30/93	11/30/93	5/26/93	5/26/93	6/23/93	6/23/93	11/22/93
Compound	CRDL Detection Limit							
Aluminum	200	J 13000	350	93200 J	53 U	10500 J	42.4 J	20200
Antimony	60	U 60 U	60 U	38.3 J	22.7 J	18.0 U	31.1 U	60 U
Arsenic	10	U 1.4 J	5 U	4.0 UJ	4.0 U	4.0 U	4.0 U	3.2 J
Barium	200	J 380	200	669 J	124 J	163 J	94.7 J	270
Beryllium	5	U 2.3	2 U	6.8 J	0.10 U	0.83 J	0.10 U	2.1
Cadmium	3	U 0.4 J	0.5 UJ	2.0 U	2.0 U	2.0 U	2.0 U	0.43 J
Calcium	5000	220000	44800	77500 J	83400	61500	68000	71300
Chromium	10	U 10 J	10 U	178 J	3.0 U	54.2	3.0 U	85
Cobalt	50	U 31	10 U	107 J	3.0 U	17.5 J	5.6 J	28
Copper	5	U 34 U	5 U	153 J	3.0 U	18.8 U	3.0 U	44
Iron	100	U 15300	300	156000 J	529	20200 J	1810	40600
Lead	3	U 42	1.4 U	126 UJ	1.0 U	21.5 J	1.0 U	22
Magnesium	5000	125000	18000	56100 J	25000	24000	23000	30400
Manganese	15	J 2700	7.9 J	3360 J	1270	1430 J	1320	1600
Mercury	0.2	U 0.37	0.2 U	0.21	0.20 U	0.20 U	0.20 U	0.2 U
Nickel	40	U 23 J	40 U	166 J	8.0 U	30.9 J	8.0 U	55
Potassium	5000	J 3000 J	920 J	17300	13000	7870	8050	12900
Selenium	5	UJ 10 U	5 UJ	R	3.9 J	3.0 UJ	3.0 UJ	50 UJ
Silver	10	U 10 U	10 U	4.0 U	5.3 U	4.0 UJ	4.0 U	10 U
Sodium	5000	J 5000 U	5000 U	8360 J	9800	7750 U	6810	7900
Thallium	10	U 5 UJ	5 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	5 UJ
Vanadium	50	J 17	10 U	134 J	12.4 U	20.9 J	7.6 J	38
Zinc	20	U 79 U	8.6 J	546 J	6 U	66.0	5.8 J	150
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	20 U	NA	20 U	NA	20 U	NA	20 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		SBW-21-03-F		SBW-21-04		SBW-21-04-F		W-23T-01		W-23T-01-F		W-23T-02		W-23T-02-F	
Latitude:		42-52-42		42-52-42		42-52-42		42-52-38		42-52-38		42-52-38		42-52-38	
Longitude:		73-09-00		73-09-00		73-09-00		73-08-57		73-08-57		73-08-57		73-08-57	
Sample ID #:		0004-SA		0001-SA		0001-SA		S1863		S1867		S3252		S3259	
Sample Date:		11/22/93		2/23/94		2/23/94		5/24/93		5/24/93		6/22/93		6/22/93	
Compound	CRDL Detection Limit														
Aluminum	200	100	U	68700		100	U	149000	J	70.8	U	20800	J	109	J
Antimony	60	60	U	60	U	60	U	108	J	29	U	28.9	J	19.3	U
Arsenic	10	2.2	J	3.9	J	2.3	J	R		4.0	U	4.0	U	4.0	U
Barium	200	130		1100		140		974	J	2.4	U	149	J	2.4	J
Beryllium	5	2	U	6		2	U	10	J	0.10	U	2.7	J	0.10	U
Cadmium	3	0.5	U	1.4		0.5	U	2.0	U	2.0	U	2.0	U	2.0	U
Calcium	5000	70700	J	70700		63300		189000	J	18000		28100		17100	
Chromium	10	6.2	J	170		10	U	179	J	3.0	U	29.6		4.1	J
Cobalt	50	5.6	J	110		29		152	J	3.0	U	21.8	J	3.0	U
Copper	5	5	U	140	J	5	U	221	J	8.4		29.8	U	3.0	U
Iron	100	480		118000		880		286000	J	9.2	J	38400	J	46.2	J
Lead	3	3	U	120		3	U	106	J	1.0	U	18.5		11.2	
Magnesium	5000	22700		52400		23600		136000	J	7960		18100		7870	
Manganese	15	1200		3000		1600		8130	J	18.3		1080	J	4.2	J
Mercury	0.2	0.2		0.23		0.2	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	40	40	U	130		9.9	J	212	J	8.0	U	30.9	J	8.0	U
Potassium	5000	9400		16500		6400		16800	J	1850	U	3210	J	1520	J
Selenium	5	5	UJ	50	UJ	5	U	R		3.0	UJ	15.0	UJ	3.0	UJ
ilver	10	3.6	J	10	U	10	U	9.2	J	4.3	U	4.0	UJ	4.0	U
odium	5000	9000	J	4900	U	6300		3610	UJ	1420	J	2980	U	1160	J
Thallium	10	5	UJ	1.2	J	5	UJ	1	UJ	1.0	U	1.0	UJ	1.0	U
Vanadium	50	10	U	130		10	U	219	J	8.2	U	24.7	J	6.5	J
Zinc	20	11	J	440		11	U	612	J	2.0	U	85.4		2.6	J
Cyanide	5	NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA	

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
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NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-23T-03	W-23T-03-F	W-24T-01	W-24T-01-F	W-24T-02	W-24T-02-F	W-24T-03
Latitude:		42-52-38	42-52-38	42-52-35	42-52-35	42-52-35	42-52-35	42-52-35
Longitude:		73-08-57	73-08-57	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		0008-SA	0008-SA	S1864	S1868	S3253	S3260	0009-SA
Sample Date:		11/23/93	11/23/93	5/24/93	5/24/93	6/22/93	6/22/93	11/23/93
Compound	CRDL Detection Limit							
Aluminum	200	69400	100 U	88500 J	46 U	6780 J	42.9 J	7300
Antimony	60	60 U	60 U	79.4 UJ	33.8 U	20.6 J	24.7 U	60 U
Arsenic	10	12	5 U	R	4.0 U	4.0 U	4.0 U	2.1 J
Barium	200	570	7.1 J	532 J	7.2 J	54.2 J	4.8 J	68
Beryllium	5	3.6	2 U	6.5 J	0.10 U	0.10 U	0.10 U	2 U
Cadmium	3	1 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	0.12 U
Calcium	5000	181000	22400	241000 J	22800	33500	22500	51300
Chromium	10	73 J	4.8 U	139 J	3.0 U	23.8	3.0 U	14
Cobalt	50	75	10 U	107 J	3.0 U	11.2 J	3.0 U	12
Copper	5	98	5 U	124 J	3.0 U	12.8 U	3.0 U	18 U
Iron	100	131000	45 U	161000 J	3.0 U	11600 J	5.3 J	14300
Lead	3	65	3 U	52.3 J	1.0 U	5.2 U	1.0 U	7.4 U
Magnesium	5000	110000	8800	125000 J	10600	16100	10700	24300
Manganese	15	5400 J	7.2 U	4530 J	288	600 J	252	650
Mercury	0.2	0.36	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U
Nickel	40	98	40 U	137 J	8.0 U	10.4 J	8.0 U	15 J
Potassium	5000	9200	910 J	10200 J	1620 U	1610 J	1080 J	3400 J
Selenium	5	10 UJ	5 UJ	R	3.0 UJ	3.0 U	3.0 U	5 UJ
Silver	10	3.3 U	10 U	5.7 J	4 U	4.0 U	4.0 U	10 U
Sodium	5000	5000 U	1200 U	2900 UJ	1270 J	3240 U	1240 J	1900 J
Thallium	10	5 U	5 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	5 U
Vanadium	50	91	10 U	125 J	8.3 U	8.4 J	5.0 U	9 J
Zinc	20	330 J	12 U	372 J	2.0 U	33.1	2.0 U	68 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
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R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-24T-03 BLDUP#3-3		W-24T-03-F		W-24T-03-F BLDUP#3-3-F		W-07S1-01		W-07S1-01-F		W-07S1-02		W-07S1-02-F		W-07S1-03
Latitude:		42-52-35		42-52-35		42-52-35		42-52-44		42-52-44		42-52-44		42-52-44		42-52-44
Longitude:		73-09-00		73-09-00		73-09-00		73-09-02		73-09-02		73-09-02		73-09-02		73-09-02
Sample ID #:		0010-SA		0009-SA		0010-SA		S2129		S2131		S3448		S3462		0003-SA
Sample Date:		11/23/93		11/23/93		11/23/93		5/28/93		5/28/93		6/24/93		6/24/93		11/30/93
Compound	CRDL Detection Limit															
Aluminum	200	8200		100	U	100	U	37500	J	40	U	12500	J	35.6	J	22100
Antimony	60	60	U	60	U	21	J	29.1	J	18.0	U	39.6	J	18.0	U	60
Arsenic	10	2.1	J	5	U	5	U	4.0	UJ	4.0	U	4.0	U	4.0	U	4.6
Barium	200	65		7.8	J	7.5	J	816		42.9	J	313		45.2	J	1400
Beryllium	5	2	U	2	U	2	U	3.4	J	0.10	U	2.8	J	0.10	U	3.7
Cadmium	3	0.26	U	5	U	0.5	U	2.0	U	2.0	U	2.0	U	2.0	U	2
Calcium	5000	37200		23100	U	23300		113000	J	61900		80800		60700		473000
Chromium	10	16		6.7	U	5.3	U	38.3	J	3.0	U	17.9		3.0	U	25
Cobalt	50	9.2	J	10	U	4.2	J	75.7		3.0	U	34.6	J	3.0	U	200
Copper	5	16	U	5	U	5	U	69.0	UJ	3.0	U	28.7		3.0	U	97
Iron	100	13000		52	U	52	U	60000	J	3.0	U	18900	J	26.4	J	14500
Lead	3	13	U	3	U	3	U	50.8	J	1.0	U	65.5		1.0	U	89
Magnesium	5000	17800		9900		10000		59000	J	23500		37100		23800		256000
Manganese	15	520		140		140		4500	J	2030		3350	J	1360		10500
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.20		0.20	U	0.20	U	0.20	U	1.3
Nickel	40	13	J	40	U	40	U	56.7	J	8.0	U	22.2	J	8.0	U	41
Potassium	5000	1100	J	1300	J	1300	J	6110		2430	U	3160	J	940	J	7000
Selenium	5	5	UJ	5	UJ	10	U	R		3.0	U	15.0	U	3.0	U	25
Silver	10	6.5	U	3	J	3.8	J	4.0	U	4	U	4.0	U	4.0	U	10
Sodium	5000	5000	U	1400	U	1100	U	6240	U	4210	J	6200	U	4570	J	7600
Thallium	10	5	U	5	U	5	U	1.0	U	1.0	U	1.0	U	1.0	U	5
Vanadium	50	7.3	J	10	U	10	U	59.9		8.9	U	27.8	J	7.3	J	27
Zinc	20	50	U	23	U	12	U	173	J	2.0	U	72.0	U	2.0	U	120
Cyanide	5	NA		NA		NA		NA		NA		NA		NA		NA
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA		NA		NA
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA		NA		NA
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA		NA

NOTES:
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R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-07S1-03-F	W-07S1-04	W-07S1-04-F	W-08S1-01	W-08S1-01-F	W-08S1-02	W-08S1-02-F
Latitude:		42-52-44	42-52-44	42-52-44	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0003-SA	0002-SA	0002-SA	S1915	S1922	S3340	S3346
Sample Date:		11/30/93	2/24/94	2/24/94	5/25/93	5/25/93	6/22/93	6/22/93
Compound	CRDL Detection Limit							
Aluminum	200	100 U	31500	100 U	154000 J	118 U	17000 J	110 J
Antimony	60 U	15 J	60 UJ	16 J	132 J	28 U	34.5 J	30.1 U
Arsenic	10 J	5 U	4.5 J	5 U	R	4.0 U	4.0 U	4.0 U
Barium	200	63	800	47	1030 J	2.4 U	259	17.0 J
Beryllium	5	2 U	3.2	2 U	9.4 J	0.10 U	2.7 J	0.10 U
Cadmium	3 UJ	0.5 UJ	1	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Calcium	5000	90300	134000	34300	512000 J	12200	91200	20500
Chromium	10 J	13 U	48	10 U	168 J	3.0 U	23.2	3.0 U
Cobalt	50	10 U	89	10 U	145 J	3.0 U	19.8 J	3.0 U
Copper	5 J	5.6 U	70	7.8 U	218 J	3.0 U	26.0 U	3.0 U
Iron	100	100 U	55900	33 U	281000 J	46.4 J	31600 J	61.0 J
Lead	3	3 U	52	3 UJ	78.5 J	1.0 U	15.0	1.0 U
Magnesium	5000	33800	69400	11300	253000 J	2760 J	44400	4910 J
Manganese	15	260	6200	1000	7480 J	4.2 U	1220 J	55.2
Mercury	0.2	0.2 U	0.89 J	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	40	8.4 U	42	40 U	228 J	8.0 U	28.0 J	8.0 U
Potassium	5000	5000 U	9300	3800 J	19400 J	1620 U	2760 J	1330 J
Selenium	5 U	5 UJ	R	5 U	R	3.0 U	3.0 UJ	3.0 UJ
ilver	10 U	9.6 J	10 U	10 U	6.8 U	4 U	4.0 UJ	4.0 U
Sodium	5000	3600 J	49200	56100	4500 UJ	2360 J	4230 U	2090 J
Thallium	10 UJ	5 UJ	5 UJ	5 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Vanadium	50	10 U	46	10 U	204 J	6.3 U	25.0 J	5.0 U
Zinc	20 U	20 U	150	16 U	721 J	2.0 U	93.6	2.0 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
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Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08S1-03	W-08S1-03-F	W-08S1-04	W-08S1-04-F	W-09S1-01	W-09S1-01-F	W-09S1-02
Latitude:		42-52-40	42-52-40	42-52-40	42-52-40	42-52-37	42-52-37	42-52-37
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-03	73-09-03	73-09-03
Sample ID #:		0003-SA	0003-SA	0002-SA	0002-SA	S1916	S1923	S3256
Sample Date:		11/23/93	11/23/93	2/23/94	2/23/94	5/25/93	5/25/93	6/22/93
Compound	CRDL Detection Limit							
Aluminum	200	17600	100	54500	100 U	144000 J	53.2 U	12900 J
Antimony	60	60 U	60 U	60 U	60 U	122 UJ	26.6 U	36.1 J
Arsenic	10	3.4 J	5 U	2.2 J	5 U	4.6 J	4.0 U	4.0 U
Barium	200	160	23	560	16	1080 J	27.8 J	134 J
Beryllium	5	2	2 U	3	2 U	12.5 J	0.10 U	2.7 J
Cadmium	3	0.33 U	0.5 U	0.5 U	0.5 U	2.0 U	2.0 U	2.0 U
Calcium	5000	98900	37800	501000	36300	236000 J	22300	31200
Chromium	10	24	4.8 U	48	10 U	186 J	3.0 U	22.4
Cobalt	50	18	10 U	61	10 U	244 J	52.2	83.2
Copper	5	32 U	5 U	92 J	9.6 J	255 J	5.2	24.7 U
Iron	100	33900	230 U	100000	100 U	303000 J	4620	35700 J
Lead	3	16 U	3 U	48	3 U	116 J	1.0 U	11.8
Magnesium	5000	43000	9500	264000	10100	153000 J	6350	14100
Manganese	15	1100	25	4500	32	13000 J	7860	9550 J
Mercury	0.2	0.2 U	0.2 U	0.28	0.2 U	0.27	0.20 U	0.20 U
Nickel	40	33 J	40 U	89	40 U	240 J	15.0 J	23.9 J
Potassium	5000	2800 J	1800 J	9900	1500 J	17900 J	2070 U	2740 J
Selenium	5	10 UJ	10 U	50 UJ	5 U	R	3.0 U	3.0 UJ
ilver	10	7.5 U	10 U	12	10 U	12.1 UJ	4 U	4.0 UJ
odium	5000	5000 U	3600 J	5000 U	2100 J	4390 UJ	2180 J	3460 U
Thallium	10	5 UJ	5 UJ	5 UJ	5 UJ	1.4 J	1.0 U	1.0 UJ
Vanadium	50	20	10 U	67	10 U	270 J	8.5 U	24.7 J
Zinc	20	140 U	41 U	250	6.7 U	703 J	6.3 U	70.6
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
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[1] Subcontracted to Adirondack Environmental Services.

Table 14A

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-09S1-02-F		W-09S1-03		W-09S1-03-F		W-09S1-04		W-09S1-04-F	
Latitude:		42-52-37		42-52-37		42-52-37		42-52-37		42-52-37	
Longitude:		73-09-03		73-09-03		73-09-03		73-09-03		73-09-03	
Sample ID #:		S3262		0005-SA		0005-SA		0003-SA		0003-SA	
Sample Date:		6/22/93		11/23/93		11/23/93		2/24/94		2/24/94	
Compound	CRDL Detection Limit										
Aluminum	200	26.8	J	34200		100	U	21300		590	
Antimony	60	19.1	U	60	U	60	U	60	UJ	14	J
Arsenic	10	4.0	U	12		3.3	J	4.2	J	1.2	J
Barium	200	32.0	J	330		35		240		44	
Beryllium	5	0.10	U	2.4		2	U	1.8	J	2	U
Cadmium	3	2.0	U	1.2	U	0.5	U	0.71		0.5	U
Calcium	5000	20400		83200		13900		68800		13600	
Chromium	10	3.0	U	50		4.5	U	24		10	U
Cobalt	50	58.8		85		320		60		25	
Copper	5	3.0	U	66	U	5	U	44		5	U
Iron	100	7010		88100		4700		65800		21000	
Lead	3	1.0	U	39		3	U	33		3	U
Magnesium	5000	5450		46000		2800		37700		3700	
Manganese	15	8680		5200		3700		4300		3900	
Mercury	0.2	0.20	U	0.22		0.2	U	R		0.2	U
Nickel	40	8.8	J	58		7.6	J	35	J	40	U
Potassium	5000	602	J	4500	J	940	J	3800	J	580	J
Selenium	5	3.0	U	10	UJ	5	UJ	R		5	UJ
Silver	10	4.0	U	6	U	10	U	10	U	5.2	J
Sodium	5000	1320	J	2200	J	3600	J	3000	U	3200	J
Thallium	10	1.0	U	5	UJ	5	UJ	5	UJ	5	U
Vanadium	50	5.0	U	60		10	U	39		10	U
Zinc	20	2.2	J	210		24	U	100		14	U
Cyanide	5	NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA	

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
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[1] Subcontracted to Adirondack Environmental Services.

Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-25S1-01	W-25S1-01-F	W-25S1-02	W-25S1-02-F	W-25S1-03	W-25S1-03-F	W-25S1-04
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		S1917	S1924	S3257	S3264	0004-SA	0004-SA	0003-SA
Sample Date:		5/25/93	5/25/93	6/22/93	6/22/93	11/23/93	11/23/93	2/23/94
Compound	CRDL Detection Limit							
Aluminum	200	46000 J	53.2 U	7460 J	122 J	17200	100 U	14700
Antimony	60	66.0 UJ	20.6 U	23.5 J	35.8 U	60 U	60 U	60 U
Arsenic	10	R	4.0 U	4.0 U	4.0 U	9.3	8.4	4.1 J
Barium	200	376 J	35.9 J	103 J	47.8 J	230	86	210
Beryllium	5	3.3 J	0.10 U	0.10 U	0.10 U	2 U	2 U	1.6 J
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	0.75 U	0.5 U	0.68
Calcium	5000	131000 J	17000	27500	17300	86800	32100	64200
Chromium	10	74.1 J	3.0 U	19.7 U	3.9 J	32	7.4 U	26
Cobalt	50	54.7 J	14.4 J	20.8 J	13.6 J	34	22	230
Copper	5	65.9 J	3.4 J	12.3 U	3.0 U	29 U	6.9	33
Iron	100	89600 J	1900	16300 J	5430	36100	5700	51200
Lead	3	37.3 J	1.0 U	10.2 U	1.0 U	29	3 U	19
Magnesium	5000	86500 J	6260	14900	7410	43100	6300	39300
Manganese	15	4030 J	2760	3640 J	3840	22500	22600	80000
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2
Nickel	40	90.0 J	20.1 J	17.2 J	8.0 U	39 J	18 J	46
Potassium	5000	6740 J	981 U	1170 J	748 J	3200 J	940 J	3400 J
Selenium	5	R	3.0 UJ	3.0 UJ	3.0 UJ	10 UJ	5 UJ	5 UJ
Silver	10	5.5 U	4 U	4.0 UJ	4.0 U	3.9 U	3 J	10 U
Sodium	5000	4220 U	2060 J	3480 U	1710 J	8100	5800	9200 U
Thallium	10	1.4 J	1.0 UJ	1.0 UJ	1.0 UJ	5 UJ	5 UJ	5 U
Vanadium	50	73.4 J	7.3 U	12.4 J	5.0 U	25	10 U	15
Zinc	20	239 J	4.4 U	50.0	5.1 J	120 U	27 U	110
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
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R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-25S1-04-F		W-27S1-05		W-27S1-05-F		W-02-01		W-02-01 LDUP#2-1		W-02-01-F		W-02-02	
Latitude:		42-52-38		42-52-42		42-52-42		42-52-39		42-52-39		42-52-39		42-52-39	
Longitude:		73-09-02		73-09-02		73-09-02		73-09-01		73-09-01		73-09-01		73-09-01	
Sample ID #:		0003-SA		T9397		T9410		S2058		S2059		S2069		S3450	
Sample Date:		2/23/94		7/06/94		7/06/94		5/27/93		5/27/93		5/27/93		6/24/93	
Compound	CRDL Detection Limit														
Aluminum	200	40	J	29900		20	U	12000	J	455	J	39.1	U	451	J
Antimony	60	60	U	3.2	UJ	8.9	U	31.0	J	18.0	U	25.9	J	40.9	J
Arsenic	10	2.8	J	2.4	J	1	U	4.0	U	4.0	U	4.0	U	4.0	UJ
Barium	200	71		314	J	40.1	J	173	J	81.4	J	78.3	J	71.6	J
Beryllium	5	2	U	1.5	J	0.1	U	2.7	J	0.10	U	0.10	U	0.10	U
Cadmium	3	0.5	U	1	UJ	1	U	2.0	U	2.0	U	2.0	U	2.0	U
Calcium	5000	11700		111000		57600		135000	J	73600	J	82300		66900	
Chromium	10	10	U	48.5	J	2	U	345	J	38.3	J	3.0	U	9.7	J
Cobalt	50	220		29.2	J	2	U	23.9	J	4.0	J	3.0	U	3.0	U
Copper	5	5	U	47.3	J	1	U	30.5	U	12.9	U	3.0	U	3.0	U
Iron	100	30600		56800		19.9	U	29200	J	4680	J	1390		2930	J
Lead	3	3	U	21.3	J	1.8	J	47.7	J	4.2	U	1.0	U	3.6	J
Magnesium	5000	7200		46100		15800		58200	J	28200	J	31000		26100	
Manganese	15	85100		1740	J	37.2		1550	J	786	J	865		746	J
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	40	8.3	J	52.2	J	1.5	J	469	J	66.1	J	35.6	J	45.3	J
Potassium	5000	970	J	8590	J	1400	J	3390	J	1570	J	3840	U	1580	J
Selenium	5	5	U	R		1	U	R		R		3.0	UJ	3.0	UJ
Silver	10	10	U	1	U	1	U	4	U	4.0	U	4.0	U	4.0	U
Sodium	5000	9300		4450	J	3320	J	9680		8970		8210		8410	
Thallium	10	5	UJ	1	UJ	1	U	1.0	U	1.0	U	1.0	UJ	1.0	UJ
Vanadium	50	10	U	41.3	J	1	U	24.7	U	5.2	U	9.6	U	8.9	J
Zinc	20	41	U	151	J	10.1	J	74.4	J	20.5	J	2.0	U	20	U
Cyanide	5	NA		NA		NA		5.0	U	5.0	U	NA		5.0	U
BOD5 (mg/l)	1	NA		NA	UJ	NA		NA		6	U	NA		3.1	
Hardness (mg/l)	1	NA		NA	J	NA	J	NA		270		NA		346	
Hex Chromium [1]	10	NA		NA	U	NA		NA		NA		NA		20	U

NOTES:
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[1] Subcontracted to Adirondack Environmental Services.

Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-02-02-F		W-02-03		W-02-03 BLDUP#4-3		W-02-03-F BLDUP#4-3		W-02-03-F		W-03-01		W-03-01-F		W-03-02	
Latitude:		42-52-39		42-52-39		42-52-39		42-52-39		42-52-39		42-52-38		42-52-38		42-52-38	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-00		73-09-00		73-09-00	
Sample ID #:		S3464		0001-SA		0004-SA		0004-SA		0001-SA		S2056		S2067		S3444	
Sample Date:		6/24/93		11/30/93		11/30/93		11/30/93		11/30/93		5/26/93		5/26/93		6/24/93	
Compound	CRDL Detection Limit																
Aluminum	200	17.6	J	790		820		100	U	100	U	11500	J	22.2	U	12900	
Antimony	60	18.0	U	60	U	60	U	16	J	60	U	32.2	J	19.8	J	45.4	
Arsenic	10	4.0	U	5	U	3.2	J	2.6	J	2.5	J	4.0	U	4.0	U	4.0	
Barium	200	81.2	J	110		100		980		95		114	J	23.8	J	132	
Beryllium	5	0.10	U	2	U	2	U	2	U	2	U	2.7	J	0.10	U	0.84	
Cadmium	3	2.0	U	0.1	J	0.1	J	0.5	UJ	0.5	UJ	2.0	U	2.0	U	2.0	
Calcium	5000	77900		86500		83900		97100	U	93200		74800	J	31500		96600	
Chromium	10	3.0	U	10	UJ	18	J	10	U	10	U	56.3	J	3.0	U	139	
Cobalt	50	3.0	U	10	U	10	U	10	U	10	U	11.8	J	3.0	U	19.8	
Copper	5	3.0	U	8.8	U	7.8	U	4.6	U	5	U	21.1	U	3.0	U	26.4	
Iron	100	37.3	J	6100		5700		310		270		22400	J	3.0	U	28900	
Lead	3	1.0	U	64		72		3	U	3	U	14.0	U	1.0	U	13.2	
Magnesium	5000	30600		31500		32300		35300	U	33600	U	42900	J	20500		53500	
Manganese	15	830		790		720		900		870		1040	J	564		1280	
Mercury	0.2	0.20	U	0.2	U	0.2	U	0.2	U	0.2	U	0.20	U	0.20	U	0.25	
Nickel	40	38.9	J	67		68		42	U	39	U	65.1	J	9.7	J	107	
Potassium	5000	2070	J	5100		4100	J	630	J	5000	U	1960	J	1690	U	2050	
Selenium	5	3.0	U	5	UJ	5	UJ	10	J	10	UJ	R		3.0	U	3.0	
Silver	10	4.0	U	10	U	10	U	10		9.9	J	4.0	U	4.0	U	4.0	
Sodium	5000	8740		7400		8000		6500		4900	J	17300		16700		16000	
Thallium	10	1.0	U	5	UJ	5	UJ	5	UJ	5	UJ	1.0	U	1.0	U	1.0	
Vanadium	50	7.9	J	10	U	10	U	10	U	10	U	19.8	U	6.6	U	25.7	
Zinc	20	2.4	J	53	U	28	U	20	U	7.9	J	56.7	J	2.0	U	84.7	
Cyanide	5	NA		10	U	10	U	NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	3.3		NA		NA		6	UJ	NA		6	U	NA		4.8	
Hardness (mg/l)	1	342		388		371		360	J	NA		460		NA		2530	
Hex Chromium [1]	10	20	U	NA		NA		20	U	NA		20	U	NA		20	

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-03-02-F		W-03-03		W-03-03-F		W-03T-01		W-03T-01-F		W-03T-02		W-03T-02-F	
Latitude:		42-52-38		42-52-38		42-52-38		42-52-39		42-52-39		42-52-39		42-52-39	
Longitude:		73-09-00		73-09-00		73-09-00		73-09-00		73-09-00		73-09-00		73-09-00	
Sample ID #:		S3458		0005-SA		0005-SA		S2060		S2070		S3446		S3460	
Sample Date:		6/24/93		11/29/93		11/29/93		5/27/93		5/27/93		6/24/93		6/24/93	
Compound	CRDL Detection Limit														
Aluminum	200	J	12.0	U	54400		73	J	375000	J	608		143000	J	6910	
Antimony	60	J	18.0	U	60	U	21	J	116	J	18.0	U	127	J	18.0	U
Arsenic	10	UJ	4.0	U	7		2.2	J	4.0	UJ	4.0	U	4.0	UJ	4.0	U
Barium	200	J	30.2	J	470	J	43		2960	J	11.9	J	1430	J	50.2	J
Beryllium	5	J	0.10	U	2.9	J	2	U	20.0	J	0.10	U	9.7	J	0.10	U
Cadmium	3	U	2.0	U	1.1	J	0.5	U	2.0	U	2.0	U	2.0	U	2.0	U
Calcium	5000		31800		572000		35600		777000	J	30200		450000		30300	
Chromium	10		3.0	U	62		15	U	401	J	3.0	U	180	J	5.3	J
Cobalt	50	J	3.0	U	71		10	U	410	J	3.0	U	205	J	3.1	J
Copper	5		3.0	U	110	J	14	U	698	J	7.2		295	J	8.7	
Iron	100	J	441		125000		110		566000	J	299		243000	J	3700	
Lead	3		1.0	U	30		3	U	188	J	1.0	U	221		3.6	
Magnesium	5000		21900		269000		21400		373000	J	12400		203000		13400	
Manganese	15	J	599		5100		440		18000	J	481		9290	J	507	
Mercury	0.2		0.20	U	0.49		0.2	U	1.6		0.20	U	0.62		0.20	U
Nickel	40	J	19.6	J	330		30	J	1080	J	8.0	U	495	J	10.9	J
Potassium	5000	J	500	U	9300		5000	U	58100		2640	U	23900	J	2140	J
Selenium	5	UJ	3.0	U	R		5	U	R		3.0	U	15.0	UJ	15.0	UJ
Silver	10	U	4.0	U	4.1	J	11		7.3	J	4.0	U	4.6	J	4.0	U
Sodium	5000		18100		13800		14700		9680	J	7110		6340	U	3420	J
Thallium	10	U	1.0	U	5	U	5	U	1.0	UJ	1.0	U	1.2	J	1.0	U
Vanadium	50	J	5.0	U	78		10	U	474	J	6.5	U	206	J	7.8	J
Zinc	20	U	2.0	U	340	J	5	J	1540	J	5.5	U	702	J	16.0	J
Cyanide	5		NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1		NA		NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1		177		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	U	NA		20	U	NA		20	U	NA		20	U	NA	

NOTES:
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[1] Subcontracted to Adirondack Environmental Services.

Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-03T-03	W-03T-03-F	W-04S-01	W-04S-01-F	W-04S-02	W-04S-02-F	W-04S-03
Latitude:		42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		0006-SA	0006-SA	S2057	S2068	S3342	S3348	0003-SA
Sample Date:		11/29/93	11/29/93	5/26/93	5/26/93	6/23/93	6/23/93	11/29/93
Compound	CRDL Detection Limit							
Aluminum	200	3100	100 U	62200 J	207	8210 J	193 J	53500
Antimony	60	60 U	16 J	37.3 J	18.0 U	27.1 J	18.0 U	60 U
Arsenic	10	5 U	5 U	4.2 J	4.0 U	4.0 U	4.0 U	9.5
Barium	200	49	12	497	52.5 J	91.5 J	39.7 J	410
Beryllium	5	2 U	2 U	3.4 J	0.10 U	0.10 U	0.10 U	3
Cadmium	3	0.21 J	0.5 UJ	2.0 U	2.0 U	2.0 U	2.0 U	4
Calcium	5000	33400	28000	126000 J	41200	46800	42400	121000
Chromium	10	14	14 U	280 J	3.0 U	33.7	3.0 U	85
Cobalt	50	12	10 U	48.2 J	3.0 U	9.3 J	3.1 J	49
Copper	5	12	7.5 U	84.6 J	3.4 J	10.3 U	3.0 U	75
Iron	100	6700	30 J	125000 J	1140 J	18900 J	487	93000
Lead	3	4.2	3 U	241 J	1.0 U	27.1	1.0 U	250
Magnesium	5000	13600	11000	60800 J	14700	18100	15000	51400
Manganese	15	1100	15	2270 J	585	776 J	570	2000
Mercury	0.2	0.2 U	0.2 U	0.37	0.20 U	0.20 U	0.20 U	0.52
Nickel	40	20 J	14 J	1400 J	47.2	154	45.8	1400
Potassium	5000	2200 J	5000 U	12400	9660	8850	8850	9500
Selenium	5	R	5 UJ	R	3.0 UJ	3.0 UJ	3.0 UJ	R
Silver	10	3.5 J	9.7 J	4.0 U	4.0 U	4.0 UJ	4.0 U	3.2 J
Sodium	5000	2300 J	5000 U	22800	20400	22200	22400	22700
Thallium	10	5 U	5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5 YJ
Vanadium	50	4.7 J	10 U	63.0	8.6 U	8.0 J	5.0 U	53
Zinc	20	48	20 U	389 J	10.7 U	50.2	2.0 U	340
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	6 UJ	NA	3	NA	NA
Hardness (mg/l)	1	580 J	NA	190	NA	513	202	NA
Hex Chromium [1]	10	20 U	NA	20 U	NA	20 U	NA	20 U

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04S-03-F		W-04D-01		W-04D-01-F		W-04D-02		W-04D-02-F		W-04D-03		W-04D-03-F	
Latitude:		42-52-38		42-52-38		42-52-38		42-52-38		42-52-38		42-52-38		42-52-38	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01	
Sample ID #:		0003-SA		S2064		S2074		S3343		S3349		0006-SA		0006-SA	
Sample Date:		11/29/93		5/26/93		5/26/93		6/23/93		6/23/93		11/23/93		11/23/93	
Compound	CRDL Detection Limit														
Aluminum	200	260		11200	J	27.8	U	7280	J	39.7	J	24600		100	U
Antimony	60	15	J	19.0	J	18.0	U	30.3	J	21.6	J	60	U	60	U
Arsenic	10	3.7	J	4.0	UJ	4.0	U	4.0	U	4.0	U	4.8	J	5	U
Barium	200	53		118	J	19.1	J	78.5	J	19.4	J	260		24	
Beryllium	5	2	U	2.7	J	0.10	U	0.10	U	0.10	U	1		2	U
Cadmium	3	5	UJ	2.0	U	2.0	U	2.0	U	2.0	U	0.47	U	0.5	UJ
Calcium	5000	51500		123000	J	41100		61200		40200		285000		42100	
Chromium	10	8.2	U	16.4	J	3.0	U	19.2	U	3.0	U	23	J	5.7	U
Cobalt	50	10	U	10.3	J	3.0	U	8.3	J	3.0	U	26		10	U
Copper	5	5.2	U	14.6	UJ	3.0	U	10.1	U	3.0	U	36	U	5	U
Iron	100	1200		18300	J	3.0	U	11500	J	16.1	J	50600		51	U
Lead	3	3	U	10.3	UJ	1.0	U	6.5	U	1.0	U	21		3	U
Magnesium	5000	17800		57700	J	20200		30100		19500		118000		18300	
Manganese	15	690		1230	J	82.5		535	J	96.6		2800	J	65	
Mercury	0.2	0.2	U	0.20	U	0.20	U	0.20	U	0.20	U	0.2	U	0.2	U
Nickel	40	82		32.2	J	24.7	J	29.7	J	18.7	J	57		26	J
Potassium	5000	5100		1340	J	1400	U	1700	J	566	J	3100	J	1700	J
Selenium	5	5	UJ	R		3.0	UJ	3.0	UJ	3.0	U	10	UJ	5	UJ
Silver	10	8.8	J	4.0	U	4.0	U	4.0	UJ	4.0	U	6.3	U	3	J
Sodium	5000	25700		11200		10200		12900		11400		8500		10600	
Thallium	10	5	UJ	1.0	U	1.0	U	1.0	UJ	1.0	U	5	UJ	5	UJ
Vanadium	50	10	U	21.1	U	7.2	U	12.9	J	5.0	U	27		10	U
Zinc	20	7.6	J	44.5	J	2.0	U	33.6		3.2	J	130	U	16	U
Cyanide	5	NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		6	UJ	NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		570	J	NA	
Hex Chromium [1]	10	NA		20	U	NA		20	U	NA		20	U	NA	

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-05-01	W-05-01-F	W-05-02	W-05-02 BLDUP#2-2	W-05-02-F	W-05-03	W-05-03-F
Latitude:		42-52-39	42-52-39	42-52-39	42-52-39	42-52-39	42-52-39	42-52-39
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		S2061	S2071	S3443	S3452	S3457	0004-SA	0004-SA
Sample Date:		5/27/93	5/27/93	6/24/93	6/24/93	6/24/93	11/29/93	11/29/93
Compound	CRDL Detection Limit							
Aluminum	200	19300 J	38.3 U	2410 J	3740 J	40.1 J	34200	60 J
Antimony	60	32.5 J	18.1 J	18.0 U	18.0 U	18.0 U	60 U	60 U
Arsenic	10	4.0 UJ	4.0 U	4.0 UJ	4.0 UJ	4.0 U	3.9 J	1.3 J
Barium	200	194 J	6.8 J	30.2 J	45.2 J	10.9 J	300 J	12
Beryllium	5	2.6 J	0.10 U	0.10 UJ	0.10 UJ	0.10 U	2.5	2 U
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.83	0.22 J
Calcium	5000	128000 J	24600	36100	44300	28500	278000	30300
Chromium	10	23.5 J	3.0 U	15.0	13.6	3.0 U	43	18 U
Cobalt	50	21.7 J	3.0 U	3.6 J	4.4 J	3.0 U	48	10 U
Copper	5	34.6 UJ	3.0 U	8.8	9.2	3.0 U	59 J	7.2 U
Iron	100	34600 J	3.0 U	4860 J	7140 J	29.2 J	66400	150
Lead	3	16.8 UJ	1.0 U	4.1	7.6	1.0 U	27	2.2 J
Magnesium	5000	59800 J	11100	17300	21600	13100	143000	13500
Manganese	15	1360 J	1.7 U	212 J	366 J	11.3 J	3900	8.8 J
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31	0.2 U
Nickel	40	46.6 J	8.0 U	33.1 J	38.8 J	8.0 U	95	14 J
Potassium	5000	2780 J	1400 U	500 U	696 J	500 U	7900	5000 U
Selenium	5	R	3.0 U	3.0 UJ	3.0 UJ	3.0 U	R	2.9 J
ilver	10	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	3.1 J	5.3 J
Sodium	5000	4720 U	3170 J	5010 U	5200 U	4400 J	3500 J	2700 J
Thallium	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5 UJ	5 U
Vanadium	50	32.1 U	7.2 U	8.9 J	9.2 J	5.0 U	46	10 U
Zinc	20	84.5 J	2.0 U	31.4 U	32.9 U	2.0 U	170 J	5.1 J
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	NA	2 U	NA	NA	6 UJ
Hardness (mg/l)	1	160	NA	NA	1280	131	NA	520 J
Hex Chromium [1]	10	20 U	20 U	NA	20 U	NA	NA	20 U

NOTES:

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[1] Subcontracted to Adirondack Environmental Services.

Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-05-02-F BLDUP#2-2-F		W-06S-01		W-06S-01-F		W-06S-02		W-06S-02-F		W-06S-03		W-06S-03-F		W-06D-01
Latitude:		42-52-39		42-52-38		42-52-38		42-52-38		42-52-38		42-52-38		42-52-38		42-52-38
Longitude:		73-09-00		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01
Sample ID #:		S3466		S2062		S2072		S3445		S3459		0007-SA		0007-SA		S2065
Sample Date:		6/24/93		5/27/93		5/27/93		6/23/93		6/23/93		11/29/93		11/29/93		5/27/93
Compound	CRDL Detection Limit															
Aluminum	200	36	J	30600	J	60.4	U	8700	J	32.6	J	21400		100	U	59600
Antimony	60	18.0	U	32.9	J	18.0	U	28.4	J	18.0	U	60	U	32	J	71.7
Arsenic	10	4.0	U	4.6	J	4.0	U	5.1	J	4.0	U	5	U	5	U	4.0
Barium	200	10	J	269		7.2	J	87.9	J	7.5	J	260		7.5	J	512
Beryllium	5	0.10	U	3.4	J	0.10	U	0.10	UJ	0.10	U	2.5		2	U	6.0
Cadmium	3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.1		0.16	J	2.0
Calcium	5000	27900		106000	J	20500		32300		20200		119000		23100		332000
Chromium	10	3.0	U	91.6	J	3.0	U	28.6		3.0	U	48		10	U	83.2
Cobalt	50	3.0	U	44.2	J	3.0	U	13.4	J	3.0	U	50		10	U	86.5
Copper	5	3.0	U	69.3	UJ	3.0	U	15.0		3.0	U	54		4.6	U	93.7
Iron	100	25.4	J	72800	J	9.7	J	19300	J	24.5	J	43100		100	U	113000
Lead	3	1.0	U	30.4	J	1.0	U	9.3		1.0	U	24		3	I	48.7
Magnesium	5000	12900		62900	J	8930	J	17000		9020		64000		9600		145000
Manganese	15	10.9	J	2810	J	1.7	U	865	J	2.3	J	3000		4.5	J	3400
Mercury	0.2	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.31		0.2	U	0.20
Nickel	40	10.5	J	51.1	J	8.0	U	11.3	J	8.0	U	36		9	J	82.2
Potassium	5000	500	U	3700	J	1220	U	828	J	500	U	4000	J	5000	U	8490
Selenium	5	3.0	U	R		3.0	U	3.0	UJ	3.0	U	R		5	UJ	R
Silver	10	4.0	U	4.0	U	4	U	4.0	U	4.0	U	4	J	8.9	J	4.0
Sodium	5000	4300	J	3200	U	1060	J	2930	U	1150	J	770	J	5000	U	3470
Thallium	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5	UJ	5	U	1.0
Vanadium	50	5.0	U	61.7		7.3	U	18.4	J	5.0	U	39		10	U	101
Zinc	20	2.3	J	155	J	2.0	U	51.2	U	2.0	U	120		20	U	273
Cyanide	5	NA		NA		NA		NA		NA		NA		NA		NA
BOD5 (mg/l)	1	NA		6	UJ	NA		2	U	NA		NA		NA		NA
Hardness (mg/l)	1	NA		150		NA		560		97.1		NA		NA		NA
Hex Chromium [1]	10	NA		20	U	NA		20	U	NA		20	U	NA		20

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-06D-01-F	W-06D-02	W-06D-02 BLDUP#1-2	W-06D-02-F	W-06D-03	W-06D-03-F	W-06D-02-F BLDUP#1-2-F
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		S2075	S3453	S3447	S3467	0008-SA	0008-SA	S3461
Sample Date:		5/27/93	6/23/93	6/23/93	6/23/93	11/29/93	11/29/93	6/23/93
Compound	CRDL Detection Limit							
Aluminum	200 J	53.3 U	22000 J	10300 J	117 J	21300	100 U	105 J
Antimony	60 J	18.0 U	45.9 J	33.8 J	18.0 U	60 U	60 U	18.0 U
Arsenic	10 UJ	4.0 U	4.0 UJ	4.0 UJ	4.0 U	3.2 J	1.4 J	4.0 U
Barium	200 J	4.8 J	195 J	142 J	5.0 J	230	7.4 J	5.0 J
Beryllium	5 J	0.10 U	2.7 J	2.8 J	0.10 U	2.1	2 U	0.10 U
Cadmium	3 U	2.0 U	2.0 U	2.0 U	2.0 U	0.73	0.5 UJ	2.0 U
Calcium	5000 J	19700	111000	93900	19300	224000	21000	19300
Chromium	10 J	3.0 U	49.5	24.0	3.8 J	31	9.6 U	3.0 U
Cobalt	50 J	3.0 U	33.2 J	23.2 J	3.0 U	48	10 U	3.0 U
Copper	5 J	3.0 U	32.6	17.1	3.0 U	39	3.6 U	3.0 U
Iron	100 J	3.0 U	41900 J	18000 J	83.5 J	40000	100 U	73.4 J
Lead	3 J	1.0 U	34.6	18.5	1.0 U	17	3 U	1.0 U
Magnesium	5000 J	8700	55400	42900	8790	107000	9200	8800
Manganese	15 J	1.0 U	1420 J	987 J	1.5 J	2300	10 U	1.5 J
Mercury	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31	0.2 U	0.20 U
Nickel	40 J	8.0 U	48.0	15.3 J	8.0 U	42	13 J	8.0 U
Potassium	5000	5000 U	2780 J	677 J	500 U	4700 J	5000 U	500 U
Selenium	5	3.0 U	3.0 UJ	3.0 UJ	3.0 U	R	5 UJ	3.0 UJ
ilver	10 U	4.4 U	4.0 U	4.0 U	4.0 U	4.5 J	12	4.0 U
Sodium	5000 UJ	1210 J	3030 U	3190 U	1740 J	2100 J	5000 U	1480 J
Thallium	10 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	5 U	1.0 U
Vanadium	50 J	7.3 U	41.1 J	22.5 J	5.0 U	33	10 U	5.0 U
Zinc	20 J	2.0 U	111	63.5 U	3.0 J	110	20 U	2.1 J
Cyanide	5	NA	NA	21.9	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	410	NA	20 U	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	20 U	NA

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-11S1-01	W-11S1-01-F	W-11S1-02	W-11S1-02-F	W-11S1-03	W-11S1-03-F	W-11S1-04
Latitude:		42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		S2002	S2007	S3449	S3463	0006-SA	0006-SA	0005-SA
Sample Date:		5/26/93	5/26/93	6/24/93	6/24/93	11/30/93	11/30/93	2/24/94
Compound	CRDL Detection Limit							
Aluminum	200	234000 J	253	13300 J	328	20300	100 U	26900
Antimony	60	86.2 J	23 J	37.7 J	18.0 U	60 U	16 J	60 U
Arsenic	10	4.0 UJ	4.8 J	4.1 J	4.0 U	13	3.7 J	3.9 J
Barium	200	1830 J	186 J	312	192 J	660	150	370
Beryllium	5	13.4 J	0.10 U	2.8 J	0.10 U	3	2 U	1.9 J
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	1.6	0.5 U	0.79
Calcium	5000	758000 J	43100	115000	49400	437000	37700	180000
Chromium	10	221 J	3.0 U	19.3	3.0 U	49 J	17 U	22
Cobalt	50	223 J	6.3 J	20.3 J	4.8 J	50	10 U	30
Copper	5	343 J	3.0 U	19.8	3.0 U	50 J	5 U	46 J
Iron	100	456000 J	47500	71500 J	50800	105000	51800	102000
Lead	3	194 J	1.0 U	31.7	10.0	88	3 U	33
Magnesium	5000	336000 J	15600	57400	20800	240000	15700	94900
Manganese	15	16600 J	3870	5450 J	4740	9400	3700	5600
Mercury	0.2	0.51	0.20 U	0.20 U	0.20 U	0.38	0.2 U	R
Nickel	40	311 J	8.0 U	33.7 J	8.0 U	64	9 U	51
Potassium	5000	34100	10900	12000	12000	13700	5100	10500
Selenium	5	R	3.0 U	3.0 UJ	3.0 UJ	25 U	5 UJ	R
Silver	10	4.0 U	4.0 U	4.0 U	4.0 U	10	11	10 U
Sodium	5000	16000 J	14500	15700	14800	20300	13200	12400 U
Thallium	10	10.0 UJ	1.0 U	1.0 UJ	1.0 UJ	5 UJ	5 UJ	5 U
Vanadium	50	305 J	5.0 U	25.9 J	5.0 U	47	10	36
Zinc	20	1050 J	2.0 U	73.1 U	2.0 U	140 U	11 J	130
Cyanide	5	7.5	NA	19.8	NA	24	NA	27
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	20 U	NA	20 U	NA	NA	NA	20 U

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-11S1-04-F		W-12S1-01		W-12S1-01-F		W-12S1-02		W-12S1-02-F		W-12S1-03		W-12S1-03-F	
Latitude:		42-52-40		42-52-42		42-52-42		42-52-42		42-52-42		42-52-42		42-52-42	
Longitude:		73-09-00		73-08-58		73-08-58		73-08-58		73-08-58		73-08-58		73-08-58	
Sample ID #:		0005-SA		S2004		S2009		S3454		S3468		0009-SA		0009-SA	
Sample Date:		2/24/94		5/26/93		5/26/93		6/24/93		6/24/93		11/29/93		11/29/93	
Compound	CRDL Detection Limit														
Aluminum	200	160		181000	J	40	U	17500	J	28.5	J	27100		100	U
Antimony	60	60	U	102	J	25.9	J	54.6	J	18.0	U	60	U	30	J
Arsenic	10	5	U	4.0	UJ	4.0	U	4.0	UJ	4.0	U	3.6	J	1.2	J
Barium	200	110		1140	J	7.2	J	232		7.5	J	310		13	
Beryllium	5	2	U	10.0	J	0.10	U	2.7	J	0.10	U	2.6		2	U
Cadmium	3	0.5	UJ	2.0	U	2.0	U	2.0	U	2.0	U	0.9		0.35	J
Calcium	5000	36900		560000	J	25600		135000		25200		164000		30200	
Chromium	10	10	U	581	J	3.0	U	64.9		3.0	U	100		10	U
Cobalt	50	10	U	329	J	3.0	U	67.9		3.0	U	90		10	U
Copper	5	3.1	U	384	J	3.0	U	40.3		10.9		83		5.6	U
Iron	100	37400		325000	J	3.0	U	32600	J	25.4	J	51000		51	J
Lead	3	3	U	120	J	1.0	U	36.3		1.0	U	30		3.4	
Magnesium	5000	14000		265000	J	11800		56000		11800		78200		13700	
Manganese	15	3500		8670	J	227		1830	J	141		3300		120	
Mercury	0.2	0.2	U	0.56		0.20	U	0.22		0.20	U	0.43		0.2	U
Nickel	40	40	U	310	J	8.0	U	54.8	J	11.1	J	72		12	J
Potassium	5000	7500		22100		3260	U	3140	J	500	U	5800		5000	U
Selenium	5	5	UJ	R		3.0	U	3.0	UJ	3.0	U	R		5	UJ
Silver	10	10	U	5.0	J	4.6	U	4.0	U	4.0	U	3.7		6.1	J
Sodium	5000	14200		6370	UJ	7300		4180	U	1560	J	1100	J	5000	U
Thallium	10	5	UJ	1.0	U	1.0	U	1.0	U	1.0	U	5	UJ	5	U
Vanadium	50	10	U	241	J	8.9	U	36.9	J	5.0	U	38		10	U
Zinc	20	8.8	U	1240	J	2.0	U	261		2.3	J	360		20	U
Cyanide	5	NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		20	U	NA		20	U	NA		NA		NA	

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-12S1-04	W-12S1-04-F	W-22S1-01	W-22S1-01-F	W-22S1-02	W-22S1-02-F	W-22S1-03
Latitude:		42-52-42	42-52-42	42-52-41	42-52-41	42-52-41	42-52-41	42-52-41
Longitude:		73-08-58	73-08-58	73-08-59	73-08-59	73-08-59	73-08-59	73-08-59
Sample ID #:		0008-SA	0008-SA	S2063	S2073	S3455	S3469	0010-SA
Sample Date:		2/25/94	2/25/94	5/26/93	5/26/93	6/24/93	6/24/93	11/29/93
Compound	CRDL Detection Limit							
Aluminum	200	47200	53 J	22900 J	38.3 U	45400 J	41.4 J	26800
Antimony	60	60 UJ	60 U	18.0 U	18.0 U	85.3	18.0 U	60 U
Arsenic	10	2.2 J	5 U	4.0 UJ	4.0 U	5.0 J	4.0 U	4 J
Barium	200	440	9.3 J	201	25.0 J	401	22.6 J	220
Beryllium	5	3.2	2 U	2.6 J	0.10 U	3.5 J	0.10 U	2.6
Cadmium	3	0.94	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	4.4
Calcium	5000	238000	27900	97000 J	39800	196000	33400	97700
Chromium	10	130	10 U	109 J	6.2 J	81.2	3.0 U	35
Cobalt	50	110	10 U	24.1 J	3.0 U	43.3 J	3.0 U	27
Copper	5	110 J	3.6 U	44.7 UJ	3.0 U	69.6	3.0 U	48
Iron	100	79400	75 J	41200 J	3.0 U	81800 J	39.6 J	50300
Lead	3	56	3 U	19.3 UJ	1.0 U	66.3	1.0 U	16
Magnesium	5000	121000	12700	48100 J	14500	94800	12500	49000
Manganese	15	3700	84	1780 J	909	3000 J	826	2700
Mercury	0.2	0.33 J	0.2 U	0.20 U	0.20 U	0.21	0.20 U	0.21
Nickel	40	87	40 U	120 J	8.0 U	117 J	8.0 U	57
Potassium	5000	8400	970 J	4430 J	3330 U	7940	1810 J	6700
Selenium	5	R	5 U	R	3.0 U	3.0 UJ	3.0 U	R
Silver	10	10 U	10 U	4.0 U	4 U	5.4 J	4.0 U	10 U
Sodium	5000	5000 U	2900 J	19300	15900	24500	46300	10700
Thallium	10	5 UJ	1.4 J	10.0 UJ	1.0 U	1.0 U	1.0 U	5 UJ
Vanadium	50	62	10 U	33.9 U	7.2 U	73.4	5.0 U	35
Zinc	20	620	12 U	174 J	2.0 U	266	2.0 U	180
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	20 U	NA	20 U	NA	20 U	NA	NA

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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-22S1-03-F		W-22S1-04		W-22S1-04-F		W-01-4		W-01-4-F		W-01-5		W-01-5-F	
Latitude:		42-52-41		42-52-41		42-52-41		42-52-46		42-52-46		42-52-46		42-52-46	
Longitude:		73-08-59		73-08-59		73-08-59		73-08-55		73-08-55		73-08-55		73-08-55	
Sample ID #:		0010-SA		0006-SA		0006-SA		0001-SA		0001-SA		T9319		T9323	
Sample Date:		11/29/93		2/25/94		2/25/94		2/24/94		2/24/94		7/05/94		7/05/94	
Compound	CRDL Detection Limit														
Aluminum	200	100	U	340		100	U	64000		100	U	20200		20	U
Antimony	60	13	J	60	UJ	60	U	60	UJ	60	U	3.8	UJ	9.2	U
Arsenic	10	5	U	5	U	5	U	5	U	5	U	1.8	J	1	U
Barium	200	28		32		36		830		12		360	J	8.6	J
Beryllium	5	2	U	2	U	2	U	3.8		2	U	1.3	J	0.1	U
Cadmium	3	0.5	UJ	0.5	U	0.5	U	1.5		0.5	U	1	UJ	1	UJ
Calcium	5000	50400		46600		51500		258000		23700		100000		19800	
Chromium	10	10	U	9.3	J	10	U	110		10	U	57.5	J	2.1	J
Cobalt	50	10	U	10	U	10	U	100		10	U	27.6	J	2	U
Copper	5	7.5	U	4.3	J	4.4	U	93	J	5	U	37.6	J	1	U
Iron	100	100	U	870		37	U	97500		8.3	U	43600		39.2	J
Lead	3	6	UJ	3	U	3	U	43		3	U	17.6	J	1	U
Magnesium	5000	18100		17100		18700		137000		9900		47600		7890	
Manganese	15	69		500		540		4200		10	U	1480	J	1.5	J
Mercury	0.2	0.2	U	R		0.2	U	0.65	J	0.2	U	0.2	U	0.2	U
Nickel	40	15	J	11	J	40	U	91		40	U	47.5	J	1.1	J
Potassium	5000	5000	U	3000	J	3400	J	12500		530	J	5220	J	301	J
Selenium	5	10	UJ	R		5	U	R		5	U	R		1.1	J
Silver	10	7.9	J	10	U	10	U	10	U	10	U	1	U	1	U
Sodium	5000	9000		15100		17000		5000	U	5000	U	3010	J	2070	J
Thallium	10	10	UJ	5	UJ	5	U	5	UJ	5	U	1	U	1	U
Vanadium	50	10	U	10	U	10	U	78		10	U	28.7	J	1	U
Zinc	20	20	U	16	U	22	U	230		11	U	131	J	13.3	J
Cyanide	5	NA		NA		NA		10	U	NA		NA		NA	
BOD5 (mg/l)	1	NA		2	U	NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA	

NOTES:
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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-27T-05		W-27T-05-F		W-TP-12-05		W-TP-12-05-F		W-22T-05		W-22T-05-F		W-26T-05		W-26T-05-F	
Latitude:		42-52-42		42-52-42		42-52-40		42-52-40		42-52-41		42-52-41		42-52-39		42-52-39	
Longitude:		73-09-02		73-09-02		73-09-01		73-09-01		73-08-59		73-08-59		73-09-05		73-09-05	
Sample ID #:		T9396		T9409		T9401		T9414		T9398		T9411		T9399		T9412	
Sample Date:		7/06/94		7/06/94		7/06/94		7/06/94		7/07/94		7/07/94		7/07/94		7/07/94	
Compound	CRDL Detection Limit																
Aluminum	200	33800		20	U	40200		5720		143000		359		59700		20	
Antimony	60	3.3	UJ	10.6	U	4.1	UJ	3	U	5.1	UJ	7.6	U	4.6	UJ	3.9	
Arsenic	10	R		1	U	R		1.6	J	R		1.2	J	3	J	1	
Barium	200	425	J	88.4	J	370		162	J	1180	J	16.6	J	724	J	12.8	
Beryllium	5	1.8	J	0.1	U	2.2	J	0.72	J	7.2		0.1	U	3.3	J	0.1	
Cadmium	3	1	UJ	1	U	1	UJ	1.3	J	1	UJ	1	U	1	UJ	1	
Calcium	5000	265000		113000		81800		40400		347000		21200		219000		17200	
Chromium	10	53.9	J	5.2	J	104	J	4.8	J	229	J	2	U	79.4	J	2	
Cobalt	50	34.3	J	2	U	58.2		31.8	J	130	J	2	U	58.3	J	2	
Copper	5	52.5	J	1	U	80.9		1	U	216	J	1.7	J	100	J	1	
Iron	100	67100		46.8	J	64700		939		259000		580		133000		30.8	
Lead	3	23.5	J	1	U	3370	J	232		186	J	1	U	53.2	J	1	
Magnesium	5000	121000		56000		47800		20700		155000		9390		90100		3450	
Manganese	15	2140	J	322		16400		13800		9000	J	218		4060	J	21.9	
Mercury	0.2	1.4		0.2	U	1.1		0.2	U	0.2	U	0.2	U	0.2	U	0.2	
Nickel	40	57.4	J	3.8	J	9370		8220		199	J	2.7	J	111	J	1.3	
Potassium	5000	15800	J	6020		67300		50000		31800	J	1900	J	10700	J	289	
Selenium	5	R		1	UJ	R		1.4	J	R		1	U	R		1	
Silver	10	1	U	1	U	1	U	1	U	1	U	1.1	J	1	U	1	
Sodium	5000	10900	J	8610		20800		16200		5640	J	3160	J	3900	J	2060	
Thallium	10	1	UJ	1	UJ	1	UJ	1	UJ	3.1	J	1	UJ	1	UJ	1	
Vanadium	50	42.8	J	1	U	44.3	J	1	U	176		1.3	J	74.6		1	
Zinc	20	202	J	13	J	1730	J	1150		651	J	14.3	J	354	J	18.4	
Cyanide	5	NA		NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA		NA	

NOTES:
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Table 14B

Ground Water Inorganic Analyses
Shallow Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04T-05		W-04T-05-F	
Latitude:		42-52-38		42-52-38	
Longitude:		73-09-01		73-09-01	
Sample ID #:		T9404		T9415	
Sample Date:		7/06/94		7/06/94	
Compound	CRDL Detection Limit				
Aluminum	200	U	75700		22.9	J
Antimony	60	U	4.9	UJ	10.9	U
Arsenic	10	U	4.1	J	1.2	J
Barium	200	J	722	J	11	J
Beryllium	5	U	3.9	J	0.15	J
Cadmium	3	U	1	UJ	1	U
Calcium	5000		197000		19900	
Chromium	10	U	157	J	3.1	J
Cobalt	50	U	66.4	J	2	U
Copper	5	U	121	J	1	U
Iron	100	U	140000		26.7	U
Lead	3	U	69.2	J	1.3	J
Magnesium	5000	J	93100		8190	
Manganese	15		4460	J	174	
Mercury	0.2	U	0.2	U	0.2	U
Nickel	40	J	113	J	2.9	J
Potassium	5000	J	19900	J	1910	J
Selenium	5	U	R		1	U
Silver	10	U	1	U	1	U
Sodium	5000	J	5710	J	3830	J
Thallium	10	U	1.4	J	1	U
Vanadium	50	U	96.6		1	U
Zinc	20	J	327	J	21	
Cyanide	5		NA		NA	
BOD5 (mg/l)	1		NA		NA	
Hardness (mg/l)	1		NA		NA	
Hex Chromium [1]	10		NA		NA	

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Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01B-01	W-01B-01-F	W-01B-02	W-01B-02-F	W-01B-03	W-01B-03-F	W-01B-04
Latitude:		42-52-44	42-52-44	42-52-44	42-52-44	42-52-44	42-52-44	42-52-44
Longitude:		73-08-58	73-08-58	73-08-58	73-08-58	73-08-58	73-08-58	73-08-58
Sample ID #:		S2391	S2398	S3625	S3628	0004-SA	0004-SA	0002-SA
Sample Date:		6/3/93	6/3/93	6/28/93	6/28/93	12/02/93	12/02/93	3/3/94
Compound	CRDL Detection Limit							
Aluminum	200	36.1 U	58.9 UJ	12.0 U	12.0 U	440	100 U	89 J
Antimony	60	18.0 U	31 U	18.0 U	18.0 U	60 U	60 U	60 U
Arsenic	10	4.0 UJ	4.0 U	4.0 U	4.0 U	4.2 J	1.1 J	5 U
Barium	200	114 J	128 J	112 J	121 J	160	86	150
Beryllium	5	0.10 U	1.8 U	0.10 U	0.10 U	2 U	2 U	2 U
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	0.5 UJ	0.5 U	0.5 U
Calcium	5000	13900	15800	14300	15700	18200	18600	16500
Chromium	10	3.0 U	3.0 U	3.0 U	3.0 U	17	10 U	10 U
Cobalt	50	3.0 U	3.0 U	3.0 U	3.0 U	18	10 U	10 U
Copper	5	7.2 U	5 U	10.2 J	3.0 U	41	5 U	16 U
Iron	100	516 J	3.0 U	172 J	10.3 J	15700	100 U	10100
Lead	3	4.1 UJ	1.0 U	1.5 J	1.0 U	11 J	3 U	1.8 J
Magnesium	5000	5780	6840	5840	6910	5300	5500	6400
Manganese	15	11.1 UJ	5.6 UJ	4.2 U	4.2 J	200	46	97
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U
Nickel	40	8.0 U	8.0 U	8.0 U	8.0 U	40 U	40 U	8.2 J
otassium	5000	500 UJ	2230 U	500 U	500 U	2100 J	2000 J	700 U
Selenium	5	3.0 UJ	3.0 U	3.0 U	3.0 UJ	5 U	5 UJ	5 UJ
Silver	10	4.0 UJ	6.5 U	4.0 UJ	4.0 U	10 U	10 U	10 U
Sodium	5000	1920 U	960 J	2290 U	977 J	3800 J	2300 J	2200 U
Thallium	10	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U
Vanadium	50	5.0 U	8.2 J	5.0 U	5.0 U	10 U	10 U	10 U
Zinc	20	33.4 UJ	12.6 UJ	13.1 U	4.4 J	750	15 J	530
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	6 UJ	NA	2 U	NA	2 U
Hardness (mg/l)	1	59 J	NA	60	NA	67.3	69.1	67.6
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

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Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01B-04-F	W-04SI-01	W-04SI-01 BLDUP#3-1	W-04SI-01-F	W-04SI-01-F BLDUP#3-1-F	W-04SI-02	W-04SI-02-F
Latitude:		42-52-44	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-08-58	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		0002-SA	S2327	S2328	S2334	S2335	S3624	S3627
Sample Date:		3/3/94	6/2/93	6/2/93	6/2/93	6/2/93	6/28/93	6/28/93
Compound	CRDL Detection Limit							
Aluminum	200	100 U	553 J	12.0 U	12.0 U	1290 J	1450 J	12.9 J
Antimony	60	60 U	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U
Arsenic	10	5 U	4.0 UJ	4.0 UJ	4.0 U	4.0 U	4.0 U	4.0 U
Barium	200	120	66.1 J	9.8 J	12.4 J	45.7 J	165 J	10.0 J
Beryllium	5	2 U	0.10 U	0.10 U	0.10 U	0.92 J	0.10 U	0.10 U
Cadmium	3	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Calcium	5000	15600	17400	16400	18800	19800	22800	18400
Chromium	10	10 U	26.5 J	3.0 U	3.0 U	5.3 J	20.5	3.0 U
Cobalt	50	10 U	4.9 J	3.0 U	3.0 U	4.9 J	10.5 J	3.0 U
Copper	5	4.9 U	12.4 U	6.5 U	3.0 U	3.0 U	26.1 J	3.0 U
Iron	100	260	5160 J	15.2 UJ	3.0 U	1410 J	15200 J	11.0 J
Lead	3	3 U	38.1 J	1.0 U	1.0 U	36.2 J	123	1.0 U
Magnesium	5000	6800	5250	5090	6060	6280	5360	4980 J
Manganese	15	46	238 J	1.0 U	1.0 U	203 J	737 J	1.0 J
Mercury	0.2	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
'ickel	40	40 U	14.5 J	8.7 J	8.0 U	8.0 U	22.0 J	8.0 U
otassium	5000	660 J	1710 J	1620 J	3210 J	3190 J	2280 J	2780 J
Selenium	5	5 U	3.0 U	3.0 U	3.0 UJ	3.0 UJ	3.0 U	3.0 U
Silver	10	10 U	4.0 UJ	4.0 UJ	4.0 U	4.0 U	4.0 UJ	4.0 U
Sodium	5000	2000 J	8320	8490	8760	8560	10000	8360
Thallium	10	1.6 J	1.0 U	1.0 U	1.0 U	1.0 U	1.2 J	1.0 U
Vanadium	50	10 U	5.0 U	5.0 U	5.0 U	5.0 U	6.8 J	5.0 U
Zinc	20	41 U	131 J	3.8 UJ	2.0 U	102 J	106	3.2 J
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	6 UJ	NA	NA	NA	6 UJ	1 U
Hardness (mg/l)	1	67.1	65 J	NA	NA	NA	79	NA
Hex Chromium [1]	10	NA	20 U	NA	20 U	20 U	NA	NA

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Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04SI-03	W-04SI-03-F	W-04SI-04	W-04SI-04-F	W-04DI-01	W-04DI-01-F	W-04DI-02
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		0010-SA	0010-SA	0001-SA	0001-SA	S2493	S2499	S3714
Sample Date:		11/30/93	11/30/93	3/2/94	3/2/94	6/4/93	6/4/93	6/29/93
Compound	CRDL Detection Limit							
Aluminum	200	1900	100 U	270	100 U	62.1 UJ	19.7 UJ	12.0 U
Antimony	60	60 U	13 J	60 U	60 U	18.0 U	18.0 U	20.0 J
Arsenic	10	5 U	5 U	5 U	5 U	4.0 U	4.0 U	4.0 U
Barium	200	130	12	36	11	18.9 J	24.1 J	21.7 J
Beryllium	5	2 U	2 U	2 U	2 U	0.10 U	0.93 U	0.10 U
Cadmium	3	0.1 J	0.2 U	0.5 U	0.5 U	2.0 U	2.0 U	2.0 U
Calcium	5000	19300	16500	16200	13400	10400	11800	12400
Chromium	10	26 J	14 U	9 J	10 U	6.2 UJ	3.0 U	3.0 U
Cobalt	50	9.5 J	10 U	10 U	10 U	3.0 U	3.0 U	3.0 U
Copper	5	29 U	5 U	5	5 U	5 U	3.2 U	10.2 J
Iron	100	12600	100 U	2400 J	35 J	485 J	3.0 U	23 U
Lead	3	48	3 U	14	3 U	3.3 UJ	1.0 U	1.8 J
Magnesium	5000	5000	4800	5100	4800	5210	6410	6180
Manganese	15	600	10 U	13000	10 U	16.9 J	2.9 UJ	5.1 U
Mercury	0.2	0.2	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U
'ickel	40	14 J	40 U	40 U	40 U	8.0 U	10.6 U	8.0 U
otassium	5000	3600 J	1800 J	3300 J	3000 J	2830 J	3990 U	1230 J
Selenium	5	5 U	5 UJ	5 U	5 U	3.0 U	3.0 U	3.0 U
Silver	10	10 U	4.6 J	10 U	10 U	4.0 U	4.0 U	4.0 UJ
Sodium	5000	4600 J	2100 J	2600 U	2500 J	3590 U	2810 J	2860 U
Thallium	10	5 U	5 U	1.7 J	5 U	1.0 U	1.0 U	1.0 U
Vanadium	50	7 J	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Zinc	20	350	7.8 J	22 U	20 U	11.6 UJ	10.4 UJ	18.9 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	2 U	NA	10 U	NA	6 UJ	NA	6 UJ
Hardness (mg/l)	1	68.9	60.9	61.4	53.3	47 J	NA	56
Hex Chromium [1]	10	20 U	NA	NA	NA	20 U	NA	20 U

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Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04DI-02-F	W-04DI-03	W-04DI-03-F	W-04DI-04	W-04DI-04-F	W-04B-01	W-04B-01-F
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		S3719	0001-SA	0001-SA	0003-SA	0003-SA	S2494	S2500
Sample Date:		6/29/93	12/01/93	12/01/93	3/2/94	3/2/94	6/4/93	6/4/93
Compound	CRDL Detection Limit							
Aluminum	200	63.0 J	100 U	100 U	360	100 U	12.0 U	29.1 UJ
Antimony	60	26.7 J	60 U	60 U	60 U	60 U	18.0 U	18.0 U
Arsenic	10	4.0 UJ	5 U	5 U	5 U	5 U	4.0 UJ	4.0 U
Barium	200	19.1 J	37	28	36	24	38.6 J	39.8 J
Beryllium	5	0.10 U	2 U	2 U	2 U	2 U	0.10 U	1.9 U
Cadmium	3	2.0 U	0.3 J	0.28 J	0.15 J	0.5 U	2.0 U	2.0 U
Calcium	5000	11800	13700	14100	13400	13500	14200	15100
Chromium	10	3.0 U	41	4.9 J	22	10 U	3.3 UJ	3.0 U
Cobalt	50	3.0 U	10 U	10 U	5.9 J	10 U	3.0 U	3.0 U
Copper	5	4.6 J	24 U	6600	19	5 U	8.7 U	8.2 U
Iron	100	3.0 U	1100	5 U	4500 J	19 U	620 J	99.2 UJ
Lead	3	4.0 U	14	3 U	26	3 U	3 UJ	1.0 U
Magnesium	5000	6370	6400	6600	6200	6700	6180	6950
Manganese	15	5.6 J	77	24	120	10 U	33.8 J	34.6 J
Mercury	0.2	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U
Nickel	40	8.0 U	150	15 J	28	40 U	14.6 J	8.0 U
Potassium	5000	4980 J	4500 J	4400 J	5900	4300 J	500 UJ	1350 U
Selenium	5	3.0 U	5 UJ	5 UJ	5 U	5 U	3.0 UJ	3.0 U
Silver	10	8.0 J	10 U	10 U	10 U	10 U	4.0 U	4.0 U
Sodium	5000	2190 J	5000 U	3200 J	4500 U	5000 U	1660 U	1130 J
Thallium	10	1.0 U	5 U	5 U	1.9 J	5 U	1.0 U	1.0 U
Vanadium	50	10.6 J	10 U	10 U	10 U	10 U	5.0 U	5.0 U
Zinc	20	9.3 J	78 U	49	63 J	26	47.0 UJ	7.8 UJ
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	2 U	NA	2 U	NA	6 UJ	NA
Hardness (mg/l)	1	NA	60.8	62.4	58.9	61.2	61 J	NA
Hex Chromium [1]	10	NA	20 U	NA	NA	NA	20 U	20 U

NOTES:
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NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04B-02	W-04B-02-F	W-04B-03	W-04B-03-F	W-04B-04	W-04B-04-F	W-04B-04 BLDUP-1-4
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38	42-52-38
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		S3713	S3718	0006-SA	0006-SA	0004-SA	0004-SA	0004-SA
Sample Date:		6/29/93	6/29/93	12/01/93	12/01/93	3/2/94	3/2/94	3/2/94
Compound	CRDL Detection Limit							
Aluminum	200	12.0 U	68.3 J	100 U	100 U	100 U	100 U	100 U
Antimony	60	18.0 U	36.6 J	60 U	60 U	60 U	60 U	60 U
Arsenic	10	4.0 U	4.0 U	5 U	5 U	5 U	5 U	5 U
Barium	200	42.5 J	38.2 J	53	47	50	45	44
Beryllium	5	0.10 U	0.10 U	2 U	2 U	2 U	2 U	2 U
Cadmium	3	2.0 U	2.0 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Calcium	5000	15600	14600	16700	15000	17000	15300	15200
Chromium	10	3.0 U	3.0 U	10 U	3.8 J	10 U	10 U	10 U
Cobalt	50	3.0 U	3.0 U	10 U	10 U	10 U	10 U	10 U
Copper	5	7.2 J	3.0 U	8.5 U	5 U	6.6	5 U	3.6 J
Iron	100	235 J	72.1 J	560	37 J	1300 J	44 J	830 J
Lead	3	1.0 U	2.0 U	1.9 J	3 U	1 J	3 U	3 U
Magnesium	5000	6730	6700	7500	6700	7400	6800	6600
Manganese	15	34.8 J	33.7	49	44 J	42	42	45
Mercury	0.2	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ickel	40	8.0 U	8.0 U	40 U	40 U	40 U	40 U	40 U
otassium	5000	500 U	2840 J	800 J	770 J	1000 U	650 J	660 U
Selenium	5	3.0 U	3.0 U	5 U	5 UJ	5 U	5 U	5 U
Silver	10	4.0 UJ	8.4 J	10 U	10 U	10 U	10	10 U
Sodium	5000	2120 U	937 J	5000 U	660 J	5000 U	10 U	5000 U
Thallium	10	1.0 U	1.0 U	5 U	5 U	1.7 J	5 U	5 U
Vanadium	50	5.0 U	12.0 J	10 U	10 U	10 U	10 U	10 U
Zinc	20	26.1 U	4.9 J	87 U	27	46 J	21	27 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	2 U	NA	2 U	NA	2 U
Hardness (mg/l)	1	67	NA	72.4	65.2	73.1	66.2	64.9
Hex Chromium [1]	10	20 U	NA	20 U	NA	NA	NA	NA

NOTES:
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R – Unusable.
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UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-04B-04-F BLDUP-1-4		W-07SI-01		W-07SI-01-F		W-07SI-02		W-07SI-02-F		W-07SI-03		W-07SI-03-F	
Latitude:		42-52-38		42-52-44		42-52-44		42-52-44		42-52-44		42-52-44		42-52-44	
Longitude:		73-09-00		73-09-02		73-09-02		73-09-02		73-09-02		73-09-02		73-09-02	
Sample ID #:		0004-SA		S2392		S2399		S3794		S3800		0008-SA		0008-SA	
Sample Date:		3/2/94		6/3/93		6/3/93		6/30/93		6/30/93		11/30/93		11/30/93	
Compound	CRDL Detection Limit														
Aluminum	200	100	U	12700	J	80.9	UJ	17100	J	39.0	J	180		100	U
Antimony	60	60	U	29.9	J	42.8	U	20.1	J	18.0	U	60	U	60	U
Arsenic	10	5	U	4.0	UJ	4.0	U	4.0	U	4.0	U	1.2	J	1.1	J
Barium	200	44		138	J	13.3	J	200	J	13.4	J	21		20	
Beryllium	5	2	U	2.7	J	1.8	U	3.0	J	0.10	U	2	U	2	U
Cadmium	3	0.5	U	2.0	U	2.0	U	2.0	U	2.0	U	0.1	J	0.5	U
Calcium	5000	15700		31500		19100		58400		22800		20600		22300	
Chromium	10	10	U	136	J	3.0	U	146		3.0	U	10	UJ	10	U
Cobalt	50	10	U	28.9	J	3.0	U	31.7	J	3.0	U	10	U	10	U
Copper	5	5	U	32.8	U	3.0	U	43.5	J	3.0	U	6.8	U	7.8	U
Iron	100	43	J	31000	J	3.0	U	42000	J	9.4	J	280		100	U
Lead	3	3	U	21.9	J	1.0	U	25.0		1.0	U	2.1	J	3	U
Magnesium	5000	7000		15600		7900		28800		9560		10300		11100	
Manganese	15	38		724	J	1.5	UJ	1190	J	5.6	J	27		11	
Mercury	0.2	0.2	U	0.20	U	0.20	U	0.20	U	0.20	U	0.2	U	0.2	U
'ickel	40	40	U	126		8.0	U	114		8.0	U	40	U	11	U
otassium	5000	770	J	1770	J	2510	U	2070	J	1250	J	10800		9900	
Selenium	5	5	UJ	3.0	U	3.0	U	3.0	UJ	3.0	U	5	U	5	U
Silver	10	10	U	4.0	UJ	6.8	U	4.0	UJ	4.0	U	10	U	4.9	J
Sodium	5000	5000	U	10800		10100		10700		8120		11700		7800	
Thallium	10	5	U	1.0	U	1.0	U	1.0	U	1.0	U	5	U	5	UJ
Vanadium	50	12	U	22.1	J	8.6	J	26.1	J	5.0	U	10	U	10	U
Zinc	20	16	U	101	J	2.0	U	136		2.0	U	25	U	8	J
Cyanide	5	NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1	67.9		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA	

NOTES:
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[1] Subcontracted to Adirondack Environmental Services.

Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-07SI-04	W-07SI-04-F	W-08SI-01	W-08SI-01-F	W-08SI-02	W-08SI-02-F	W-08SI-03
Latitude:		42-52-44	42-52-44	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0003-SA	0003-SA	S2244	S2246	S3795	S3801	0005-SA
Sample Date:		3/3/94	3/3/94	6/1/93	6/1/93	6/30/93	6/30/93	12/01/93
Compound	CRDL Detection Limit							
Aluminum	200	150	100 U	1680 J	357 J	1070 J	472	1800
Antimony	60	60 U	60 U	18.0 U	18.0 U	18.0 U	18.0 U	63
Arsenic	10	5 U	5 U	4.0 U	4.0 U	4.0 U	4.0 U	5 U
Barium	200	22 U	18	3160 J	3320 J	2230 J	2490 J	2100
Beryllium	5	2 U	2 U	1.7 J	1.7 J	0.10 U	0.10 U	1.3 J
Cadmium	3	0.5 U	0.16 J	2.0 U	2.0 U	2.0 U	2.0 U	1.0 J
Calcium	5000	32000	23300	627000	625000	486000	517000	523000
Chromium	10	16	10 U	19.0 J	5.3 J	9.4 J	7.1 J	56
Cobalt	50	10 U	10 U	3.0 U	3.0 U	3.0 U	3.0 U	10 U
Copper	5	47	5.9 U	3.0 U	3.0 U	10.9 J	3.0 U	17 U
Iron	100	540	14 U	534 J	3.0 U	327 J	4.9 J	1400
Lead	3	11	3 U	3.0 UJ	1.0 U	1.0 U	1.0 U	2.6 J
Magnesium	5000	15400	14100	608 J	293 J	475 J	293 J	450
Manganese	15	16	10 U	20.8 J	7.4 UJ	14.7 J	8.1 J	24
Mercury	0.2	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U
'ickel	40	12 J	40 U	8.0 U	8.0 U	8.0 U	8.0 U	24 J
otassium	5000	7900	15200	51100 J	50000 J	26100 J	30000 J	26500
Selenium	5	5 U	5 U	3.0 UJ	3.0 UJ	3.0 U	3.0 U	5 UJ
Silver	10	10 U	10 U	4.0 UJ	4.0 U	4.0 UJ	4.0 U	10 U
Sodium	5000	9600	12000	38500 J	39400 J	26700 J	28400 J	26900
Thallium	10	5 U	1.6 J	1.3 J	1.0 U	1.0 UJ	1.0 U	5 UJ
Vanadium	50	5.9 J	5 U	30.3 J	27.9 J	25.7 J	30.3 J	10
Zinc	20	30 U	6.8 U	26.5 UJ	2.0 U	15.2 U	2.0 U	200
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

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[1] Subcontracted to Adirondack Environmental Services.

Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08SI-03-F	W-08SI-04	W-08SI-04-F	W-08B-01	W-08B-01-F	W-08B-02	W-08B-02-F
Latitude:		42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40	42-52-40
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		0005-SA	0002-SA	0002-SA	S2495	S2501	S3916	S3924
Sample Date:		12/01/93	2/23/94	2/23/94	6/3/93	6/3/93	7/1/93	7/1/93
Compound	CRDL Detection Limit							
Aluminum	200	520	1600	110	54.1 UJ	12.0 U	15.0 J	12.0 U
Antimony	60	60 U	60 U	60 U	18.0 U	18.0 U	18.0 U	18.0 U
Arsenic	10	5 U	5 U	5 U	4.0 U	4.0 U	4.0 U	4.0 U
Barium	200	2000	1400	1200	90.1 J	84.5 J	88.8 J	83.9 J
Beryllium	5	2 U	2 U	2 U	0.10 U	1.9 U	0.10 U	0.10 U
Cadmium	3	0.5 UJ	0.5 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Calcium	5000	499000	432000	373000	15700	15600	15300	15400
Chromium	10	10 U	31	10 U	3.7 UJ	3.0 U	3.0 U	3.0 U
Cobalt	50	10 U	10 U	10 U	89.2	54.4	44.3 J	39.6 J
Copper	5	6.5 J	5 U	3.6 U	12.4 U	3.0 U	5.0 J	3.0 U
Iron	100	69 J	780 J	100 U	910 J	3.0 U	254 J	13.8 J
Lead	3	3 UJ	3 U	3 U	3 UJ	1.0 U	1.5 J	1.0 U
Magnesium	5000	200 U	390	140 J	6360	6890	6430	6910
Manganese	15	10 U	19	10 U	19.2 J	11.9 UJ	21.7 J	20.5
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.22	0.23
'ickel	40	40 U	13 J	40 U	8.0 U	8.0 U	8.0 U	8.0 U
otassium	5000	26000	10100	9100	500 U	952 U	500 U	666 J
Selenium	5	5 UJ	5 UJ	5 UJ	3.0 U	3.0 U	3.0 U	3.0 U
Silver	10	10 U	10 U	10 U	4.0 U	4.0 U	4.0 U	4.0 U
Sodium	5000	24800	15400 U	17400 J	2430 U	1350 J	2230 U	1080 J
Thallium	10	10 UJ	5 UJ	5 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	50	10 U	6.3 J	10 U	5 U	5.0 U	5.0 U	5.0 U
Zinc	20	19 J	180	17 U	57.2 UJ	7.8 UJ	40.0	10.1 J
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	20 U	20 U	NA	NA

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[1] Subcontracted to Adirondack Environmental Services.

Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-08B-03	W-08B-03-F	W-09SI-01	W-09SI-01-F	W-09SI-02	W-09SI-02-F	W-09SI-03
Latitude:		42-52-40	42-52-40	42-52-37	42-52-37	42-52-37	42-52-37	42-52-37
Longitude:		73-09-02	73-09-02	73-09-03	73-09-03	73-09-03	73-09-03	73-09-03
Sample ID #:		0002-SA	0002-SA	S2395	S2402	S3712	S3717	0002-SA
Sample Date:		12/02/93	12/02/93	6/2/93	6/2/93	6/29/93	6/29/93	12/01/93
Compound	CRDL Detection Limit							
Aluminum	200	48 J	100 U	1910 J	64.6 UJ	995 J	66.2 J	120 U
Antimony	60	60 U	60 U	60 U	40 U	18.0 U	37.3 J	60 U
Arsenic	10	5 UJ	5 U	4.0 UJ	4.0 U	4.0 U	4.0 U	5 U
Barium	200	87	78	155 J	62.3 J	107 J	64.4 J	99
Beryllium	5	2 U	2 U	2.8 J	1.8 U	0.10 U	0.10 U	2 U
Cadmium	3	0.5 UJ	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	0.1 J
Calcium	5000	14500	15400	18900	19500	21000	18700	19800
Chromium	10	10 U	3.4 J	148 J	3.0 U	19.2	3.0 U	40
Cobalt	50	19	15	14.8 J	3.0 U	3.0 J	3.0 U	10 U
Copper	5	20	0.34 J	17.5 U	5 U	7.9 J	3.0 U	6.6 U
Iron	100	2300	100 U	22500 J	3.0 U	10300 J	3.0 U	4100
Lead	3	4.7 J	3 U	5.1 UJ	1.0 U	2.9 J	4.0 U	1.8 J
Magnesium	5000	6400	6600	6940	7390	7700	7300	7700
Manganese	15	40	30	326 J	5.4 UJ	153 J	9.4 J	78
Mercury	0.2	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U
Nickel	40	40 U	40 U	84.0	8.0 U	15.8 J	8.0 U	18 J
Potassium	5000	840 J	700 J	500 UJ	2950 U	500 U	3070 J	1200 J
Selenium	5	5 U	5 U	3.0 UJ	3.0 U	3.0 U	3.0 U	5 U
Silver	10	10 U	10 U	4.0 UJ	6.8 U	4.0 UJ	8.2 J	10 U
Sodium	5000	3000 J	930 J	5970	5120	5890 U	4040 J	5000 U
Thallium	10	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
Vanadium	50	10 U	10 U	7.3 J	8.6 J	5.0 U	11.5 J	10 U
Zinc	20	140	33	468 J	2.0 U	93.3	2.0 U	380
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

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Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-09SI-03-F	W-09SI-04	W-09SI-04-F	W-09B-01	W-09B-01-F	W-09B-02	W-09B-02-F
Latitude:		42-52-37	42-52-37	42-52-37	42-52-37	42-52-37	42-52-37	42-52-37
Longitude:		73-09-03	73-09-03	73-09-03	73-09-03	73-09-03	73-09-03	73-09-03
Sample ID #:		0002-SA	0003-SA	0003-SA	S2393	S2400	S3918	S3926
Sample Date:		12/01/93	2/28/94	2/28/94	6/2/93	6/2/93	7/1/93	7/1/93
Compound	CRDL Detection Limit							
Aluminum	200	100 U	97 J	100 U	102 U	70.5 UJ	55.0 J	12.0 U
Antimony	60	60 U	60 U	60 U	18.0 U	43.4 U	18.0 U	18.0 U
Arsenic	10	5 U	5 U	5 U	4.0 UJ	4.0 U	4.0 U	4.0 U
Barium	200	84	85	81	50.6 J	43.4 J	59.5 J	42.0 J
Beryllium	5	2 U	2 U	2 U	0.10 U	1.8 U	0.10 U	0.10 U
Cadmium	3	0.5 U	0.5 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Calcium	5000	20600	17700	18600	13300	14700	16600	14700
Chromium	10	3.4 J	10 U	10 U	5.4 UJ	3.0 U	3.0 U	3.0 U
Cobalt	50	10 U	10 U	10 U	8.1 J	3.9 J	3.0 U	3.2 J
Copper	5	5 U	5 U	3.9 U	7.9 U	7.4 U	3.5 J	3.0 U
Iron	100	100 U	600 J	100 U	2560 J	181 J	424 J	98.8 J
Lead	3	3 U	3 U	3 U	5.0 UJ	1.1 J	1.0 U	1.2 U
Magnesium	5000	7600	7400	7200	5280	6120	6820	6380
Manganese	15	28	28	21	41.6 J	18.3 UJ	18.4 J	12.4 J
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.31
Nickel	40	40 U	40 U	40 U	8.0 U	8.0 U	8.0 U	8.0 U
otassium	5000	1000 J	540 J	740 J	500 UJ	3150 U	500 U	645 J
Selenium	5	5 UJ	5 U	5 U	3.0 U	3.0 UJ	3.0 UJ	3.0 U
Silver	10	10 U	10 U	10 U	4.0 UJ	8.5 U	4.0 U	4.0 U
Sodium	5000	2900 J	5000 U	2500 J	1670 U	1080 J	2480 U	951 J
Thallium	10	5 U	5 UJ	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	50	10 U	10 U	10 U	5.0 U	9.4 J	5.0 U	5.0 U
Zinc	20	16 J	23	5.1 U	34.7 UJ	5.2 UJ	18.4 U	2.0 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES:
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Table 14C

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-09B-03	W-09B-03-F	W-09B-04	W-09B-04-F
Latitude:		42-52-37	42-52-37	42-52-37	42-52-37
Longitude:		73-09-03	73-09-03	73-09-03	73-09-03
Sample ID #:		0004-SA	0004-SA	0002-SA	0002-SA
Sample Date:		12/01/93	12/01/93	3/2/94	3/2/94
Compound	CRDL Detection Limit				
Aluminum	200	100 U	100 U	100 U	100 U
Antimony	60	60 U	60 U	60 U	60 U
Arsenic	10	5 U	5 U	5 U	5 U
Barium	200	55	50	52	52
Beryllium	5	2 U	2 U	2 U	2 U
Cadmium	3	0.5 U	0.17 J	0.5 U	0.5 U
Calcium	5000	14000	14400	14200	13900
Chromium	10	7.9 J	5.6 J	10 U	10 U
Cobalt	50	10 U	10 U	5.7 J	10 U
Copper	5	8.9 U	5 U	5.7	5 U
Iron	100	440	63 J	500 J	50 J
Lead	3	1.2 J	3 U	1.5 J	3 U
Magnesium	5000	6200	6100	6000	6200
Manganese	15	12	16	9	7.2 J
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	40 U	40 U	40 U	40 U
Potassium	5000	780 J	720 J	630 U	640 J
Selenium	5	5 U	5 UJ	5 U	5 U
Silver	10	10 U	10 U	10 U	10 U
Sodium	5000	5000 U	980 J	5000 U	5000 U
Thallium	10	5 U	5 U	1.5 J	5 U
Vanadium	50	10 U	10 U	10 U	10 U
Zinc	20	30 U	19 J	21 U	13 U
Cyanide	5	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA

NOTES:
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UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.

Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-25SI-01	W-25SI-01-F	W-25SI-02	W-25SI-02-F	W-25SI-03	W-25SI-03-F	W-25SI-04
Latitude:		42-52-39	42-52-39	42-52-39	42-52-39	42-52-39	42-52-39	42-52-39
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02
Sample ID #:		S2331	S2338	S3715	S3720	0007-SA	0007-SA	0002-SA
Sample Date:		6/1/93	6/1/93	6/29/93	6/29/93	12/01/93	12/01/93	2/28/94
Compound	CRDL Detection Limit							
Aluminum	200	2900 J	299 J	8420 J	308	3000	390	1200
Antimony	60	18.0 U	18.0 U	18.0 U	18.0 U	60 U	60 U	60 U
Arsenic	10	4.0 UJ	4.0 U	4.0 U	4.0 U	5 U	1 J	5 U
Barium	200	185 J	39.9 J	489 J	26.9 J	120	19	40
Beryllium	5	2.8 J	0.10 U	3.9 J	0.10 U	2 U	2 U	2 U
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	0.2 J	0.5 U	0.5 U
Calcium	5000	41000	38300	47900	36000	49000	29700	27300
Chromium	10	75.9 J	9.3 J	45.0	12.2	12	13	10 U
Cobalt	50	4.1 J	3.0 U	19.1 J	3.0 U	9.3 J	10 U	10 U
Copper	5	74.7 U	3.0 U	269 J	3.0 U	37 U	3.2 J	11 J
Iron	100	9220 J	3.0 U	32600 J	3.0 U	2200	100 U	1600 J
Lead	3	428 J	1.0 U	1180	1.0 U	560	3 U	62
Magnesium	5000	1320 J	220 J	3640 J	161 J	2600	230	1000
langanese	15	380 J	1.2 UJ	1520 J	1.0 U	660	10 U	99
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.22	0.2 U	0.2 U
Nickel	40	33.6 J	8.0 U	33.9 J	8.0 U	40 U	40 U	40 U
Potassium	5000	5130 J	6460	5900	7600	5500	5500	4300 J
Selenium	5	3.0 UJ	3.0 UJ	3.0 UJ	3.0 U	5 UJ	10 U	5 U
Silver	10	4.0 UJ	4.0 U	4.0 UJ	4.0 U	10 U	10 U	10 U
Sodium	5000	7100	6390	8640	7970	4700 J	7100	3200 J
Thallium	10	1.0 U	1.0 U	1.4 J	1.0 U	5 U	5 U	5 UJ
Vanadium	50	16.6 J	6.3 J	37.8 J	12.7 J	9.8 J	5.6 J	8.7 J
Zinc	20	109 J	2.0 U	247	2.0 U	320	8 J	21
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	20 U	NA	NA	NA	NA	NA	NA

NOTES:
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[2] Location coordinates for these wells were not specified in the QAPP.

Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-25SI-04 BLDUP-2-4		W-25SI-04-F		W-25SI-04-F BLDUP-2-4		W-25DI-01		W-25DI-01-F		W-25DI-02		W-25DI-02-F	
Latitude:		42-52-39		42-52-39		42-52-39		42-52-39		42-52-39		42-52-39		42-52-39	
Longitude:		73-09-02		73-09-02		73-09-02		73-09-02		73-09-02		73-09-02		73-09-02	
Sample ID #:		0004-SA		0002-SA		0004-SA		S2330		S2337		S3796		S3802	
Sample Date:		2/28/94		2/28/94		2/28/94		6/2/93		6/2/93		6/30/93		6/30/93	
Compound	CRDL Detection Limit														
Aluminum	200	1000		240		350		1180	J	407	J	1000	J	1040	
Antimony	60	60	U	60	U	60	U	18.0	U	180	U	18.0	U	18.0	U
Arsenic	10	5	U	5	U	5	U	4.0	UJ	4.0	U	4.0	U	4.0	U
Barium	200	39		16		17		204		186	J	258	J	251	
Beryllium	5	2	U	2	U	2	U	0.10	U	0.10	U	0.10	U	0.10	U
Cadmium	3	0.5	U	0.5	U	0.5	U	2.0	U	2.0	U	2.0	U	2.0	U
Calcium	5000	26700		25000		25600		58700		62200		73100		77900	
Chromium	10	8.9	J	10	U	10	U	30.2	J	7.2	J	12.4		8.6	J
Cobalt	50	10	U	10	U	10	U	3.0	U	3.0	U	3.0	U	3.0	U
Copper	5	12		5	U	5	U	11.2	U	3.0	U	4.2	J	3.6	J
Iron	100	1000	J	100	U	100	U	3140	J	3.0	U	122	J	15.9	J
Lead	3	68		1.8	J	3	U	11.7	UJ	1.0	U	10.6		8.7	
Magnesium	5000	1000		530		450		1350	J	413	J	720	J	892	J
Manganese	15	98		10	U	10	U	92.5	J	1.2	UJ	7.6	J	6.4	J
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	40	40	U	40	U	40	U	15.5	J	8.0	U	8.0	U	8.0	U
Potassium	5000	4400	J	4200	J	4200	J	11100	J	13100		10800		11600	
Selenium	5	5	U	5	UJ	5	U	3.0	UJ	3.0	UJ	3.0	U	3.0	U
Silver	10	10	U	10	U	10	U	4.0	UJ	4.0	U	4.0	UJ	4.0	U
Sodium	5000	4600	J	3800	J	5600		18900		20400		19100		18600	
Thallium	10	5	UJ	5	U	5	U	1.0	U	1.0	U	1.0	U	1.0	U
Vanadium	50	7.1	J	8.1	U	7.8	U	10.5	J	6.1	J	6.3	J	5.0	U
Zinc	20	29		20	U	4	U	20.5	UJ	2.0	U	2.6	U	6.5	J
Cyanide	5	NA		NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA	

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-25DI-03	W-25DI-03-F	W-25DI-04	W-25DI-04-F	W-07DI-03	W-07DI-03-F	W-01DI-05
Latitude:		42-52-39	42-52-39	42-52-39	42-52-39	42-52-45	42-52-45	42-52-46
Longitude:		73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-09-02	73-08-58
Sample ID #:		0003-SA	0003-SA	0005-SA	0005-SA	0009-SA	0009-SA	T9320
Sample Date:		12/02/93	12/02/93	3/2/94	3/2/94	11/30/93	11/30/93	7/05/94
Compound	CRDL Detection Limit							
Aluminum	200	410	50 J	1600	1300	9200	92 J	15800
Antimony	60	60 U	60 U	60 U	15 J	60 U	16 J	4.5 UJ
Arsenic	10	5 U	5 U	5 U	5 U	2.3 J	5 U	R
Barium	200	140	45	200	180	4000	3800	6210 J
Beryllium	5	2 U	2 U	2 U	2 U	2 U	2 U	18.4
Cadmium	3	0.5 UJ	0.5 U	0.5 U	0.5 U	0.3 J	0.1 U	1 UJ
Calcium	5000	35500	21700	107000	99700	587000	515000	18800
Chromium	10	23	11	140	17	29 J	28 U	165 J
Cobalt	50	56	10 U	7.9 J	10 U	10 U	10 U	62.6 J
Copper	5	71	5 U	11	5 U	19 U	9.5 U	167 J
Iron	100	20100	100 U	2400 J	9.3 U	9300	9.9 U	186000
Lead	3	7.1 J	3 U	26	2.1 J	34	1.2 U	114 J
Magnesium	5000	5900	5100	370 U	120 J	4500	22 U	8880
langanese	15	170	10 U	33	10	240	6.6 J	12500 J
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	29 J	40 U	180	40 U	40 U	40 U	743 J
Potassium	5000	3300 J	3100 J	10100	10100	400000	329000	3780 J
Selenium	5	5 UJ	5 UJ	5 U	5 UJ	10 U	10 UJ	R
Silver	10	10 U	10 U	10 U	10 U	10 U	5.6 J	1 U
Sodium	5000	4800 J	5000 U	12300	14300	238000	194000	2170 J
Thallium	10	5 U	5 U	5 U	5 U	5 UJ	10 U	6 J
Vanadium	50	10 U	10 U	7.6 J	4.1 U	49	10 U	43 J
Zinc	20	630	15 J	53 J	6.9 U	370	6 J	1420 J
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		W-01DI-05 BLDUP-1-5		W-01DI-05-F		W-01DI-05-F BLDUP-1-05-F		DICKINSON-01		DICKINSON-01-F		DICKINSON-02	
Latitude:		42-52-46		42-52-46		42-52-46		[2]		[2]		[2]	
Longitude:		73-08-58		73-08-58		73-08-58		[2]		[2]		[2]	
Sample ID #:		T9321		T9324		T9325		S2491		S2498		S3920	
Sample Date:		7/05/94		7/05/94		7/05/94		6/4/93		6/4/93		7/1/93	
Compound	CRDL Detection Limit												
Aluminum	200	13100		20	U	20	U	89.7	UJ	19.6	UJ	33.0	J
Antimony	60	4.5	UJ	8.4	U	9	U	18.0	U	18.0	U	18.0	U
Arsenic	10	R		1	U	1	U	4.0	U	4.0	U	4.0	U
Barium	200	4890	J	50.6	J	45.2	J	138	J	141	J	123	J
Beryllium	5	14.5		0.1	U	0.1	U	0.10	U	0.10	U	0.10	U
Cadmium	3	1	UJ	1	U	1	U	2.0	U	2.0	U	2.0	U
Calcium	5000	17200		14300		15700		96700		98900		91900	
Chromium	10	139	J	2	U	2	U	3.0	U	3.0	U	3.0	U
Cobalt	50	52.7	J	2	U	2	U	3.0	U	3.0	U	3.0	U
Copper	5	137	J	1	U	1	U	48.3	U	17.1	U	15.2	
Iron	100	142000		61.1	J	27.8	U	21.9	UJ	3.0	U	26.9	J
Lead	3	103	J	1	U	1	U	18.6	J	1.5	J	8.3	
Magnesium	5000	7980		5420		5960		24800		26100		24000	
Manganese	15	10600	J	369		286		1.0	U	1.0	U	1.4	J
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.20	U	0.20	U	0.20	U
Nickel	40	671	J	5.7	J	4.5	J	8.0	U	8.0	U	8.0	U
Potassium	5000	3350	J	1140	J	956	J	500	UJ	823	U	500	U
Selenium	5	R		1.2	J	1	UJ	3.0	UJ	3.0	U	3.0	U
Silver	10	1	U	1	U	1	U	4.0	U	4.0	U	4.0	U
Sodium	5000	1910	J	2750	J	2580	J	261000		272000		205000	
Thallium	10	6.5	J	1	UJ	1	U	1.2	J	1.0	U	1.0	U
Vanadium	50	33.4	J	1	U	1	U	5.0	U	5.8	J	5.0	U
Zinc	20	1160	J	21.8		105		5.6	UJ	2.2	UJ	2.5	U
Cyanide	5	NA		NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		NA		NA		NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA	

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		DICKINSON-02-F	DICKINSON-03	DICKINSON-03-F	DICKINSON-04	DICKINSON-04-F	DICKINSON-05
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]
Sample ID #:		S3928	0003-SA	0003-SA	0002-SA	0002-SA	T9405
Sample Date:		7/1/93	11/22/93	11/22/93	3/1/94	3/1/94	7/07/94
Compound	CRDL Detection Limit						
Aluminum	200	12.0 U	1200 U	100 U	100 U	100 U	NA
Antimony	60	18.0 U	60 U	60 U	60 U	60 U	NA
Arsenic	10	4.0 U	5 U	5 U	5 U	5 U	NA
Barium	200	133 J	120	130	150	140	NA
Beryllium	5	0.10 U	2 U	2 U	2 U	2 U	NA
Cadmium	3	2.0 U	0.33 J	0.5 UJ	0.5 U	0.5 U	NA
Calcium	5000	102000	99500	108000 J	126000	110000	NA
Chromium	10	3.0 U	5.3 J	10 U	10 U	10 U	NA
Cobalt	50	3.0 U	10 U	10 U	10 U	10 U	NA
Copper	5	13.1	30	11	40	32	NA
Iron	100	15.0 J	130	76 J	92 U	14 U	NA
Lead	3	1.0 U	18	4.6	3.6	3 U	2.8 J
Magnesium	5000	26400	23800	26000	30300	27500	NA
Manganese	15	1.0 U	10 U	10 U	10 U	10 U	NA
Mercury	0.2	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Nickel	40	8.0 U	40 U	40 U	40 U	40 U	NA
Potassium	5000	1310 J	2100 J	2300 J	2700 J	2300 J	NA
Selenium	5	3.0 U	5 UJ	5 UJ	5 U	5 UJ	NA
Silver	10	4.0 U	10 U	3.8 J	10 U	10 U	NA
Sodium	5000	223000	225000	251000 J	285000	255000	363000
Thallium	10	1.0 UJ	50 U	5 UJ	5 UJ	5 UJ	NA
Vanadium	50	9.2 J	10 U	10 U	10 U	4.1 U	NA
Zinc	20	2.0 U	59	19 J	19 U	23	NA
Cyanide	5	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		DICKINSON-05 BLDUP3-5	DICKINSON-05-F	DICKINSON-05-F BLDUP3-5-F	OLIN-01	OLIN-01-F	OLIN-02
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]
Sample ID #:		T9407	T9416	T9418	S2490	S2497	S3917
Sample Date:		7/07/94	7/07/94	7/07/94	6/5/93	6/5/93	7/1/93
Compound	CRDL Detection Limit						
Aluminum	200	NA	NA	NA	12.0 U	64 UJ	12.0 U
Antimony	60	NA	NA	NA	18.0 U	49 U	18.0 U
Arsenic	10	NA	NA	NA	4.0 UJ	4.0 U	4.0 U
Barium	200	NA	NA	NA	8.4 J	10.9 J	14.2 J
Beryllium	5	NA	NA	NA	0.10 U	1.8 U	0.10 U
Cadmium	3	NA	NA	NA	2.0 U	2.0 U	2.0 U
Calcium	5000	NA	NA	NA	17500	18100	19900
Chromium	10	NA	NA	NA	3.0 U	3.0 U	3.0 U
Cobalt	50	NA	NA	NA	3.0 U	3.0 U	3.0 U
Copper	5	NA	NA	NA	13.5 U	8.8 U	9.5
Iron	100	NA	NA	NA	3.0 U	3.0 U	8.7 J
Lead	3	NA	2.2 J	NA	3 UJ	1.0 U	1.0 U
Magnesium	5000	NA	NA	NA	7580	8200	8510
Manganese	15	NA	NA	NA	1.0 U	1.0 U	1.0 J
Mercury	0.2	NA	NA	NA	0.20 U	0.20 U	0.20 U
Nickel	40	NA	NA	NA	8.0 U	8.0 U	8.0 U
Potassium	5000	NA	NA	NA	500 UJ	2540 U	500 U
Selenium	5	NA	NA	NA	3.0 U	3.0 U	3.0 U
Silver	10	NA	NA	NA	4.0 U	7.6 U	4.0 U
Sodium	5000	306000	326000	304000	2910 U	1600 J	3060 U
Thallium	10	NA	NA	NA	1.0 U	1.0 U	1.0 U
Vanadium	50	NA	NA	NA	5.0 U	9.6 J	5.0 U
Zinc	20	NA	NA	NA	5.1 UJ	4.7 UJ	4.8 U
Cyanide	5	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		OLIN-02-F	OLIN-03	OLIN-03-F	OLIN-04	OLIN-04-F	RYSPG-01	RYSPG-01-F
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]	[2]
Sample ID #:		S3925	0001-SA	0001-SA	0003-SA	0003-SA	S2394	S2401
Sample Date:		7/1/93	11/23/93	11/23/93	3/1/94	3/1/94	6/3/93	6/3/93
Compound	CRDL Detection Limit							
Aluminum	200	12.0 U	100 U	100 U	100 U	100 U	12.0 U	62.1 UJ
Antimony	60	18.0 U	60 U	60 U	60 U	60 U	18.0 U	31.9 U
Arsenic	10	4.0 U	5 U	5 U	5 U	5 U	4.0 UJ	4.0 U
Barium	200	10.1 J	13	15	15	12	16.7 J	21.7 J
Beryllium	5	0.10 U	2 U	2 U	2 U	2 U	0.10 U	1.8 U
Cadmium	3	2.0 U	0.11 J	0.5 U	0.5 U	0.5 U	2.0 U	2.0 U
Calcium	5000	18600	19700	20900	21000	20900	9870	10800
Chromium	10	3.0 U	3.8 J	5.3 J	10 U	10 U	3.0 U	3.0 U
Cobalt	50	3.0 U	4.2 J	10 U	10 U	10 U	3.0 U	3.0 U
Copper	5	5.3	34	9	23	14	5.4 U	3.0 U
Iron	100	3.0 U	51 J	38 J	9.6 U	100 U	10.7 UJ	3.0 U
Lead	3	1.0 U	2.6 J	3 U	1.9 J	2.3 J	4.2 UJ	1.0 U
Magnesium	5000	8390	8300	8500	8700	9100	3970 J	4600 J
Manganese	15	1.0 U	10 U	10 U	10 U	10 U	1.0 U	1.0 U
Mercury	0.2	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U
Nickel	40	8.0 U	40 U	40 U	40 U	40 U	8.0 U	8.0 U
Potassium	5000	874 J	800 J	640 J	950 U	790 J	500 UJ	2870 U
Selenium	5	3.0 U	5 UJ	5 UJ	5 U	5 UJ	3.0 U	3.0 U
Silver	10	4.0 U	10 U	10 U	10 U	10 U	4.0 UJ	7 U
Sodium	5000	1650 J	2000 J	1800 J	4000 U	5000 U	5950	5270
Thallium	10	1.0 U	5 U	5 U	1.5 J	5 U	1.0 U	1.0 U
Vanadium	50	5.0 U	10 U	10 U	10 U	10 U	5.0 U	8.3 J
Zinc	20	2.0 U	37	15 J	8.5 U	10 U	10.2 UJ	3.6 UJ
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	NA	NA	NA

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		RYSPG-02	RYSPG-02-F	RYSPG-03	RYSPG-03 BLDUP#2-3	RYSPG-03-F	RYSPG-03-F BLDUP#2-3-F	RYDER SPRING-03
Latitude:		[2]	[2]	[2]	[2]	[2]	[2]	[2]
Longitude:		[2]	[2]	[2]	[2]	[2]	[2]	[2]
Sample ID #:		S3919	S3927	0002-SA	0006-SA	0002-SA	0006-SA	0009-SA
Sample Date:		7/1/93	7/1/93	11/22/93	11/22/93	11/22/93	11/22/93	11/16/93
Compound	CRDL Detection Limit							
Aluminum	200	12.0 U	12.0 U	100 U	100 U	100 U	100 U	100 U
Antimony	60	18.0 U	18.0 U	60 U	60 U	60 U	60 U	60 U
Arsenic	10	4.0 U	4.0 U	5 U	5 U	5 U	5 U	5 U
Barium	200	19.8 J	16.8 J	20	20	20	32	25
Beryllium	5	0.10 U	0.10 U	2 U	2 U	2 U	2 U	2 U
Cadmium	3	2.0 U	2.0 U	0.22 J	0.15 J	0.5 U	0.5 U	0.5 U
Calcium	5000	10500	10300	9100	9100	9500 J	19100 J	10400
Chromium	10	3.0 U	3.0 U	3.8 J	3.8 J	5.7 J	6.7 J	10 U
Cobalt	50	3.0 U	3.0 U	10 U	10 U	10 U	4.9 J	10 U
Copper	5	3.0 U	3.0 U	5.9	6.9	5 U	3.1 J	3.8 U
Iron	100	29.5 J	3.0 U	70 J	100	57 J	57 J	73 J
Lead	3	1.0 U	1.0 U	1.7 J	1.4 J	3 U	1.2 J	3 U
Magnesium	5000	4160 J	4380 J	3700	3700	3900	6000	4200
Manganese	15	1.0 U	1.0 U	10 U	10 U	10 U	10 U	4.1 J
Mercury	0.2	0.20 U	0.21	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	8.0 U	8.0 U	40 U	40 U	40 U	40 U	40 U
Potassium	5000	500 U	1250 J	1200 J	1100 J	1000 J	1200 J	1200 J
Selenium	5	3.0 U	3.0 U	5 U	5 UJ	5 UJ	5 UJ	5 U
Silver	10	4.0 U	4.0 U	10 U	10 U	10 U	3.6 J	3.3 J
Sodium	5000	4190 U	3370 J	2500 J	2500 J	2700 J	26900 J	1900 J
Thallium	10	1.0 U	1.0 U	5 U	5 U	5 U	5 UJ	5 U
Vanadium	50	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U
Zinc	20	2.4 U	2.0 U	15 J	29	24	14 J	24 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA	NA	NA	NA	NA
Hex Chromium [1]	10	20	NA	NA	NA	NA	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		RYDER SPRING-03-F		RYSPG-04		RYSPG-04-F		FEQBLK#1-1		FEQBLK#1-1-F		FEQBLK#2-1		FEQBLK#2-1-F	
Latitude:		[2]		[2]		[2]		NA		NA		NA		NA	
Longitude:		[2]		[2]		[2]		NA		NA		NA		NA	
Sample ID #:		0009-SA		0001-SA		0001-SA		S1865		S1869		S2003		S2008	
Sample Date:		11/16/93		3/1/94		3/1/94		5/24/93		5/24/93		5/26/93		5/26/93	
Compound	CRDL Detection Limit														
Aluminum	200	100	U	100	U	100	U	18.8	UJ	34.4	U	33.5	UJ	17.8	U
Antimony	60	18	J	60	U	13	J	18.0	UJ	29.2	J	18.0	U	18.0	U
Arsenic	10	5	U	5	U	5	U	R		4.0	U	4.0	UJ	4.0	U
Barium	200	18	J	19		18		2.0	U	2.0	U	2.0	U	2.0	U
Beryllium	5	2	U	2	U	2	U	0.10	U	0.10	U	0.10	UJ	0.10	U
Cadmium	3	0.5	U	0.5	U	0.5	U	2.0	U	2.0	U	2.0	U	2.0	U
Calcium	5000	10300		8900		9600		909	J	45.8	J	901	UJ	81.2	J
Chromium	10	10	U	10	U	10	U	3.0	U	3.0	U	3.0	U	3.0	U
Cobalt	50	10	U	10	U	10	U	3.0	U	3.0	U	3.0	U	3.0	U
Copper	5	5	U	5	U	3.9	U	3.0	U	3.0	U	6.4	UJ	3.0	U
Iron	100	100	U	100	U	12	U	31.9	J	3.0	U	46.5	U	3.0	U
Lead	3	3	U	3	U	3	U	1.5	J	1.0	U	4.7	UJ	1.0	U
Magnesium	5000	4200		3600		4000		49.8	UJ	35.7	U	48.6	U	30.7	U
Manganese	15	10	U	10	U	10	U	1.2	J	1.8	J	1.4	U	2.0	J
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.20	U	0.20	U	0.20	U	0.31	
Nickel	40	40	U	40	U	40	U	8.0	U	8.0	U	8.0	U	8.0	U
Potassium	5000	1400	J	1200	U	1300	J	500	UJ	1040	U	500	U	899	U
Selenium	5	5	U	5	U	5	U	R		3.0	UJ	R		3.0	U
Silver	10	3.7	J	10	U	10	U	4.0	U	4.0	J	4.0	U	4.0	U
Sodium	5000	4200	J	4300	U	3000	J	1340	J	153	J	1380	U	106	J
Thallium	10	5	U	5	U	5	U	1.0	UJ	1.0	UJ	1.0	U	1.0	U
Vanadium	50	10	U	10	U	10	U	5.0	U	5.2	U	5.0	U	5.0	U
Zinc	20	19	U	20	U	12	U	4.0	J	3.6	J	3.3	J	2.4	J
Cyanide	5	NA		NA		NA		5.0	U	NA		5.0	U	NA	
BOD5 (mg/l)	1	NA		NA		NA		6	UJ	NA		NA		NA	
Hardness (mg/l)	1	NA		NA		NA		10	U	NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		20	U	20	U	20	U	NA	

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[2] Location coordinates for these wells were not specified in the QAPP.

Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		PUMP FEQBLK#1-1	PUMP FEQBLK#1-1-F	FEQBLK#1-2	FEQBLK#1-2-F	FEQBLK#2-2	FEQBLK#2-2-F	FEQBLK#3-2
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S2329	S2336	S3344	S3350	S3451	S3465	S3797
Sample Date:		6/2/93	6/2/93	6/23/93	6/23/93	6/24/93	6/24/93	6/30/93
Compound	CRDL Detection Limit							
Aluminum	200	30.9 UJ	12.0 U	12.0 U	12.0 U	16.2 J	12.0 U	12.0 U
Antimony	60	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U
Arsenic	10	4.0 UJ	4.0 U	4.0 U	4.0 U	4.0 UJ	4.0 U	4.0 U
Barium	200	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Beryllium	5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Cadmium	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Calcium	5000	825 J	248 J	1110 J	21.0 U	1030 J	24.2 J	1120 U
Chromium	10	3.2 J	3.0 U	4.3 J	3.0 U	3.0 U	3.0 U	3.6 J
Cobalt	50	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Copper	5	34.6	25.9	8.1 U	3.0 U	3.0 U	3.0 U	3.0 U
Iron	100	46.6 J	25.6 J	7.7 J	3.0 U	33.8 J	3.7 J	5.3 J
Lead	3	3.0 J	1.0 U	2.1 J	1.0 U	1.0 U	1.0 U	1.0 U
Magnesium	5000	50.2 J	24.0 U	58.6 U	24.0 U	80.2 J	24.0 U	36.2 J
Manganese	15	3.2 J	4.5 J	1.0 U	1.0 U	1.5 J	1.0 U	1.4 J
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	40	8.0 U	9.4 J	8.0 U	8.0 U	8.0 UJ	8.0 U	8.0 U
Potassium	5000	500 UJ	500 UJ	500 U	500 U	500 U	500 U	500 U
Selenium	5	3.0 U	3.0 UJ	3.0 UJ	3.0 UJ	3.0 UJ	3.0 U	3.0 U
Silver	10	4.0 UJ	4.0 U	4.0 UJ	4.0 U	4.0 U	4.0 U	4.0 U
Sodium	5000	1140 J	173 J	1670 U	108 J	1610 J	75.2 J	1500 U
Thallium	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Zinc	20	19.5 J	16.3 J	4.9 U	2.0 U	18.5 J	2.0 U	7.2 J
Cyanide	5	7.0	NA	5.0 U	NA	NA	NA	NA
BOD5 (mg/l)	1	6 UJ	NA	6 UJ	NA	NA	NA	NA
Hardness (mg/l)	1	10 U	NA	3	NA	NA	NA	NA
Hex Chromium [1]	10	NA	NA	NA	NA	20 U	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		FEQBLK#4-2	FEQBLK#3-2-F	FEQBLK#4-2-F	EQBLK#3-1	EQBLK#3-1-F	EQBLK#3-3	EQBLK#3-3-F
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		S3798	S3803	S3804	0001-SA	0001-SA	0001-SA	0001-SA
Sample Date:		6/30/93	6/30/93	6/30/93	11/18/93	11/18/93	11/23/93	11/23/93
Compound	CRDL Detection Limit							
Aluminum	200	12.0 U	12.0 U	12.0 U	100 U	100 U	100 U	100 U
Antimony	60	18.0 U	18.0 U	18.0 U	60 U	19 J	60 U	60 U
Arsenic	10	4.0 U	4.0 U	4.0 U	5 U	5 U	5 U	5 U
Barium	200	2.0 U	2.0 U	2.0 U	2.6 J	10 U	10 U	10 U
Beryllium	5	0.10 U	0.10 U	0.10 U	2 U	2 U	2 U	2 U
Cadmium	3	2.0 U	2.0 U	2.0 U	0.66	0.29 J	0.25 J	5 U
Calcium	5000	849 U	38.2 J	21.0 U	740	900	220	210
Chromium	10	3.0 U	3.0 U	3.0 U	10 U	14	10 U	6.2 J
Cobalt	50	3.0 U	3.0 U	3.0 U	10 U	10 U	10 U	10 U
Copper	5	3.0 U	3.0 U	3.0 U	18 U	24 J	7.7 U	5 U
Iron	100	3.0 U	3.0 U	3.0 U	99 J	23 J	41 J	57 J
Lead	3	1.0 U	1.0 U	1.0 U	12	8.2	3.4	3 U
Magnesium	5000	24.0 U	24.0 U	24.0 U	48	87 J	22 J	200 U
anganese	15	1.0 U	1.0 U	1.0 U	10	9 J	11	10 U
Mercury	0.2	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	8.0 U	8.0 U	8.0 U	40 U	40 U	40 U	40 U
Potassium	5000	500 U	500 U	500 U	5000 U	800 J	5000 U	5000 U
Selenium	5	3.0 U	3.0 U	3.0 U	5 U	5 U	5 U	5 UJ
Silver	10	4.0 U	4.0 U	4.0 U	6.4 J	10 U	6.7 J	10 U
Sodium	5000	1200 U	77.2 J	88.6 J	5000 U	5000 U	5000 U	630 J
Thallium	10	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U
Vanadium	50	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U
Zinc	20	7.2 J	2.0 U	2.0 U	33 U	65 U	20 U	14 J
Cyanide	5	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	6	7.7	NA	NA	NA
Hardness (mg/l)	1	360	NA	560	2.1	2.6	NA	NA
Hex Chromium [1]	10	20 U	20 U	20 U	NA	NA	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		EQBLK#4-3	EQBLK#4-3-F	EQBLK#5-3	EQBLK#5-3-F	EQBLK#1-4	EQBLK#1-4-F	EQBLK#2-4
Latitude:		NA	NA	NA	NA	NA	NA	NA
Longitude:		NA	NA	NA	NA	NA	NA	NA
Sample ID #:		0007-SA	0007-SA	0007-SA	0007-SA	0007-SA	0007-SA	0001-SA
Sample Date:		11/23/93	11/23/93	11/30/93	11/30/93	2/25/94	2/25/94	3/3/94
Compound	CRDL Detection Limit							
Aluminum	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	60	60 U	24 J	60 U	60 U	60 U	60 U	60 U
Arsenic	10	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
Barium	200	2.6 J	10 U	10 U	10 U	1.2 J	10 U	10 U
Beryllium	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	3	0.5 U	0.5 U	0.5 U	0.15 J	0.5 U	0.5 U	0.5 U
Calcium	5000	420	260	200 U	110 J	290	120 U	690 U
Chromium	10	10 U	6.2 J	10 U	10 U	10 U	10 U	10 U
Cobalt	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	5	7.5 U	5 U	5 U	5 U	4.7 J	5 U	3.9 J
Iron	100	45 J	45 J	100 U	20 J	100 U	13 J	80 U
Lead	3	1.7 J	3 U	3 U	1.6 J	3 U	3 U	3 U
Magnesium	5000	200 U	63 J	200 U	18 J	200 U	74 U	180 U
Manganese	15	5.5 J	3.8 J	10 U	10 U	10 U	10 U	10 U
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	40 U	40 U	40 U	10 J	40 U	40 U	40 U
Potassium	5000	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Selenium	5	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U
Silver	10	7.8 J	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	5000	5000 U	700 J	5000 U	5000 U	5000 U	5000 U	5000 U
Thallium	10	5 U	5 U	5 U	5 UJ	5 U	1.4 J	5 U
Vanadium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	20	40 U	31	20 U	20 U	9.1 U	9 U	9.6 U
Cyanide	5	NA	NA	10 U	NA	10	NA	NA
BOD5 (mg/l)	1	NA	NA	NA	NA	2 U	NA	NA
Hardness (mg/l)	1	<1.8608	1.4 U	NA	NA	<1.56	1.4 U	NA
Hex Chromium [1]	10	20 U	NA	NA	NA	NA	NA	NA

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Table 14D

Ground Water Inorganic Analyses
Deep and Residential Wells
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:		EQBLK#2-4-F		EQBL1-5		EQBL1-5-F		EQBL3-5		EQBL3-5-F		EQUIP BLANK		EQUIP BLANK-F	
Latitude:		NA		NA		NA		NA		NA		NA		NA	
Longitude:		NA		NA		NA		NA		NA		NA		NA	
Sample ID #:		0001-SA		T9400		T9413		T9406		T9417		0005-SA		0005-SA	
Sample Date:		3/3/94		7/07/94		7/07/94		7/07/94		7/07/94		11/17/93		11/17/93	
Compound	CRDL Detection Limit														
Aluminum	200	100	U	20	U	20	U	NA		NA					
Antimony	60	60	U	2	UJ	14.5	U	NA		NA		100	U	100	U
Arsenic	10	5	U	R		1	U	NA		NA		60	U	15	J
Barium	200	10	U	1	U	1	U	NA		NA		5	U	5	U
Beryllium	5	2	U	0.1	U	0.1	U	NA		NA		3.3	J	10	U
Cadmium	3	0.5	U	1	UJ	1	U	NA		NA		2	U	2	U
Calcium	5000	240	U	47.8	U	64.9	U	NA		NA		0.19	J	0.2	J
Chromium	10	10	U	2	UJ	2	U	NA		NA		550		100	
Cobalt	50	10	U	2	U	2	U	NA		NA		10	U	8.8	J
Copper	5	8.4	U	1	U	1	U	NA		NA		10	U	10	U
Iron	100	17	U	7	U	1	U	NA		NA		5	U	5	U
Lead	3	3	U	1	J	1	U	NA		NA		130		17	J
Magnesium	5000	31	J	10	U	10	UJ	NA		NA		1.4	J	3	U
Manganese	15	10	U	1	U	1.7	J	NA		NA		41	J	200	U
Mercury	0.2	0.2	U	0.2	U	0.2	U	NA		NA		14		6.6	J
Nickel	40	40	U	1	U	1	U	NA		NA		0.2	U	0.2	U
Potassium	5000	5000	U	100	UJ	100	UJ	NA		NA		40	U	40	U
Selenium	5	5	U	R		1	UJ	NA		NA		5000	U	1400	J
Silver	10	10	U	1	U	1	U	NA		NA		5	U	10	U
Sodium	5000	5000	U	2	U	18.1	U	133	U	805	J	6.3	J	10	U
Thallium	10	1.4	J	1	UJ	1	U	NA		NA		5000	U	5000	U
Vanadium	50	10	U	1	U	1	U	NA		NA		5	U	5	U
Zinc	20	15	U	1	UJ	1	U	NA		NA		10	U	10	U
Cyanide	5	NA		NA		NA		NA		NA		130	U	26	U
BOD5 (mg/l)	1	NA		NA		NA		NA		NA					
Hardness (mg/l)	1	<1.56		NA		NA		NA		NA		NA		NA	
Hex Chromium [1]	10	NA		NA		NA		NA		NA		NA		NA	

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Adirondack Environmental Services.
[2] Location coordinates for these wells were not specified in the QAPP.

Table 14E

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:	W-01S1-03	W-01S1-04	W-02-03	W-02-03 BLDUP#4-3	W-03-03	W-04S-03	W-05-03
Latitude:	42-52-44	42-52-44	42-52-39	42-52-39	42-52-38	42-52-38	42-52-39
Longitude:	73-08-58	73-08-58	73-09-01	73-09-01	73-09-00	73-09-01	73-09-00
Sample ID #:	0001-SA	0004-SA	0001-SA	0004-SA	0005-SA	0003-SA	0004-SA
Sample Date:	11/22/93	2/24/94	11/30/93	11/30/93	11/29/93	11/29/93	11/29/93
Detection Limit							
TOC [1]	2.4	1.2	6400	6000	4200	13.2	1600

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
NA - Not Applicable.
[1] Subcontracted to Adirondack Environmental Services.

Table 14E

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:	W-06S-03	W-01-4	W-01B-03	W-01B-04	W-04SI-03	W-04SI-04	W-04DI-03
Latitude:	42-52-38	42-52-46	42-52-44	42-52-44	42-52-38	42-52-38	42-52-38
Longitude:	73-09-01	73-08-55	73-08-58	73-08-58	73-09-00	73-09-00	73-09-00
Sample ID #:	0007-SA	0001-SA	0004-SA	0002-SA	0010-SA	0001-SA	0001-SA
Sample Date:	11/29/93	2/24/94	12/02/93	3/3/94	11/30/93	3/2/94	12/01/93
Detection Limit							
TOC [1]	2600	1.9	1200	1 U	1 U	1 U	1200

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
NA - Not Applicable.
[1] Subcontracted to Adirondack Environmental Services.

Table 14E

Ground Water Total Organic Carbons
Ground Water Samples
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

LOCATION/DESCRIPTION:	W-04DI-04	W-04B-03	W-04B-04	W-04B-04 BLDUP-1-4	EQBLK#3-1	EQBLK#1-4
Latitude:	42-52-38	42-52-38	42-52-38	42-52-38	NA	NA
Longitude:	73-09-00	73-09-00	73-09-00	73-09-00	NA	NA
Sample ID #:	0003-SA	0006-SA	0004-SA	0004-SA	0001-SA	0007-SA
Sample Date:	3/2/94	12/01/93	3/2/94	3/2/94	11/18/93	2/25/94
Detection Limit						
TOC [1]	1 U	1000 U	1 U	1 U	4100	1 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
NA - Not Applicable.
[1] Subcontracted to Adirondack Environmental Services.

Table 15A

Surface Water Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-01B-01	SW-08-02	SW-13-02	SW-02-01	SW-09-01	SW-09-02	SW-10-01	SW-10-02
Latitude:		42-52-40	42-52-43	42-52-36	42-52-38	42-52-40	42-52-40	42-52-41	42-52-41
Longitude:		73-08-59	73-08-57	73-09-02	73-09-00	73-09-00	73-09-00	73-08-59	73-08-59
Sample ID #:		Q5899	S0006	S0009	Q5902	Q5903	R9839	Q5904	S0007
Sample Date:		9/23/92	4/15/93	4/15/93	9/23/92	9/23/92	4/14/93	9/23/92	4/15/93
Compound	DETECTION LIMIT								
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	10 U	10 U	10 U	190	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	12	11	10 U	10 U	10 U
Carbon disulfide	5	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U	1300	5 U	8	10	6
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	R	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
',2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
richloroethene	5	5 U	5 U	5 U	420	5 U	6	12	19
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	11	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	57	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	18	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15A

Surface Water Organic Volatile Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-11-01	SW-11-02	SW-12-01	SW-12-01 BLDUP	SW-12-02	SW-03-01	SW-04-01	SW-04-02
Latitude:		42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-37	42-52-35	42-52-35
Longitude:		73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-02	73-09-08	73-09-08
Sample ID #:		Q5901	R9837	Q5900	Q5906	R9836	Q5870	Q5873	R9663
Sample Date:		9/23/92	4/14/93	9/23/92	9/23/92	4/14/93	9/22/92	9/22/92	4/13/93
Compound	DETECTION LIMIT								
Chloromethane	10	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	290	170	130	10 U	10 U	49	10 U	10 U
Chloroethane	10	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	12	20 U	10 U	10 U	10 U	5 J	10 U	10 U
Carbon disulfide	5	5 U	10 U	5 U	5 U	5 U	230	6	5 U
1,1-Dichloroethene	5	5 U	10 U	5 U	5 U	5 U	2 J	5 U	5 U
1,1-Dichloroethane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	770	240	710	710	13	560	5 U	5
Chloroform	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	R	R	R
1,1,1-Trichloroethane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	10 U	20 U	10 U	10 U	10 U	5 U	10 U	10 U
Bromodichloromethane	5	5 U	10	5 U	5 U	5 U	5 U	5 U	5 U
,2-Dichloropropane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
s-1,3-Dichloropropene	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	390	67	220	230	9	140	5 U	5 U
Dibromochloromethane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	14 J	20 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	50	11	28	5 U	5 U	17	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	17	10 U	7	5 U	5 U	2 J	5 U	5 U
Chlorobenzene	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15A

Surface Water Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-04-02 BLDUP	SW-05-01	SW-05-02	SW-07-01	SW-07-02	SW-14-01	SW-14-02	QC TR BK
Latitude:		42-52-35	42-52-33	42-52-33	42-52-34	42-52-34	42-52-37	42-52-37	NA
Longitude:		73-09-08	73-09-15	73-09-15	73-09-13	73-09-13	73-09-03	73-09-03	NA
Sample ID #:		R9664	Q5778	R9666	Q5871	R9665	Q5872	R9840	Q5780
Sample Date:		4/13/93	9/21/92	4/13/93	9/22/92	4/13/93	9/22/92	14/93	9/21/92
Compound	DETECTION LIMIT								
Chloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	10 U	10 U	10 U	10 U	10 U	15 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	5 J	10 U	10 U
Carbon disulfide	5	5 U	33	5 U	5 U	5 U	17	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5	5 U	5 U	5 U	5 U	220	11	5 U
Chloroform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	R	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	50	8	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	5 U	7	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15A

Surface Water Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		QC TR BK	QC TR BK	QC TR BK
Latitude:		NA	NA	NA
Longitude:		NA	NA	NA
Sample ID #:		R9842	Q5876	Q5909
Sample Date:		4/14/93	9/22/92	9/23/92
Compound	DETECTION LIMIT			
Chloromethane	10	10 U	10 U	10 U
Bromomethane	10	10 U	10 U	10 U
Vinyl chloride	10	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U
Acetone	10	10 U	10 U	10 U
Carbon disulfide	5	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	5 U	5 U	5 U
Chloroform	5	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U
2-Butanone	10	R	R	R
1,1,1-Trichloroethane	5	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U
Vinyl acetate	10	10 U	10 U	10 U
Bromodichloromethane	5	5 U	5 U	5 U
,2-Dichloropropane	5	5 U	5 U	5 U
is-1,3-Dichloropropene	5	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U
Bromoform	5	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U
Tetrachloroethene	5	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U
Xylenes (total)	5	5 U	5 U	5 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15B

Surface Water Organic Volatile Analyses – Method 524.2
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-11-03	SW-12-03	SW-03-03	SW-04-03	SW-05-03	SW-06-03	SW-07-03	SW-14-03
Latitude:		42-52-39	42-52-38	42-52-37	42-52-35	42-52-33	42-52-34	42-52-34	42-52-37
Longitude:		73-09-00	73-09-01	73-09-02	73-09-08	73-09-15	73-09-13	73-09-13	73-09-03
Sample ID #:		9335938	9335939	9335933	9335934	9335935	9335936	9335937	9935940
Sample Date:		11/17/93	11/17/93	11/17/93	11/16/93	11/16/93	11/16/93	11/16/93	11/17/93
Compound	DETECTION LIMIT								
Dichlorodifluoromethane	1	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	5	R	R	R	R	R	R	R	R
1,1-Dichloroethene	1	2	2	1	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1	2	2	1	1 U	1 U	1 U	1 U	1
2,2-Dichloropropane	1	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	1	7	110	90	8	1 U	1 U	1 U	70
Dibromomethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	30	22	2	1 U	1 U	1 U	17
Toluene	1	2	1	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2/4-Chlorotoluene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
t-Butylbenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	1	140	38	21	1 U	1 U	1 U	1 U	13
Acetone	5	R	R	R	R	R	R	R	R
Methylene chloride	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	1	1 U	1 U	1 U	1 UJ	1 U	1 UJ	1 U	1 U
1,1-Dichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	1	190	260	210	19	1 U	1 U	2	170
Chloroform	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15B

Surface Water Organic Volatile Analyses – Method 524.2
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-11-03	SW-12-03	SW-03-03	SW-04-03	SW-05-03	SW-06-03	SW-07-03	SW-14-03
Latitude:		42-52-39	42-52-38	42-52-37	42-52-35	42-52-33	42-52-34	42-52-34	42-52-37
Longitude:		73-09-00	73-09-01	73-09-02	73-09-08	73-09-15	73-09-13	73-09-13	73-09-03
Sample ID #:		9335938	9335939	9335933	9335934	9335935	9335936	9335937	9935940
Sample Date:		11/17/93	11/17/93	11/17/93	11/16/93	11/16/93	11/16/93	11/16/93	11/17/93
Compound	DETECTION LIMIT								
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	5	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 U	5 UJ	5 U
1,1,1,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	1	1	3	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	1	0.5 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	1	0.7 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p-Isopropyltoluene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Dibromo-3-Chloropropa	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15B

Surface Water Organic Volatile Analyses – Method 524.2
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-15-03	SW-16-03	SW-17-03	SW-17-04	SW-17-03 BLDUP-1-3	QCTRIP
Latitude:		42-52-36	42-52-33	42-52-33	42-52-33	42-52-33	NA
Longitude:		73-09-04	73-09-16	73-09-17	73-09-17	73-09-17	NA
Sample ID #:		9335941	9335942	9335943	0025-001	9335944	9335948
Sample Date:		11/16/93	11/16/93	11/16/9	2/22/94	11/16/93	11/16/93
Compound	DETECTION LIMIT						
Dichlorodifluoromethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Bromomethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Chloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Trichlorofluoromethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
2-Butanone	5	R	R	R	0.5 U	R	R
1,1-Dichloroethene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
trans-1,2-Dichloroethene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
2,2-Dichloropropane	1	1 UJ	1 UJ	1 UJ	0.5 U	1 UJ	1 UJ
Bromodichloromethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,1,1-Trichloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Carbon tetrachloride	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Trichloroethene	1	40	1 U	1 U	1.1	1 U	1 U
Dibromomethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
cis-1,3-Dichloropropene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Dibromochloromethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Tetrachloroethene	1	10	1 U	1 U	0.5 U	1 U	1 U
oluene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
hlorobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
ethylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Bromoform	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,2,3-Trichloropropane	1	1 U	1 U	1 U	1.0 U	1 U	1 U
Bromobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
2/4-Chlorotoluene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
t-Butylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
sec-Butylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,3-Dichlorobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,2-Dichlorobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
n-Butylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,2,4-Trichlorobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Chloromethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Vinyl chloride	1	4	1 U	1 U	0.5 U	1 U	1 U
Acetone	5	R	R	R	0.5 U	R	R
Methylene chloride	1	1 U	1 U	1 U	1.0 U	1 U	1 U
Carbon disulfide	1	1 U	1 UJ	1 UJ	0.5 U	1 UJ	1 U
1,1-Dichloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
cis-1,2-Dichloroethene	1	100	1 U	1 U	2.6 U	100	1 U
Chloroform	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,2-Dichloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,1-Dichloropropene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
trans-1,3-Dichloropropene	1	1 U	1 U	1 U	0.5 U	1 U	1 U

NOTES: Valuee reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 15B

Surface Water Organic Volatile Analyses – Method 524.2
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		SW-15-03	SW-16-03	SW-17-03	SW-17-04	SW-17-03 BLDUP-1-3	QCTRIP
Latitude:		42-52-36	42-52-33	42-52-33	42-52-33	42-52-33	NA
Longitude:		73-09-04	73-09-16	73-09-17	73-09-17	73-09-17	NA
Sample ID #:		9335941	9335942	9335943	0025-001	9335944	9335948
Sample Date:		11/16/93	11/16/93	11/16/93	2/22/94	11/16/93	11/16/93
Compound	DETECTION LIMIT						
1,2-Dichloropropane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,3-Dichloropropane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
4-Methyl-2-pentanone	5	5 U	5 U	5 U	0.5 U	5 U	5 U
1,2-Dibromoethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
2-Hexanone	5	5 U	5 U	5 U	0.5 U	5 U	5 U
1,1,1,2-Tetrachloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Xylenes (total)	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Isopropylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
n-Propylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,3,5-Trimethylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,2,4-Trimethylbenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
p-Isopropyltoluene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,4-Dichlorobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Styrene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
2-Dibromo-3-Chloropropa	1	1 U	1 U	1 U	0.5 U	1 U	1 U
apthalene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
Hexachlorobutadiene	1	1 U	1 U	1 U	0.5 U	1 U	1 U
1,2,3-Trichlorobenzene	1	1 U	1 U	1 U	0.5 U	1 U	1 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 16

Surface Water Volatile Organic Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-01B-01	SW-01B-02	SW-01B-02 BLDUP	SW-02-01	SW-02-02	SW-10-01	SW-10-01 BLDUP	SW-03-01
Latitude:		42-52-40	42-52-40	42-52-40	42-52-38	42-52-38	42-52-41	42-52-41	42-52-37
Longitude:		73-08-59	73-08-59	73-08-59	73-09-00	73-09-00	73-08-59	73-08-59	73-09-02
Sample ID #:		Q6283	S0008	S0023	Q6284	R9838	Q6289	Q6288	Q6285
Sample Date:		9/29/92	4/15/93	4/15/93	9/29/92	4/14/93	9/29/92	9/29/92	9/29/92
Compound	Detection Limit								
Dichlorodifluoromethane	5	1.0 U	R	R	21.0 J	R	1.0 UJ	1.0 U	4.0 J
Bromomethane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Acetone	5	R	R	R	4.0 J	R	R	R	2.0 J
Carbon Disulfide	5	0.5 J	R	R	2.0 J	R	1.0	0.5 U	0.5 U
1,1-Dichloroethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	R	R	2600.0	10.0 J	8.0	77.0	780.0 J
2,2-Dichloropropane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Bromochloromethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	5	0.5 U	R	R	0.6	R	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	R	R	920.0	7.0 J	10.0	24.0	270.0 J
Dibromomethane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	5	2.0 U	R	R	3.0	R	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
is-1,3-Dichloropropene	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
Dibromochloromethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,2-Dibromomethane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	0.5 U	R	R	0.8	R	0.5 U	0.5 U	0.5 U
o-Xylene	5	0.5 U	R	R	1.0	R	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
Isopropylbenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
2/4-Chlorotoluene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	R	R	3.0	R	1.0 U	1.0 U	1.0 U
p-Isopropyltoluene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Styrene	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	5	R	R	R	R	R	R	R	R
Napthalene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 16

Surface Water Volatile Organic Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-01B-01	SW-01B-02	SW-01B-02 BLDUP	SW-02-01	SW-02-02	SW-10-01	SW-10-01 BLDUP	SW-03-01
Latitude:		42-52-40	42-52-40	42-52-40	42-52-38	42-52-38	42-52-41	42-52-41	42-52-37
Longitude:		73-08-59	73-08-59	73-08-59	73-09-00	73-09-00	73-08-59	73-08-59	73-09-02
Sample ID #:		Q6283	S0008	S0023	Q6284	R9838	Q6289	Q6288	Q6285
Sample Date:		9/29/92	4/15/93	4/15/93	9/29/92	4/14/93	9/29/92	9/29/92	9/29/92
1,2,3-Trichlorobenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Chloromethane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Vinyl Chloride	5	1.0 U	R	R	490.0	2.0 J	1.0 U	4.0	120.0 J
Trichlorofluoromethane	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	0.5 U	R	R	8.0	R	0.5 U	0.5 U	2.0
trans-1,2-Dichloroethene	5	0.5 U	R	R	23.0	R	0.5 U	0.6	5.0
2-Butanone	5	R	R	R	R	R	R	R	R
Chloroform	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	5	0.5 U	R	R	0.7	R	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
Bromodichloromethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
2-Hexanone	5	2.0 U	R	R	2.0 U	R	2.0 U	2.0 U	2.0 U
Benzene	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	5	1.0 U	R	R	1.0 U	R	R U	1.0 U	1.0 U
etrachloroethene	5	0.5 U	R	R	97.0	4.0 J	0.5 U	3.0	19.0 J
Toluene	5	0.5 U	R	R	18.0	R	0.5 U	0.5 U	3.0
1,1,1,2-Tetrachloroethane	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
m/p-Xylene	5	0.5 U	R	R	2.0	R	0.5 U	0.5 U	0.5 U
Bromoform	5	0.5 U	R	R	0.5 U	R	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	1	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Bromobenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
t-Butylbenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	5	1.0 U	R	R	1.0 U	R	1.0 U	1.0 U	1.0 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 16

Surface Water Volatile Organic Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-03-02	SW-06-01	SW-06-02	SW-15-01	SW-15-02	QC TR BK	QC TR BK	QC TR BK
Latitude:		42-52-37	42-52-33	42-52-33	42-52-36	42-52-36	NA	NA	NA
Longitude:		73-09-02	73-09-13	73-09-13	73-09-04	73-09-04	NA	NA	NA
Sample ID #:		R9835	Q6286	R9667	Q6287	R9841	Q6290	R9668	R9842
Sample Date:		4/14/93	9/29/92	4/13/93	9/29/92	4/14/93	9/29/92	4/13/93	4/14/93
Compound	Detection Limit								
Dichlorodifluoromethane	5	R	1.0 UJ	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Bromomethane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Chloroethane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Acetone	5	R	R	3.0 J	R	R	R	5.0 U	R
Carbon Disulfide	5	R	0.5 U	1.0 U	1.0 J	R	0.5 U	1.0 U	R
1,1-Dichloroethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
cis-1,2-Dichloroethene	5	10.0 J	0.5 U	1.0 U	72.0	8.0 J	0.5 U	1.0 U	R
2,2-Dichloropropane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Bromochloromethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,1,1-Trichloroethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Carbon Tetrachloride	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Trichloroethene	5	8.0 J	0.5 U	1.0 U	23.0	6.0 J	0.5 U	1.0 U	R
Dibromomethane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
4-Methyl-2-Pentanone	5	R	2.0 U	5.0 U	2.0 U	R	2.0 U	5.0 U	R
1,1,2-Trichloroethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
is-1,3-Dichloropropene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Dibromochloromethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,2-Dibromomethane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Chlorobenzene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Ethylbenzene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
o-Xylene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,1,2,2-Tetrachloroethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Isopropylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
2/4-Chlorotoluene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
1,3,5-Trimethylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
1,2,4-Trimethylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
p-Isopropyltoluene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
1,4-Dichlorobenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Styrene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,2-Dibromo-3-Chloropropane	5	R	R	1.0 U	R	R	R	1.0 U	R
Napthalene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 16

Surface Water Volatile Organic Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-03-02	SW-06-01	SW-06-02	SW-15-01	SW-15-02	QC TR BK	QC TR BK	QC TR BK
Latitude:		42-52-37	42-52-33	42-52-33	42-52-36	42-52-36	NA	NA	NA
Longitude:		73-09-02	73-09-13	73-09-13	73-09-04	73-09-04	NA	NA	N
Sample ID #:		R9835	Q6286	R9667	Q6287	R9841	Q6290	R9668	R9842
Sample Date:		4/14/93	9/29/92	4/13/93	9/29/92	4/14/93	9/29/92	4/13/93	4/14/93
1,2,3-Trichlorobenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Chloromethane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Vinyl Chloride	5	2.0 J	1.0 U	1.0 U	4.0	2.0 J	1.0 U	1.0 U	R
Trichlorofluoromethane	5	R	1.0 U	1.0 U	1.0 U	R	1.0	1.0 U	R
Methylene Chloride	5	R	0.5 U	1.0 U	0.5 U	R	1.0 J	1.0 U	R
1,1-Dichloroethene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
trans-1,2-Dichloroethene	5	R	0.5 U	1.0 U	0.6	R	0.5 U	1.0 U	R
2-Butanone	5	R	R	5.0 U	R	R	R	5.0 U	R
Chloroform	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,2-Dichloroethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,1-Dichloropropene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
trans-1,3-Dichloropropene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,2-Dichloropropane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Bromodichloromethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
2-Hexanone	5	R	2.0 U	5.0 U	2.0 U	R	2.0 U	5.0 U	R
Benzene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,3-Dichloropropane	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Tetrachloroethene	5	4.0 J	0.5 U	1.0 U	3.0	3.0 J	0.5 U	1.0 U	R
Toluene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,1,1,2-Tetrachloroethane	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
m/p-Xylene	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
Bromoform	5	R	0.5 U	1.0 U	0.5 U	R	0.5 U	1.0 U	R
1,2,3-Trichloropropane	1	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Bromobenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
n-Propylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
t-Butylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
sec-Butylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
1,3-Dichlorobenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
1,2-Dichlorobenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
n-Butylbenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
1,2,4-Trichlorobenzene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R
Hexachlorobutadiene	5	R	1.0 U	1.0 U	1.0 U	R	1.0 U	1.0 U	R

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NA – Not Applicable.
R – Unusable.
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UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 16

Surface Water Volatile Organic Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		QC TR BK		TR BK	
Latitude:		NA		NA	
Longitude:		NA		NA	
Sample ID #:		S0010		0003–005	
Sample Date:		4/15/93		3/1/94	
Compound	Detection Limit				
Dichlorodifluoromethane	5	R		0.5	U
Bromomethane	5	R		0.5	U
Chloroethane	5	R		0.5	U
Acetone	5	R		0.5	U
Carbon Disulfide	5	R		0.5	U
1,1–Dichloroethane	5	R		0.5	U
cis–1,2–Dichloroethene	5	R		0.5	U
2,2–Dichloropropane	5	R		0.5	U
Bromochloromethane	5	R		0.5	U
1,1,1–Trichloroethane	5	R		0.5	U
Carbon Tetrachloride	5	R		0.5	U
Trichloroethene	5	R		0.5	U
Dibromomethane	5	R		0.5	U
4–Methyl–2–Pentanone	5	R		0.5	U
1,1,2–Trichloroethane	5	R		0.5	U
is–1,3–Dichloropropene	5	R		0.5	U
ibromochloromethane	5	R		0.5	U
1,2–Dibromomethane	5	R		0.5	U
Chlorobenzene	5	R		0.5	U
Ethylbenzene	5	R		0.5	U
o–Xylene	5	R		0.5	U
1,1,2,2–Tetrachloroethane	5	R		0.5	U
Isopropylbenzene	5	R		0.5	U
2/4–Chlorotoluene	5	R		0.5	U
1,3,5–Trimethylbenzene	5	R		0.5	U
1,2,4–Trimethylbenzene	5	R		0.5	U
p–Isopropyltoluene	5	R		0.5	U
1,4–Dichlorobenzene	5	R		0.5	U
Styrene	5	R		0.5	U
1,2–Dibromo–3–Chloropropane	5	R		0.5	U
Napthalene	5	R		0.5	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 16

Surface Water Volatile Organic Analyses – Method 524.2 [1]
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		QC TR BK	TR BK	
Latitude:		NA	NA	
Longitude:		NA	NA	
Sample ID #:		S0010	0003-005	
Sample Date:		4/15/93	3/1/94	
1,2,3-Trichlorobenzene	5	R	0.5	U
Chloromethane	5	R	0.5	U
Vinyl Chloride	5	R	0.5	U
Trichlorofluoromethane	5	R	0.5	U
Methylene Chloride	5	R	1.1	U
1,1-Dichloroethene	5	R	0.5	U
trans-1,2-Dichloroethene	5	R	0.5	U
2-Butanone	5	R	0.5	U
Chloroform	5	R	0.5	U
1,2-Dichloroethane	5	R	0.5	U
1,1-Dichloropropene	5	R	0.5	U
trans-1,3-Dichloropropene	5	R	0.5	U
1,2-Dichloropropane	5	R	0.5	U
Bromodichloromethane	5	R	0.5	U
2-Hexanone	5	R	0.5	U
Benzene	5	R	0.5	U
1,3-Dichloropropane	5	R	0.5	U
Tetrachloroethene	5	R	0.5	U
Toluene	5	R	0.5	U
1,1,1,2-Tetrachloroethane	5	R	0.5	U
m/p-Xylene	5	R	0.5	U
Bromoform	5	R	0.5	U
1,2,3-Trichloropropane	1	R	1	U
Bromobenzene	5	R	0.5	U
n-Propylbenzene	5	R	0.5	U
t-Butylbenzene	5	R	0.5	U
sec-Butylbenzene	5	R	0.5	U
1,3-Dichlorobenzene	5	R	0.5	U
1,2-Dichlorobenzene	5	R	0.5	U
n-Butylbenzene	5	R	0.5	U
1,2,4-Trichlorobenzene	5	R	0.5	U
Hexachlorobutadiene	5	R	0.5	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 17

Surface Water Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-01B-01	SW-01B-02	SW-08-02	SW-13-02	SW-02-01	SW-02-02	SW-09-01	SW-09-02
Latitude		42-52-40	42-52-40	42-52-43	42-52-36	42-52-38	42-52-38	42-52-40	42-52-40
Longitude:		73-08-59	73-08-59	73-08-57	73-09-02	73-09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		Q5899	S0008	S0006	S0009	Q5902	R9838	Q5903	R9839
Sample Date:		9/23/92	4/15/93	4/15/93	4/15/93	9/23/92	4/14/93	9/23/92	4/14/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	9 U	10 U	10 U	10 U	9 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	9 U	10 U	10 U	10 U	9 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 17

Surface Water Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-01B-01	SW-01B-02	SW-08-02	SW-13-02	SW-02-01	SW-02-02	SW-09-01	SW-09-02
Latitude		42-52-40	42-52-40	42-52-43	42-52-36	42-52-38	42-52-38	42-52-40	42-52-40
Longitude:		73-08-59	73-08-59	73-08-57	73-09-02	7 -09-00	73-09-00	73-09-00	73-09-00
Sample ID #:		Q5899	S0008	S0006	S0009	Q5902	R9838	Q5903	R9839
Sample Date:		9/23/92	4/15/93	4/15/93	4/15/93	9/23/92	4/14/93	9/23/92	4/14/93
2,4-Dinitrophenol	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	50 U	50 U	52 U	50 U	50 U	50 U	50 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	50 U	50 U	52 U	25 U	50 U	25 U	50 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
'yrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3utylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	20 U	21 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		20 J	NA	110 J	11 J	NA	11 J	NA	37 J

NOTES:
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Table 17

Surface Water Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-10-01	SW-10-02	SW-11-01	SW-11-02	SW-12-01	SW-12-01 BLDUP	SW-12-02	SW-03-01
Latitude		42-52-41	42-52-41	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-37
Longitude:		73-08-59	73-08-59	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-02
Sample ID #:		Q5904	S0007	Q5901	R9837	Q5900	Q5906	R9836	Q5870
Sample Date:		9/23/92	4/15/93	9/23/92	4/14/93	9/23/92	9/23/92	4/14/93	9/22/92
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
enzoic acid	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	9 U	10 U	9 U	10 U	9 U	9 U	10 U	9 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	9 U	10 U	9 U	10 U	9 U	9 U	10 U	9 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 17

Surface Water Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-10-01	SW-10-02	SW-11-01	SW-11-02	SW-12-01	SW-12-01 BLDUP	SW-12-02	SW-03-01
Latitude		42-52-41	42-52-41	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-37
Longitude:		73-08-59	73-08-59	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-02
Sample ID #:		Q5904	S0007	Q5901	R9837	Q5900	Q5906	R9836	Q5870
Sample Date:		9/23/92	4/15/93	9/23/92	4/14/93	9/23/92	9/23/92	4/14/93	9/22/92
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		NA	28 J	10 J	NA	NA	19 J	NA	141 J

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 17

Surface Water Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-03-02	SW-04-01	SW-04-02	SW-04-02 BLDUP	SW-05-01	SW-05-02	SW-07-01	SW-07-02
Latitude		42-52-37	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33	42-52-34	42-52-34
Longitude:		73-09-02	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15	73-09-13	73-09-13
Sample ID #:		R9835	Q5873	R9663	R9664	Q5778	R9666	Q5871	R9665
Sample Date:		4/14/93	9/22/92	4/13/93	4/13/93	9/21/92	4/13/93	9/22/92	4/13/93
Compound	Detection Limit								
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	9	10 U	9 U	10 U	10 U	9 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	10 U	9 U	10 U	10 U	9 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 17

Surface Water Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-03-02	SW-04-01	SW-04-02	SW-04-02 BLDUP	SW-05-01	SW-05-02	SW-07-01	SW-07-02
Latitude		42-52-37	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33	42-52-34	42-52-34
Longitude:		73-09-02	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15	73-09-13	73-09-13
Sample ID #:		R9835	Q5873	R9663	R9664	Q5778	R9666	Q5871	R9665
Sample Date:		4/14/93	9/22/92	4/13/93	4/13/93	9/21/92	4/13/93	9/22/92	4/13/93
2,4-Dinitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	50	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
N-Nitrosodiphenylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	50 U	25 U	50 U	50 U	25 U	50 U	25 U	50 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total TICs		291 J	NA	25 J	303 J	NA	18 J	553 J	97 J

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 17

Surface Water Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-14-01		SW-14-02	
Latitude		42-52-37		42-52-37	
Longitude:		73-09-03		73-09-03	
Sample ID #:		Q5872		R9840	
Sample Date:		9/22/92		4/14/93	
Compound	Detection Limit				
Phenol	10	10	U	10	U
bis(2-Chloroethyl)ether	10	10	U	10	U
2-Chlorophenol	10	10	U	10	U
1,3-Dichlorobenzene	10	10	U	10	U
1,4-Dichlorobenzene	10	10	U	10	U
Benzyl alcohol	10	10	U	10	U
1,2-Dichlorobenzene	10	10	U	10	U
2-Methylphenol	10	10	U	10	U
bis(2-Chloroisopropyl)ether	10	10	U	10	U
4-Methylphenol	10	10	U	10	U
N-Nitroso-di-n-propylamine	10	10	U	10	U
Hexachloroethane	10	10	U	10	U
Nitrobenzene	10	10	U	10	U
Isophorone	10	10	U	10	U
2-Nitrophenol	10	10	U	10	U
,4-Dimethylphenol	10	10	U	10	U
Benzoic acid	50	50	U	50	U
bis(2-Chloroethoxy)methane	10	10	U	10	U
2,4-Dichlorophenol	10	10	U	10	U
1,2,4-Trichlorobenzene	10	10	U	10	U
Naphthalene	10	10	U	10	U
4-Chloroaniline	10	10	U	10	U
Hexachlorobutadiene	9	9	U	10	U
4-Chloro-3-methylphenol	10	10	U	10	U
2-Methylnaphthalene	10	10	U	10	U
Hexachlorocyclopentadiene	9	9	U	10	U
2,4,6-Trichlorophenol	10	10	U	10	U
2,4,5-Trichlorophenol	50	50	U	50	U
2-Chloronaphthalene	10	10	U	10	U
2-Nitroaniline	50	50	U	50	U
Dimethylphthalate	10	10	U	10	U
Acenaphthylene	10	10	U	10	U
2,6-Dinitrotoluene	10	10	U	10	U
3-Nitroaniline	50	50	U	50	U
Acenaphthene	10	10	U	10	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 17

Surface Water Semi-volatile Organic Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-14-01		SW-14-02	
Latitude		42-52-37		42-52-37	
Longitude:		73-09-03		73-09-03	
Sample ID #:		Q5872		R9840	
Sample Date:		9/22/92		4/14/93	
2,4-Dinitrophenol	50	50	U	50	U
4-Nitrophenol	50	50	U	50	U
Dibenzofuran	10	10	U	10	U
2,4-Dinitrotoluene	10	10	U	10	U
Diethylphthalate	10	10	U	10	U
4-Chlorophenyl-phenylether	10	10	U	10	U
Fluorene	10	10	U	10	U
4-Nitroaniline	50	50	U	50	U
4,6-Dinitro-2-methylphenol	50	50	U	50	U
N-Nitrosodiphenylamine	10	10	U	10	U
4-Bromophenyl-phenylether	10	10	U	10	U
Hexachlorobenzene	10	10	U	10	U
Pentachlorophenol	25	25	U	50	U
Phenanthrene	10	10	U	10	U
Anthracene	10	10	U	10	U
Di-n-butylphthalate	10	10	U	10	U
Fluoranthene	10	10	U	10	U
'yrene	10	10	U	10	U
Butylbenzylphthalate	10	10	U	10	U
3,3'-Dichlorobenzidine	20	20	U	20	U
Benzo(a)anthracene	10	10	U	10	U
Chrysene	10	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	10	U	10	U
Di-n-octylphthalate	10	10	U	10	U
Benzo(b)fluoranthene	10	10	U	10	U
Benzo(k)fluoranthene	10	10	U	10	U
Benzo(a)pyrene	10	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	10	U	10	U
Dibenz(a,h)anthracene	10	10	U	10	U
Benzo(g,h,i)perylene	10	10	U	10	U
Total TICs		8	J	NA	

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 18

Surface Water PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-01B-01		SW-01B-02		SW-08-02		SW-13-02		SW-02-01		SW-02-02		SW-09-01		SW-09-02	
Latitude:		42-52-40		42-52-40		42-52-43		42-52-36		42-52-38		42-52-38		42-52-40		42-52-40	
Longitude:		73-08-59		73-08-59		73-08-57		73-09-02		73-09-00		73-09-00		73-09-00		73-09-00	
Sample ID #:		Q5899		S0008		S0006		S0009		Q5902		R9838		Q5903		R9839	
Sample Date:		9/23/92		4/15/93		4/15/93		4/15/93		9/23/92		4/14/93		9/23/92		4/14/93	
Compound	Detection Limit																
alpha-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
beta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
delta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Aldrin	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor epoxide	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan I	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
4,4'-DDE	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Dieldrin	0.013	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Endrin	0.027	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
4,4'-DDD	0.10	0.100	U	0.10	U	0.10	U	0.10	U	0.100	U	0.10	U	0.100	U	0.10	U
Endosulfan II	0.056	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
4,4'-DDT	0.050	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan sulfate	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10		R	0.10	U	0.10	U	0.10	U		R	0.10	U		R	0.10	U
Methoxychlor	0.20	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Endrin ketone	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Chlordane	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Toxaphene	1.0	1.0	U	1.00	U	1.00	U	1.00	U	1.0	U	1.00	U	1.0	U	1.00	U
PCB-1221	0.01	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1232	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1016/1242	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1248	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1254	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1260	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
* Detection Limit for total PCBs is 0.5.
J – Indicates an estimated value.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.

Table 18

Surface Water PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-10-01		SW-10-02		SW-11-01		SW-11-02		SW-12-01		SW-12-01 BLDUP		SW-12-02		SW-03-01	
Latitude:		42-52-41		42-52-41		42-52-39		42-52-39		42-52-38		42-52-38		42-52-38		42-52-37	
Longitude:		73-08-59		73-08-59		73-09-00		73-09-00		73-09-01		73-09-01		73-09-01		73-09-02	
Sample ID #:		Q5904		S0007		Q5901		R9837		Q5900		Q5906		R9836		Q5870	
Sample Date:		9/23/92		4/15/93		9/23/92		4/14/93		9/23/92		9/23/92		4/14/93		9/22/92	
Compound	Detection Limit																
alpha-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
beta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
delta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Aldrin	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor epoxide	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan I	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
4,4'-DDE	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Dieldrin	0.013	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Endrin	0.027	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
4,4'-DDD	0.10	0.100	U	0.10	U	0.100	U	0.10	U	0.100	U	0.100	U	0.10	U	0.100	U
Endosulfan II	0.056	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
4,4'-DDT	0.050	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan sulfate	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10		R	0.10	U		R	0.10	U		R		R	0.10	U		R
Methoxychlor	0.20	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Endrin ketone	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Chlordane	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Toxaphene	1.0	1.0	U	1.00	U	1.0	U	1.00	U	1.0	U	1.0	U	1.00	U	1.0	U
PCB-1221	0.01	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1232	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1016/1242	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1248	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1254	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1260	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
* Detection Limit for total PCBs is 0.5.
J – Indicates an estimated value.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.

Table 18

Surface Water PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-03-02		SW-04-01		SW-04-02		SW-04-02 BLDUP		SW-05-01		SW-05-02		SW-07-01		SW-07-02	
Latitude:		42-52-37		42-52-35		42-52-35		42-52-35		42-52-33		42-52-33		42-52-34		42-52-34	
Longitude:		73-09-02		73-09-08		73-09-08		73-09-08		73-09-15		73-09-15		73-09-13		73-09-13	
Sample ID #:		R9835		Q5873		R9663		R9664		Q5778		R9666		Q5871		R9665	
Sample Date:		4/13/93		9/22/92		4/13/93		4/13/93		9/21/92		4/13/93		9/22/92		4/13/93	
Compound	Detection Limit																
alpha-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
beta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
delta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Aldrin	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor epoxide	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan I	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
4,4'-DDE	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Dieldrin	0.013	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Endrin	0.027	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
4,4'-DDD	0.10	0.10	U	0.100	U	0.10	U	0.10	U	0.100	U	0.10	U	0.100	U	0.10	U
Endosulfan II	0.056	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
4,4'-DDT	0.050	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan sulfate	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	0.10	U		R	0.10	U	0.10	U		R	0.10	U		R	0.10	U
Methoxychlor	0.20	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Endrin ketone	0.10	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.20	U	0.10	U	0.10	U
Chlordane	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Toxaphene	1.0	1.00	U	1.0	U	1.00	U	1.00	U	1.0	U	1.00	U	1.0	U	1.00	U
PCB-1221	0.01	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1232	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1016/1242	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1248	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1254	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
PCB-1260	*	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
* Detection Limit for total PCBs is 0.5.
J – Indicates an estimated value.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.

Table 18

Surface Water PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-14-01		SW-14-02	
Latitude:		42-52-37		42-52-37	
Longitude:		73-09-03		73-09-03	
Sample ID #:		Q5872		R9840	
Sample Date:		9/22/92		4/14/93	
Compound	Detection Limit				
alpha-BHC	0.05	0.05	U	0.05	U
gamma-BHC	0.05	0.05	U	0.05	U
beta-BHC	0.05	0.05	U	0.05	U
Heptachlor	0.05	0.05	U	0.05	U
delta-BHC	0.05	0.05	U	0.05	U
Aldrin	0.05	0.05	U	0.05	U
Heptachlor epoxide	0.05	0.05	U	0.05	U
Endosulfan I	0.05	0.05	U	0.05	U
4,4'-DDE	0.10	0.10	U	0.10	U
Dieldrin	0.013	0.01	U	0.01	U
Endrin	0.027	0.03	U	0.03	U
4,4'-DDD	0.10	0.100	U	0.10	U
Endosulfan II	0.056	0.06	U	0.06	U
4,4'-DDT	0.050	0.05	U	0.05	U
Endosulfan sulfate	0.10	0.10	U	0.10	U
Endrin aldehyde	0.10		R	0.10	U
Methoxychlor	0.20	0.20	U	0.20	U
Endrin ketone	0.10	0.10	U	0.10	U
Chlordane	0.05	0.05	U	0.05	U
Toxaphene	1.0	1.0	U	1.00	U
PCB-1221	0.01	0.50	U	0.50	U
PCB-1232	*	0.50	U	0.50	U
PCB-1016/1242	*	0.50	U	0.50	U
PCB-1248	*	0.50	U	0.50	U
PCB-1254	*	0.50	U	0.50	U
PCB-1260	*	0.50	U	0.50	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
* Detection Limit for total PCBs is 0.5.
J – Indicates an estimated value.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.

Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-01A-02	SW-01B-01	SW-01B-02	SW-08-02	SW-13-02	SW-02-01	SW-02-02	SW-09-01
Latitude:		42-52-43	42-52-40	42-52-40	42-52-43	42-52-36	42-52-38	42-52-38	42-52-40
Longitude:		73-08-56	73-08-59	73-08-59	73-08-57	73-09-02	73-09-00	73-09-00	73-09-00
Sample ID #:		SW0122	Q5899	S0008	S0006	S0009	Q5902	R9838	Q5903
Sample Date:		4/15/93	9/23/92	4/15/93	4/15/93	4/15/93	9/23/92	4/14/93	9/23/92
Analyte	DETECTION LIMIT								
Aluminum	200	NA	377 J	333	2140	194 J	176 J	142 U	196 J
Antimony	17	NA	20 UJ	45.4 U	34.3 U	28.4 U	26.1 U	29.3 U	20 UJ
Arsenic	10	NA	2 U	2 U	6 J	2 UJ	2 U	2 U	2 U
Barium	200	NA	33.2 J	27.8 J	278 J	12.6 J	62 J	26.2 J	85 J
Beryllium	5	NA	0.1 U	0.1 U	1.9 U	0.1 U	0.1 U	1 U	0.1 U
Cadmium	3	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Calcium	5000	NA	10800	2870 J	21000	5950	23800	3040 J	39800
Chromium	10	NA	4 U	2 U	5.6 J	2 U	4 U	2 U	4 U
Cobalt	50	NA	4 U	5 U	25.6 J	5 U	4 U	5 U	4 U
Copper	5	NA	4.3 U	3.3 J	12.2 J	7.7	3.8 U	4.1 J	4.3 U
Iron	100	NA	509	331	309000	271	5230	154	10100
Lead	3	NA	1.2 J	2.6 J	7.5	1 U	1 U	1 U	1.3 J
Magnesium	5000	NA	4390 J	706 J	4130 J	2270 J	8130	778 J	11100
Manganese	15	NA	176	12.4 J	2680 J	33.6	1190	19.1	1420
Mercury	0.2	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
lickel	40	NA	6 U	8 U	8 U	8 U	6 U	8 U	U
Potassium	5000	NA	450 UJ	1050 J	628 J	600 U	4310 J	670 J	6050 J
Selenium	5	NA	3 U	3 UJ	3 U	3 UJ	3 U	3 U	3 U
Silver	10	NA	2 U	2 U	5.9 J	2 U	2 U	2 U	2 U
Sodium	5000	NA	2490 J	2150 J	1830 J	2230 J	5260	1850 J	6390
Thallium	10	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vanadium	50	NA	5.9 U	5 U	11.2 J	5 U	5.8 J	5 U	7.6 J
Zinc	20	NA	8.7 U	11.2 U	170	8.9 U	6.2 U	10.4 U	31.8
Cyanide	5	NA	5 UJ	5 U	5 U	5 U	5.3 UJ	5 U	5 UJ
BOD5 (mg/l)	1	NA	12 UJ	6 UJ	6 UJ	6 UJ	12 UJ	6 UJ	12 UJ
Hardness (mg/l)	1	NA	45	10	69	24	93	11	150
Hex Chromium [1]	10	NA	20 U	20 U	20 U	20 U	20 U	20 U	20 U

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.
[1] – Subcontracted to Adirondack Environmental Services.

Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-09-02		SW-10-01		SW-10-02		SW-11-01		SW-11-02		SW-11-03		W-11-03-F		SW-12-01	
Latitude:		42-52-40		42-52-41		42-52-41		42-52-39		42-52-39		42-52-39		42-52-39		42-52-38	
Longitude:		73-09-00		73-08-59		73-08-59		73-09-00		73-09-00		73-09-00		73-09-00		73-09-01	
Sample ID #:		R9839		Q5904		S0007		Q5901		R9837		0003-SA		0003-SA		Q5900	
Sample Date:		4/14/93		9/23/92		4/15/93		9/23/92		4/14/93		11/17/93		11/17/93		9/23/92	
Analyte	DETECTION LIMIT																
Aluminum	200	59.7	U	1280	J	59.9	U	311	J	92.6	U	810		100	U	136	J
Antimony	17	33.2	U	20	UJ	37.1	U	20	UJ	34.9	U	60	U	19	J	20	UJ
Arsenic	10	2	U	2	U	2	U	2	J	2	U	10		5	U	2	U
Barium	200	37.7	J	101	J	37.1	J	94.8	J	49.1	J	980		63		53.6	J
Beryllium	5	0.97	U	0.1	U	0.98	U	0.1	U	0.1	U	2	U	2	U	0.1	U
Cadmium	3	2	U	2	U	2	U	2	U	2	U	0.47	J	0.5	UJ	2	U
Calcium	5000	26000		29900		25700		36600		26200		53300		39500		22300	
Chromium	10	2	U	4	U	2	U	4	U	2	U	34	J	10	U	4	U
Cobalt	50	5	U	4.2	J	5	U	4	U	5	U	10	U	10	U	4	U
Copper	5	4.9	J	6.5	U	3	J	5.3	U	4.7	J	5	U	5	U	4.6	U
Iron	100	1180		14200		498		13300		3510		593000		70	J	2610	
Lead	3	1	U	6.6		3	J	1.6	J	1	U	6	U	3	U	1	U
Magnesium	5000	6640		8300		6370		11100		7040		11800		12000		7720	
Manganese	15	372		2540		342		1700		547		22800	J	640		849	
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
ickel	40	8	U	6	U	8	U	6	U	8	U	40	U	40	U	6	U
otassium	5000	3330	J	1760	J	2070	J	6260	J	3560	J	5600		8200		3910	J
Selenium	5	3	U	3	U	3	U	3	U	3	U	5	U	5	UJ	3	U
Silver	10	2.5	J	2	U	2	U	2	U	2	U	10	U	10	U	2	U
Sodium	5000	4310	J	3200	J	3510	J	7070		5020		2800	J	6100		5920	
Thallium	10	1	U	1	U	1	U	1	U	1	U	5	U	5	U	1	U
Vanadium	50	5	U	8.5	J	5	U	7.3	J	5	U	10	U	10	U	5.3	U
Zinc	20	14.6	U	62.7		20.9	U	10.2	U	14.2	U	120	U	37	U	4.8	U
Cyanide	5	6		5	UJ	5	U	5	UJ	5	U	NA		NA		5	UJ
BOD5 (mg/l)	1	6	UJ	12	UJ	6	UJ	12	UJ	6	UJ	NA		NA		12	UJ
Hardness (mg/l)	1	92		110		90		140		94		NA		NA		87	
Hex Chromium [1]	10	20	U	20	U	20	U	20	U	20	U	20	U	NA		20	U

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Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-12-01 BLDUP#1		SW-12-02		SW-12-03		SW-12-03-F		SW-03-01		SW-03-02		SW-03-03		W-03-03-F	
Latitude:		42-52-38		42-52-38		42-52-38		42-52-38		42-52-37		42-52-37		42-52-37		42-52-37	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-01		73-09-02		73-09-02		73-09-02		73-09-02	
Sample ID #:		Q5906		R9836		0001-SA		0001-SA		Q5870		R9835		0002-SA		0002-SA	
Sample Date:		9/23/92		4/14/93		11/17/93		11/17/93		9/22/92		4/14/93		11/17/93		11/17/93	
Analyte	DETECTION LIMIT																
Aluminum	200	138	J	110	U	100	U	100	U	884	J	135	U	100	U	100	U
Antimony	17	22.3	U	22.6	U	60	U	60	U	20	UJ	22.6	U	60	U	0.15	J
Arsenic	10	2	U	2	U	5	U	5	U	2	U	2	U	5	U	60	U
Barium	200	54	J	27.8	J	26		20		66.4	J	26.2	J	29		5	U
Beryllium	5	0.1	U	0.1	U	2	U	2	U	0.1	U	0.1	U	2	U	20	
Cadmium	3	2	U	2	U	0.13	J	0.12	J	2	U	2	U	0.15	J	2	U
Calcium	5000	22400		3370	J	10100		10900		24000		3390	J	11000		11500	
Chromium	10	4	U	2	U	8.6	J	10	U	4	U	2.3	J	10	U	10	U
Cobalt	50	4	U	5	U	10	U	10	U	4	U	5.8	J	10	U	10	U
Copper	5	2.9	U	3.3	J	5	U	5	U	5.5	U	4.6	J	7.2	U	5	U
Iron	100	2670		175		470		130		3150		176		180		62	J
Lead	3	1	U	1	U	1.7	J	3	U	3.5		1	U	2	J	3	U
Magnesium	5000	7760		815	J	3700		4100		8820		806	J	4100		4400	
Manganese	15	849		21.5		130		110		681		22		120		120	
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	40	6	U	8	U	40	U	404	U	7.5	J	8	U	40	U	40	U
Potassium	5000	4270	J	600	U	490	J	2300	J	4240	J	600	U	1000	J	3500	J
Selenium	5	3	U	3	U	5	U	5	UJ	3	U	3.1	U	5	U	5	UJ
Silver	10	2	U	2	U	5	J	10	U	2	U	2	U	7.9	J	10	U
Sodium	5000	6730		2180	J	1600	J	1500	J	6070		2190	J	1900	J	5000	U
Thallium	10	1	U	1	U	5	U	5	U	1	U	1	U	5	U	5	U
Vanadium	50	5.8	J	5	U	10	U	10	U	7.6	U	5	U	10	U	10	U
Zinc	20	5.2	U	10.4	U	19	U	14	U	18.8	U	11.2	U	24	U	11	U
Cyanide	5	5	UJ	5	U	NA		NA		5	UJ	5		NA		NA	
BOD5 (mg/l)	1	12	UJ	6	UJ	NA		NA		12	UJ	6	UJ	NA		NA	
Hardness (mg/l)	1	88		12		NA		NA		96		12		NA		NA	
Hex Chromium [1]	10	20	U	20	U	20	U	NA		20	U	20	U	20	U	NA	

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Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
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Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-04-01	SW-04-02	SW-04-02 BLDUP	SW-04-03	SW-04-03-F	SW-05-01	SW-05-02	SW-05-03
Latitude:		42-52-35	42-52-35	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33	42-52-33
Longitude:		73-09-08	73-09-08	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15	73-09-15
Sample ID #:		Q5873	R9663	R9664	0007-SA	0007-SA	Q5778	R9666	0004-SA
Sample Date:		9/22/92	4/13/93	4/13/93	11/16/93	11/16/93	9/21/92	4/13/93	11/16/93
Analyte	DETECTION LIMIT								
Aluminum	200	170 J	222	218	50 J	100 U	232 J	444	69 J
Antimony	17	23.4 J	17 U	17 U	60 U	14 J	23.1 J	17 U	60 U
Arsenic	10	2 U	2 U	2 U	5 U	5 U	2 U	2 U	5 U
Barium	200	45.6 J	27.8 J	26.2 J	25	19	47.8 J	22.9 J	26
Beryllium	5	0.1 U	0.1 U	0.1 U	2 U	2 U	0.1 U	0.1 U	2 U
Cadmium	3	2 U	2 U	2 U	0.5 U	0.5 U	2 U	2 U	0.2 J
Calcium	5000	21800	3620 J	3370 J	11500	12700	21800	4200 J	9300
Chromium	10	4 U	2 U	2 U	10 U	8.1 J	4 U	2 U	10 U
Cobalt	50	4 U	5 U	5 U	10 U	10 U	4 U	5 U	10 U
Copper	5	3.4 U	3.6 J	5.2	4.8 U	5 U	4.5 U	4.4 J	3.9 U
Iron	100	367	268	269	94 J	30 J	786	696	92 J
Lead	3	1 U	1 U	1 U	3 U	3 U	3.1	1.7 J	1.6 J
Magnesium	5000	8200	930 J	915 J	4300	4800	7930	1170 J	3000
Manganese	15	61.8	50.8	44.1	20	10 U	102	39.8	8.9 J
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	6 U	8 U	8 U	40 U	40 U	6 U	8 U	40 U
Potassium	5000	3950 J	600 U	600 U	1400 J	1000 J	1010 J	600 U	1500 J
Selenium	5	3 U	3.1 U	3 U	5 U	5 U	3 U	3.4 U	5 U
Silver	10	2.2 J	2 U	2 U	5.1 J	5.8 J	2 U	2 U	3 J
Sodium	5000	5420	2140 J	2230 J	1600 J	1900 J	4960 J	2510 J	4100 J
Thallium	10	1 U	1 UJ	1 U	5 U	5 U	1 U	1 U	5 U
Vanadium	50	7.8 U	5 U	5 U	10 U	10 U	5.7 U	5 U	10 U
Zinc	20	8 U	18.2 U	12.1 U	21 U	25 U	17.4 U	12.9 U	24 U
Cyanide	5	5 UJ	5 U	5 U	NA	NA	5 UJ	5 U	NA
BOD5 (mg/l)	1	12 UJ	6 UJ	6 UJ	NA	NA	12 UJ	6 UJ	NA
Hardness (mg/l)	1	88	13	12	NA	NA	87	15	NA
Hex Chromium [1]	10	20 U	20 U	20 U	20 U	NA	20 U	20 U	20 U

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Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
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Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-05-03-F		SW-06-01		SW-06-02		SW-06-03		SW-06-03-F		SW-07-01		SW-07-02		SW-07-03	
Latitude:		42-52-33		42-52-33		42-52-33		42-52-33		42-52-33		42-52-34		42-52-34		42-52-34	
Longitude:		73-09-15		73-09-13		73-09-13		73-09-13		73-09-13		73-09-13		73-09-13		73-09-13	
Sample ID #:		0004-SA		Q5779		R9667		0005-SA		0005-SA		Q5871		R9665		0006-SA	
Sample Date:		11/16/93		9/21/92		4/13/93		11/16/93		11/16/93		9/22/92		4/13/93		11/16/93	
Analyte	DETECTION LIMIT																
Aluminum	200	100	U	129	J	464		59	J	100	U	419	J	180	U	140	
Antimony	17	60	U	20	UJ	27.8	U	25	J	60	U	20	UJ	17	UJ	60	U
Arsenic	10	5	U	2	U	2	U	5	U	5	U	2	U	2	U	5	U
Barium	200	16		45.2	J	19.6	J	25		16		54.5	J	22.9	J	31	
Beryllium	5	2	U	0.1	U	2	U	2	U	2	U	0.1	U	0.1	U	2	U
Cadmium	3	0.22	J	2	U	2	U	0.34	J	0.37	J	2	U	2	U	0.41	J
Calcium	5000	9100		26900		3890	J	7700		8100		21300		3690	J	14000	
Chromium	10	9.9	J	4	U	2.6	J	10	U	8.2	J	4	U	2	U	10	U
Cobalt	50	10	U	4	U	5	U	10	U	10	U	4	U	5	U	10	U
Copper	5	5	U	13.8	U	6		4.7	U	5	U	4.8	U	3.3	J	6.2	U
Iron	100	55	J	329		699		81	J	20		943		229		300	
Lead	3	3	U	2.2	J	1.3	J	1.4	J	3	U	2.1	J	1	U	1.9	J
Magnesium	5000	2900		9970		1100	J	2300		2500		8190		1030	J	5400	
Manganese	15	6.3	J	102		31.3		6.5	J	4.6	J	191		34		60	
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
ickel	40	40	U	6	U	8	U	40	U	40	U	6	U	8	U	40	U
Potassium	5000	5000	U	450	UJ	901	J	5000	U	330	J	2390	J	600	U	2000	J
Selenium	5	5	U	3	U	3	U	5	U	5	U	3	U	3	U	5	U
Silver	10	3.5	J	2	U	2	U	12		10	U	2	U	2	U	3.8	J
Sodium	5000	5000	U	5140		2420	J	2800	J	1800	J	5010		2010	J	3700	J
Thallium	10	5	U	1	U	1	U	5	U	5	U	1	U	1	U	5	U
Vanadium	50	10	U	5.6	U	5	U	10	U	10	U	5.6	U	5	U	10	U
Zinc	20	21	U	9.8	U	20	U	29	U	14	U	19.6	U	10.8	U	19	U
Cyanide	5	NA		NA		12.9	U	NA		NA		5	UJ	5	U	NA	
BOD5 (mg/l)	1	NA		12	UJ	6	UJ	NA		NA		12	UJ	6	UJ	NA	
Hardness (mg/l)	1	NA		110		14		NA		NA		87		13		NA	
Hex Chromium [1]	10	NA		20	U	20	U	20	U	NA		20	U	20	U	20	U

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Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-07-03-F		SW-14-01		SW-14-02		SW-14-03		W-14-03-F		SW-15-01		SW-15-02		SW-15-03	
Latitude:		42-52-34		42-52-37		42-52-37		42-52-37		42-52-37		42-52-36		42-52-36		42-52-36	
Longitude:		73-09-13		73-09-03		73-09-03		73-09-03		73-09-03		73-09-04		73-09-04		73-09-04	
Sample ID #:		0006-SA		Q5872		R9840		0004-SA		0004-SA		Q5874		R9841		0008-SA	
Sample Date:		11/16/93		9/22/92		4/14/93		11/17/93		11/17/93		9/22/92		4/14/93		11/16/93	
Analyte	DETECTION LIMIT																
Aluminum	200	100	U	197	J	141	U	85	J	100	U	113	J	183	U	100	U
Antimony	17	60	U	20.2	J	17	UJ	60	U	60	U	29	J	32.4	U	60	U
Arsenic	10	5	U	2	U	2	U	5	U	5	U	2	U	2	U	5	U
Barium	200	22		53.6	J	27.3	J	32		23		50.5	J	26.2	J	26	
Beryllium	5	2	U	0.1	U	0.1	U	2	U	2	U	0.1	U	0.1	U	2	U
Cadmium	3	0.43	J	2	U	2	U	0.5	U	0.11	J	2	U	2	U	0.5	U
Calcium	5000	14100		21800		3390	J	11700		11700		22700		3600	J	11100	
Chromium	10	10	U	4	U	2	U	10	U	10	U	4	U	2.8	J	10	U
Cobalt	50	10	U	4	U	5	U	10	U	10	U	4	U	5	U	10	U
Copper	5	5	U	7.5	U	3	J	5.7	U	5	U	4.8	U	3	J	5.2	U
Iron	100	100	U	1120		162		970		140		559		218		160	
Lead	3	3	U	1.6	J	1	U	1.2	J	3	U	1	U	1	U	1.5	J
Magnesium	5000	5400		7970		841	J	4400		4400		8400		992	J	4100	
Manganese	15	10	U	583		23.6		230		120		301		25.2		75	
Mercury	0.2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.22		0.2	U
Nickel	40	40	U	6.6	J	8	U	40	U	40	U	6	U	8	U	40	U
Potassium	5000	1200	J	3700	J	600	U	2100	J	3400	J	4310	J	600	U	750	J
Selenium	5	5	U	3	U	3	U	5	U	5	UJ	3	U	3	U	5	U
Silver	10	3.7	J	2	U	2	U	3.2	J	10	U	2	U	2	U	3.2	J
Sodium	5000	1600	J	6090		2220	J	3100	J	5000	U	5670		2180	J	1500	J
Thallium	10	5	U	1	U	1	U	5	U	5	U	1	U	1	U	5	U
Vanadium	50	10	U	4.6	U	5	U	10	U	10	U	7.2	U	5	U	10	U
Zinc	20	12	U	13.7	U	13	U	34	U	19	U	10.5	U	13	U	23	U
Cyanide	5	NA		5	UJ	5	U	NA		NA		NA		NA		NA	
BOD5 (mg/l)	1	NA		12	UJ	6	UJ	NA		NA		12	UJ	6	UJ	NA	
Hardness (mg/l)	1	NA		87		12		NA		NA		91		13		NA	
Hex Chromium [1]	10	NA		20	U	20	U	20	U	NA		20	U	20	U	20	U

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Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-15-03-F	SW-16-03	SW-16-03-F	SW-17-03	SW-17-03 BLDUP-1-3	SW-17-03-F	SW-17-03-F BLDUP-1-3	SW-17-04
Latitude:		42-52-36	42-52-33	42-52-33	42-52-33	42-52-33	42-52-33	42-52-33	42-52-33
Longitude:		73-09-04	73-09-16	73-09-16	73-09-17	73-09-17	73-09-17	73-09-17	73-09-17
Sample ID #:		0008-SA	0003-SA	0003-SA	0001-SA	0002-SA	0001-SA	0002-SA	0001-SA
Sample Date:		11/16/93	11/16/93	11/16/93	11/16/93	11/16/93	11/16/93	11/16/93	2/22/94
Analyte	DETECTION LIMIT								
Aluminum	200	100 U	85 J	100 U	97 J	65 J	100 U	100 U	69 J
Antimony	17	60 U	60 U	60	60 U	60 U	60 U	60 U	60 U
Arsenic	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Barium	200	21	25	16	26	24	15	26	24
Beryllium	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	3	0.16 J	0.14 J	0.14 J	0.12 J	0.21 J	0.14 J	0.26 J	0.15 J
Calcium	5000	11400	8500	9100	9000	8500	8800	9200	8800
Chromium	10	10 U	10 U	10 U	8.1 J	10 U	10 U	10 U	10 U
Cobalt	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	5	5 U	6.3 U	5 U	8.4 U	5.8 U	5 U	5 U	5 U
Iron	100	40 J	94 J	97 J	320	130	43 J	44 J	190
Lead	3	3 U	3 U	3 U	1.8 J	2.5 J	3 U	3 U	1.2 J
Magnesium	5000	4300	2700	2900	2900	2700	2800	2900	2800
Manganese	15	69	17	6.9 J	32	20	11	12	46
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	40	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	5000	1700 J	5000 U	5000 U	460 J	5000 U	5000 U	5000 U	890 J
Selenium	5	5 U	2.2 J	5 U	5 U	2.4 J	5 U	5 UJ	5 U
Silver	10	10 U	5.7 J	4.7 J	4.3 J	6.6 J	6.9 J	4.1 J	10 U
Sodium	5000	5000 U	3600 J	3200 J	5000	3900 J	4200 J	2100 J	4600 U
Thallium	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vanadium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	20	19 U	17 U	11 U	78 U	25 U	17 U	15 U	6 U
Cyanide	5	NA	NA	NA	NA	NA	NA	NA	NA
BOD5 (mg/l)	1	NA	NA	NA		NA	NA	NA	NA
Hardness (mg/l)	1	NA	NA	NA		NA	NA	NA	NA
Hex Chromium [1]	10	NA	20 U	NA	20 U	20 U	NA	NA	NA

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.
[1] – Subcontracted to Adirondack Environmental Services.

Table 19

Surface Water Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SW-17-04-F	
Latitude:		42-52-33	
Longitude:		73-09-17	
Sample ID #:		0001-SA	
Sample Date:		2/22/94	
Analyte	DETECTION LIMIT		
Aluminum	200	100	U
Antimony	17	60	U
Arsenic	10	5	U
Barium	200	24	
Beryllium	5	2	U
Cadmium	3	0.5	U
Calcium	5000	10100	
Chromium	10	10	U
Cobalt	50	5	U
Copper	5	3.7	J
Iron	100	55	U
Lead	3	3	U
Magnesium	5000	3300	
Manganese	15	50	
Mercury	0.2	0.2	U
Nickel	40	40	U
Potassium	5000	1100	J
Selenium	5	5	U
Silver	10	10	U
Sodium	5000	4900	J
Thallium	10	5	UJ
Vanadium	50	10	U
Zinc	20	31	U
Cyanide	5	NA	
BOD5 (mg/l)	1	NA	
Hardness (mg/l)	1	NA	
Hex Chromium [1]	10	NA	

NOTES:

Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Not-detected results are approximated.
[1] – Subcontracted to Adirondack Environmental Services.

Table 20

Sediments Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-01A-01	SED-01A-02	SED-01B-01	SED-01B-02	SED-08-01	SED-08-02	SED-02-01
Latitude:		42-52-43	42-52-43	42-52-40	42-52-40	42-52-43	42-52-43	42-52-38
Longitude:		73-08-56	73-08-56	73-08-59	73-08-59	73-08-57	73-08-57	73-09-00
Sample ID #:		Q5916	S0019	Q5917	S0017	Q5911	S0020	Q5910
Sample Date:		9/23/92	4/15/93	9/23/92	4/15/93	9/23/92	4/15/93	9/23/92
Percent Solids Results:		58%	55%	48%	56%	70%	55%	48%
Compound	Detection Limit							
Acetone	10	17 U	18 U	21 U	47	27	300	190
Benzene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Bromodichloromethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Bromoform	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Bromomethane	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
2-Butanone	10	17 U	R	21 U	R	14 U	29 UJ	58
Carbon disulfide	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Carbon tetrachloride	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Chlorobenzene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Chloroethane	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
Chloroform	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Chloromethane	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
Dibromochloromethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
1,1-Dichloroethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
1,2-Dichloroethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
1,1-Dichloroethene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
1,2-Dichloroethene (total)	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
,2-Dichloropropane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
cis-1,3-Dichloropropene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
trans-1,3-Dichloropropene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Ethylbenzene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
2-Hexanone	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
Methylene chloride	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
4-Methyl-2-pentanone	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
Styrene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
1,1,2,2-Tetrachloroethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Tetrachloroethene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Toluene	5	9 U	9 U	10 U	9 U	7 U	9 U	96
1,1,1-Trichloroethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
1,1,2-Trichloroethane	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Trichloroethene	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Vinyl acetate	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
Vinyl chloride	10	17 U	18 U	21 U	18 U	14 U	18 U	22 U
Xylene (total)	5	9 U	9 U	10 U	9 U	7 U	9 U	11 U
Total TICs		NA	NA	NA	NA	NA	NA	28 J

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 20

Sediments Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-02-02		SED-09-01		SED-09-02		SED-10-01		SED-10-02		SED-11-01		SED-11-02	
Latitude:		42-52-38		42-52-40		42-52-40		42-52-41		42-52-41		42-52-39		42-52-39	
Longitude:		73-09-00		73-09-00		73-09-00		73-08-59		73-08-59		73-09-00		73-09-00	
Sample ID #:		R9851		Q5912		R9852		Q5913		S0016		Q5914		R9853	
Sample Date:		4/14/93		9/23/92		4/14/93		9/23/92		4/15/93		9/23/92		4/14/93	
Percent Solids Results:		50%		54%		47%		78%		76%		42%		51%	
Compound	Detection Limit														
Acetone	10	390		210		130		42		270		280		2400	U
Benzene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Bromodichloromethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Bromoform	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Bromomethane	10	20	U	18	U	21	U	13	U	66	U	24	U	2400	U
2-Butanone	10	72	UJ	52			R	13	U		R	73			R
Carbon disulfide	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Carbon tetrachloride	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Chlorobenzene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Chloroethane	10	20	U	18	U	21	U	13	U	66	U	24	U	2400	U
Chloroform	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Chloromethane	10	20	U	18	U	21	U	13	U	66	U	24	U	2400	U
Dibromochloromethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
1,1-Dichloroethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
1,2-Dichloroethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
1,1-Dichloroethene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
1,2-Dichloroethene (total)	5	47		9	U	11	U	6	U	860		190		1700	
,2-Dichloropropane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
cis-1,3-Dichloropropene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
trans-1,3-Dichloropropene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Ethylbenzene	5	16		9	U	11	U	6	U	33	U	12		1200	U
2-Hexanone	10	20	U	18	U	21	U	13	U	66	U	24	U	2400	U
Methylene chloride	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
4-Methyl-2-pentanone	10	20	U	18	U	21	U	13	U	66	U	24	U	2400	U
Styrene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
1,1,2,2-Tetrachloroethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Tetrachloroethene	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Toluene	5	190		9	U	11	U	6	U	33	U	180		1200	U
1,1,1-Trichloroethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
1,1,2-Trichloroethane	5	10	U	9	U	11	U	6	U	33	U	12	U	1200	U
Trichloroethene	5	10	U	9	U	11	U	6	U	520		27		1200	U
Vinyl acetate	10	20	U	18	U	21	U	13	U	66	U	24	U	2400	U
Vinyl chloride	10	260		18	U	21	U	13	U	270		430		2400	U
Xylene (total)	5	64		9	U	18		6	U	33	U	48		1200	U
Total TICs		24	J	NA		17	J	15	J	NA		303	J	2000	J

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 20

Sediments Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-11-03	SED-12-01	SED-12-01 BLDUP	SED-12-02	SED-12-03	SED-03-01	SED-03-02
Latitude:	42-52-39	42-52-38	42-52-38	42-52-38	42-52-38	42-52-37	42-52-37
Longitude:	73-09-00	73-09-01	73-09-01	73-09-01	73-09-01	73-09-02	73-09-02
Sample ID #:	0006-SA	Q5915	Q5918	R9854	0007-SA	Q5877	R9855
Sample Date:	11/17/93	9/23/92	9/23/92	4/14/93	11/17/93	9/22/92	4/14/93
Percent Solids Results:	49%	69%	71%	56%	66%	49%	44%

Compound	Detection Limit													
Acetone	10	340	J	52	J	87	J	400		59	J	27	UJ	79	
Benzene	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Bromodichloromethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Bromoform	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Bromomethane	10	41	UJ	14	U	14	U	45	U	15	UJ	20	U	20	U
2-Butanone	10	59		16	J	26		75	UJ	15	U	20	U		R
Carbon disulfide	5	20	U	7	U	7	U	22	U	1.9	J	10	U	10	U
Carbon tetrachloride	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Chlorobenzene	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Chloroethane	10	41	U	14	U	14	U	45	U	15	U	20	U	20	U
Chloroform	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Chloromethane	10	41	U	14	U	14	U	45	U	15	U	20	U	20	U
Dibromochloromethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
1,1-Dichloroethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
1,2-Dichloroethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
1,1-Dichloroethene	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
1,2-Dichloroethene (total)	5	20	U	7	U	7	U	150		7.6	U	35		10	U
,2-Dichloropropane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
cis-1,3-Dichloropropene	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
trans-1,3-Dichloropropene	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Ethylbenzene	5	20	U	7	U	7	U	22	U	2.9	J	10	U	10	U
2-Hexanone	10	41	U	14	U	14	U	45	U	15	U	20	U	20	U
Methylene chloride	5	4.2	J	7	U	7	U	22	U	7.6	U	10	U	10	U
4-Methyl-2-pentanone	10	41	U	14	U	14	U	45	U	15	U	20	U	20	U
Styrene	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
1,1,2,2-Tetrachloroethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Tetrachloroethene	5	20	U	7	U	7	U	72		7.6	U	10	U	10	U
Toluene	5	21		11	J	7	UJ	22	U	4.6	J	10	U	10	U
1,1,1-Trichloroethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
1,1,2-Trichloroethane	5	20	U	7	U	7	U	22	U	7.6	U	10	U	10	U
Trichloroethene	5	20	U	7	U	7	U	180		7.6	U	21		12	
Vinyl acetate	10	41	U	14	U	14	U	45	U	15	U	20	U	20	U
Vinyl chloride	10	41	U	14	U	14	U	45	U	86		20	U	20	U
Xylene (total)	5	20	U	7	U	7	U	22	U	2.5	J	10	U	10	U
Total TICs				NA		82	J	NA				NA		NA	

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unuseable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Sediments Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-04-01	SED-04-02	SED-04-02 BLDUP	SED-05-01	SED-05-02	SED-06-01	SED-06-02
Latitude:	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33	42-52-33	42-52-33
Longitude:	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15	73-09-13	73-09-13
Sample ID #:	Q5878	R9674	R9679	Q5781	R9675	Q5783	R9676
Sample Date:	9/22/92	4/13/93	4/13/93	9/21/92	4/13/93	9/21/92	4/13/93
Percent Solids Results:	70%	68%	74%	81%	76%	80%	70%

Compound	Detection Limit													
Acetone	10	18	UJ	15	U	14	U	12	U	13	U	12	U	14 U
Benzene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Bromodichloromethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Bromoform	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Bromomethane	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
2-Butanone	10	14	U		R		R	12	U		R	12	U	R
Carbon disulfide	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Carbon tetrachloride	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Chlorobenzene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Chloroethane	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
Chloroform	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Chloromethane	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
Dibromochloromethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,1-Dichloroethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,2-Dichloroethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,1-Dichloroethene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,2-Dichloroethene (total)	5	7	U	10		7	U	6	U	7	U	6	U	7 U
2-Dichloropropane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
cis-1,3-Dichloropropene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
trans-1,3-Dichloropropene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Ethylbenzene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
2-Hexanone	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
Methylene chloride	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
4-Methyl-2-pentanone	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
Styrene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,1,2,2-Tetrachloroethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Tetrachloroethene	5	7	U	130		18	J	6	U	7	U	6	U	7 U
Toluene	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,1,1-Trichloroethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
1,1,2-Trichloroethane	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Trichloroethene	5	7	U	56		8		6	U	7	U	6	U	7 U
Vinyl acetate	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
Vinyl chloride	10	14	U	15	U	14	U	12	U	13	U	12	U	14 U
Xylene (total)	5	7	U	7	U	7	U	6	U	7	U	6	U	7 U
Total TICs		NA		NA		NA		NA		NA		NA		NA

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 20

Sediment Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Analyses
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-07-01	SED-07-02	SED-13-01	SED-13-02	SED-14-01	SED-14-02	SED-14-03
Latitude:		42-52-34	42-52-34	42-52-36	42-52-36	42-52-37	42-52-37	42-52-37
Longitude:		73-09-13	73-09-13	73-09-02	73-09-02	73-09-03	73-09-03	73-09-03
Sample ID #:		Q5879	R9677	Q5880	S0018	Q5881	R9857	0008-SA
Sample Date:		9/22/92	4/13/93	9/22/92	4/15/93	9/22/92	4/14/93	11/17/93
Percent Solids Results:		68%	76%	65%	49%	56%	75%	74%
Compound	Detection Limit							
Acetone	10	15 U	13 U	15 U	20 U	18 U	30	26 J
Benzene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Bromodichloromethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Bromoform	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Bromomethane	10	15 U	13 U	15 U	20 U	18 U	13 U	13 UJ
2-Butanone	10	15 U	R	15 U	R	18 U	R	13 U
Carbon disulfide	5	7 U	7 U	8 U	10 U	9 U	7 U	2.6 J
Carbon tetrachloride	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Chlorobenzene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Chloroethane	10	15 U	13 U	15 U	20 U	18 U	13 U	13 U
Chloroform	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Chloromethane	10	15 U	13 U	15 U	20 U	18 U	13 U	13 U
Dibromochloromethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,1-Dichloroethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,2-Dichloroethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,1-Dichloroethene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,2-Dichloroethene (total)	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,2-Dichloropropane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
cis-1,3-Dichloropropene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
trans-1,3-Dichloropropene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Ethylbenzene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
2-Hexanone	10	15 U	13 U	15 U	20 U	18 U	13 U	13 U
Methylene chloride	5	7 U	7 U	8 U	10 U	9 U	7 U	2.5 J
4-Methyl-2-pentanone	10	15 U	13 U	15 U	20 U	18 U	13 U	13 U
Styrene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,1,2,2-Tetrachloroethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Tetrachloroethene	5	7 U	9 J	8 U	10 U	9 U	21	6.5 U
Toluene	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,1,1-Trichloroethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
1,1,2-Trichloroethane	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Trichloroethene	5	7 U	8	8 U	10 U	9 U	32	6.5 U
Vinyl acetate	10	15 U	13 U	15 U	20 U	18 U	13 U	13 U
Vinyl chloride	10	15 U	13 U	15 U	20 U	18 U	13 U	13 U
Xylene (total)	5	7 U	7 U	8 U	10 U	9 U	7 U	6.5 U
Total TICs		NA	NA	NA	NA	NA	NA	

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 20

Sediment Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Analyses
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-15-01	SED-15-02	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*
Latitude:		42-52-36	42-52-36	NA	NA	NA	NA
Longitude:		73-09-04	73-09-04	NA	NA	NA	NA
Sample ID #:		Q5882	R9856	Q5875	Q5905	R9850	S0021
Sample Date:		9/22/92	4/14/93	9/22/92	9/23/92	4/14/93	4/15/93
Percent Solids Results:		56%	64%	NA	NA	NA	NA
Compound	Detection Limit						
Acetone	10	59 UJ	150	17	10 U	10 U	10 U
Benzene	5	9 U	8 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5	9 U	8 U	5 U	5 U	5 U	5 U
Bromoform	5	9 U	8 U	5 U	5 U	5 U	5 U
Bromomethane	10	18 U	16 U	10 U	10 U	10 U	0 U
2-Butanone	10	18 U	29 UJ	R	R	31 J	39 J
Carbon disulfide	5	9 U	8 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	9 U	8 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	9 U	8 U	5 U	5 U	5 U	5 U
Chloroethane	10	18 U	16 U	10 U	10 U	10 U	10 U
Chloroform	5	9 U	8 U	5 U	5 U	5 U	5 U
Chloromethane	10	18 U	16 U	10 U	10 U	10 U	0 U
Dibromochloromethane	5	9 U	8 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	9 U	8 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	9 U	8 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	9 U	8 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	9 U	8 U	5 U	5 U	5 U	5 U
,2-Dichloropropane	5	9 U	8 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	9 U	8 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	9 U	8 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	9 U	8 U	5 U	5 U	5 U	5 U
2-Hexanone	10	18 U	16 U	10 U	10 U	10 U	10 U
Methylene chloride	5	9 U	8 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	18 U	16 U	10 U	10 U	10 U	10 U
Styrene	5	9 U	8 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	9 U	8 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	9 U	8 U	5 U	5 U	5 U	5 U
Toluene	5	9 U	8 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5	9 U	8 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	9 U	8 U	5 U	5 U	5 U	5 U
Trichloroethene	5	9 U	8 U	5 U	5 U	5 U	5 U
Vinyl acetate	10	18 U	16 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	18 U	16 U	10 U	10 U	10 U	10 U
Xylene (total)	5	9 U	8 U	5 U	5 U	5 U	5 U
Total TICs		NA	NA	NA	NA	24 J	31 J

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 20

Sediment Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Analyses
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		QC TR BK*		BLDUP	
Latitude:		NA		NA	
Longitude:		NA		NA	
Sample ID #:		R9678		0009-SA	
Sample Date:		4/13/93		11/17/93	
Percent Solids Results:		NA		NA	
Compound	Detection Limit				
Acetone	10	10	U	930	J
Benzene	5	5	U	61	U
Bromodichloromethane	5	5	U	61	U
Bromoform	5	5	U	61	U
Bromomethane	10	10	U	120	UJ
2-Butanone	10		R	120	U
Carbon disulfide	5	5	U	61	U
Carbon tetrachloride	5	5	U	61	U
Chlorobenzene	5	5	U	61	U
Chloroethane	10	10	U	120	U
Chloroform	5	5	U	61	U
Chloromethane	10	10	U	120	U
Dibromochloromethane	5	5	U	61	U
1,1-Dichloroethane	5	5	U	61	U
1,2-Dichloroethane	5	5	U	61	U
1,1-Dichloroethene	5	5	U	61	U
1,2-Dichloroethene (total)	5	5	U	61	U
1,2-Dichloropropane	5	5	U	61	U
cis-1,3-Dichloropropene	5	5	U	61	U
trans-1,3-Dichloropropene	5	5	U	61	U
Ethylbenzene	5	5	U	120	U
2-Hexanone	10	10	U	61	U
Methylene chloride	5	5	U	61	U
4-Methyl-2-pentanone	10	10	U	120	U
Styrene	5	5	U	61	U
1,1,2,2-Tetrachloroethane	5	5	U	61	U
Tetrachloroethene	5	5	U	61	U
Toluene	5	5	U	61	U
1,1,1-Trichloroethane	5	5	U	61	U
1,1,2-Trichloroethane	5	5	U	61	U
Trichloroethene	5	5	U	61	U
Vinyl acetate	10	10	U	120	U
Vinyl chloride	10	10	U	120	U
Xylene (total)	5	5	U	61	U
Total TICs		NA			

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
** Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
TOC – Total Organic Carbon.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] – Subcontracted to Hudson Environmental Services.

Table 20A

Sediments Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

	DESCRIPTION/LOCATION:	SED-01A-01	SED-01A-02	SED-01B-01	SED-01B-02	SED-08-01	SED-08-02	SED-02-01
	Latitude:	42-52-43	42-52-43	42-52-40	42-52-40	42-52-43	42-52-43	42-52-38
	Longitude:	73-08-56	73-08-56	73-08-59	73-08-59	73-08-57	73-08-57	73-09-00
	Sample ID #:	Q5916	S0019	Q5917	S0017	Q5911	S0020	Q5910
	Sample Date:	9/23/92	4/15/93	9/23/92	4/15/93	9/23/92	4/15/93	9/23/92
	Percent Solids Results:	58%	55%	48%	56%	70%	55%	48%
	Detection Limit							
TOC [1]	1	45,639	42,918	73,335	31,745	10,715	20,237	38,684

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Table 20A

Sediments Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-02-02	SED-09-01	SED-09-02	SED-10-01	SED-10-02	SED-11-01	SED-11-02
Latitude:		42-52-38	42-52-40	42-52-40	42-52-41	42-52-41	42-52-39	42-52-39
Longitude:		73-09-00	73-09-00	73-09-00	73-08-59	73-08-59	73-09-00	73-09-00
Sample ID #:		R9851	Q5912	R9852	Q5913	S0016	Q5914	R9853
Sample Date:		4/14/93	9/23/92	4/14/93	9/23/92	4/15/93	9/23/92	4/14/93
Percent Solids Results:		50%	54%	47%	78%	76%	42%	51%
	Detection Limit							
TOC [1]	1	24,372	23,986	8,740	3,649	5,412	34,969	22,972

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Table 20A

Sediments Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

			SED-12-01					
	DESCRIPTION/LOCATION:	SED-12-01	BLDUP	SED-12-02	SED-03-01	SED-03-02	SED-04-01	SED-04-02
	Latitude:	42-52-38	42-52-38	42-52-38	42-52-37	42-52-37	42-52-35	42-52-35
	Longitude:	73-09-01	73-09-01	73-09-01	73-09-02	73-09-02	73-09-08	73-09-08
	Sample ID #:	Q5915	Q5918	R9854	Q5877	R9855	Q5878	R9674
	Sample Date:	9/23/92	9/23/92	4/14/93	9/22/92	4/14/93	9/22/92	4/13/93
	Percent Solids Results:	69%	71%	56%	49%	44%	70%	68%
	Detection Limit							
TOC [1]	1	14,071	17,803	13,221	29,749	10,738	11,526	25,373

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Table 20A

Sediments Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

		SED-04-02						
	DESCRIPTION/LOCATION:	BLDUP	SED-05-01	SED-05-02	SED-06-01	SED-06-02	SED-07-01	SED-07-02
	Latitude:	42-52-35	42-52-33	42-52-33	42-52-33	42-52-33	42-52-34	42-52-34
	Longitude:	73-09-08	73-09-15	73-09-15	73-09-13	73-09-13	73-09-13	73-09-13
	Sample ID #:	R9679	Q5781	R9675	Q5783	R9676	Q5879	R9677
	Sample Date:	4/13/93	9/21/92	4/13/93	9/21/92	4/13/93	9/22/92	4/13/93
	Percent Solids Results:	74%	81%	76%	80%	70%	68%	76%
	Detection Limit							
TOC [1]	1	7,542	1,281	7,018	1,364	5,600	16,206	6,464

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
NA - Not Applicable.
[1] - Subcontracted to Hudson Environmental Services.

Table 20A

Sediments Total Organic Carbons
Burgess Brothers Superfund Analyses
Remedial Investigation
Woodford and Bennington, Vermont

	DESCRIPTION/LOCATION:	SED-13-01	SED-13-02	SED-14-01	SED-14-02	SED-15-01	SED-15-02	FEQBLK
	Latitude:	42-52-36	42-52-36	42-52-37	42-52-37	42-52-36	42-52-36	NA
	Longitude:	73-09-02	73-09-02	73-09-03	73-09-03	73-09-04	73-09-04	NA
	Sample ID #:	Q5880	S0018	Q5881	R9857	Q5882	R9856	Q5875
	Sample Date:	9/22/92	4/15/93	9/22/92	4/14/93	9/22/92	4/14/93	9/22/92
	Percent Solids Results:	65%	49%	58%	75%	56%	64%	NA
	Detection Limit							
TOC [1]	1	8,218	31,446	20,463	5,798	25,898	16,079	1

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Sediments Total Organic Carbons
Burgess Brothers Superfund Analyses
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		FEQBLK	
Latitude:		NA	
Longitude:		NA	
Sample ID #:		Q5905	
Sample Date:		9/23/92	
Percent Solids Results:		NA	
	Detection Limit		
TOC [1]	1	1	U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
NA – Not Applicable.
[1] – Subcontracted to Hudson Environmental Services.

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-01A-01	SED-01A-02	SED-01B-01	SED-01B-02	SED-08-01	SED-08-02
Latitude:		42-52-43	42-52-43	42-52-40	42-52-40	42-52-43	42-52-43
Longitude:		73-08-56	73-08-56	73-08-59	73-08-59	73-08-57	73-08-57
Sample ID#:		Q5916	S0014	Q5917	S0012	Q5911	S0015
Sample Date:		9/23/92	4/15/93	9/23/92	4/15/93	9/23/92	4/15/93
Percent Solids Results:		58%	52%	48%	56%	70%	55%
Compound	Detection Limit						
Phenol	330	570 U	630 U	690 U	590 U	470 U	600 U
Bis(2-chloroethyl)ether	330	570 U	630 U	690 U	590 U	470 U	600 U
2-chlorophenol	330	570 U	630 U	690 U	590 U	470 U	600 U
1,3-Dichlorobenzene	330	570 U	630 U	690 U	590 U	470 U	600 U
1,4 Dichlorobenzene	330	570 U	630 U	690 U	590 U	470 U	600 U
Benzyl Alcohol	330	570 U	630 U	690 U	590 U	470 U	600 U
1,2-Dichlorobenzene	330	570 U	630 U	690 U	590 U	470 U	600 U
2-Methylphenol	330	570 U	630 U	690 U	590 U	470 U	600 U
Bis(2-chloroisopropyl)ether	330	570 U	630 U	690 U	590 U	470 U	600 U
4-Methylphenol	330	570 U	630 U	690 U	590 U	470 U	600 U
N-Nitroso-di-n-propylamine	330	570 U	630 U	690 U	590 U	470 U	600 U
Hexachloroethane	330	570 U	630 U	690 U	590 U	470 U	600 U
Nitrobenzene	330	570 U	630 U	690 U	590 U	470 U	600 U
Isophorone	330	570 U	630 U	690 U	590 U	470 U	600 U
2-Nitrophenol	330	570 U	630 U	690 U	590 U	470 U	600 U
2,4-Dimethyphenol	330	570 U	630 U	690 U	590 U	470 U	600 U
Benzoic acid	1600	2800 U	1300 U	3300 U	2900 U	2300 U	2900 U
Bis(2-chloroethoxy)methane	330	570 U	630 U	690 U	590 U	470 U	600 U
2,4-Dichlorophenol	330	570 U	630 U	690 U	590 U	470 U	600 U
1,2,4-Trichlorobenzene	330	570 U	630 U	690 U	590 U	470 U	600 U
Naphthalene	330	570 U	630 U	690 U	590 U	470 U	600 U
4-Chloroaniline	330	570 U	630 U	690 U	590 U	470 U	600 U
Hexachlorobutadiene	330	570 U	630 U	690 U	590 U	470 U	600 U
4-Chloro-3-methylphenol	330	570 U	630 U	690 U	590 U	470 U	600 U
2-methylnaphthalene	330	570 U	630 U	690 U	590 U	470 U	600 U
Hexachlorocyclopentadiene	330	570 U	630 U	690 U	590 U	470 U	600 U
2,4,6-Trichlorophenol	330	570 U	630 U	690 U	590 U	470 U	600 U
2,4,5-Trichlorophenol	1600	2800 U	3100 U	3300 U	2900 U	2300 U	2900 U
2-Chloronaphthalene	330	570 U	630 U	690 U	590 U	470 U	600 U
2-Nitroaniline	1600	2800 U	3100 U	3300 U	2900 U	2300 U	2900 U
Dimethylphthalate	330	570 U	630 U	690 U	590 U	470 U	600 U
Acenaphthylene	330	570 U	630 U	690 U	590 U	470 U	600 U
2,6-Dinitrotoluene	330	570 U	630 U	690 U	590 U	470 U	600 U
3-Nitroaniline	1600	2800 U	3100 U	3300 U	2900 U	2300 U	2900 U
Acenaphthene	330	570 U	630 U	690 U	590 U	470 U	600 U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-01A-01		SED-01A-02		SED-01B-01		SED-01B-02		SED-08-01		SED-08-02	
Latitude:		42-52-43		42-52-43		42-52-40		42-52-40		42-52-43		42-52-43	
Longitude:		73-08-56		73-08-56		73-08-59		73-08-59		73-08-57		73-08-57	
Sample ID#:		Q5916		S0014		Q5917		S0012		Q5911		S0015	
Sample Date:		9/23/92		4/15/93		9/23/92		4/15/93		9/23/92		4/15/93	
Percent Solids Results:		58%		52%		48%		56%		70%		55%	
Compound	Detection Limit												
2,4-Dinitrophenol	1600	2800	U	3100	U	3300	U	2900	U	2300	U	2900	U
4-Nitrophenol	1600	2800	U	3100	U	3300	U	2900	U	2300	U	2900	U
Dibenzofuran	330	570	U	630	U	690	U	590	U	470	U	600	U
2,4-Dinitrotoluene	330	570	U	630	U	690	U	590	U	470	U	600	U
Diethylphthalate	330	570	U	630	U	690	U	590	U	470	U	600	U
4-Chlorophenyl-phenylether	330	570	U	630	U	690	U	590	U	470	U	600	U
Fluorene	330	570	U	630	U	690	U	590	U	470	U	600	U
4-Nitroniline	1600	2800	U	3100	U	3300	U	2900	U	2300	U	2900	U
4,6-Dinitro-2-methylphenol	1600	2800	U	3100	U	3300	U	2900	U	2300	U	2900	U
N-Nitrosodiphenylamine	330	570	U	630	U	690	U	590	U	470	U	600	U
4-Bromopheenyl-phenylether	330	570	U	630	U	690	U	590	U	470	U	600	U
Hexachlorobenzene	330	570	U	630	U	690	U	590	U	470	U	600	U
Pentachlorophenol	1600	2800	U	3100	U	3300	U	2900	U	2300	U	2900	U
Phenanthrene	330	570	U	630	U	690	U	590	U	470	U	600	U
Anthracene	330	570	U	630	U	690	U	590	U	470	U	600	U
Di-n-butylphthalate	330	570	U	630	U	690	U	590	U	470	U	600	U
Fluoranthene	330	570	U	630	U	690	U	590	U	470	U	600	U
Pyrene	330	570	U	630	U	690	U	590	U	470	U	600	U
Butylbenzylphthalate	330	570	U	630	U	690	U	590	U	470	U	600	U
3,3'-Dichlorobenzidine	660	1100	U	1300	U	1400	U	1200	U	940	U	1200	U
Benzo(a)anthracene	330	570	U	630	U	690	U	590	U	470	U	600	U
Chrysesn	330	570	U	630	U	690	U	590	U	470	U	600	U
Bis(2-ethylhexyl)phthalate	330	570	U	630	U	690	U	590	U	470	U	600	U
Di-n-octylphthalate	330	570	U	630	U	690	U	590	U	470	U	600	U
Benzo(b)fluoranthene	330	570	U	630	U	690	U	590	U	470	U	600	U
Benzo(k)fluoranthene	330	570	U	630	U	690	U	590	U	470	U	600	U
Benzo(a)pyrene	330	570	U	630	U	690	U	590	U	470	U	600	U
Indeno(1,2,3-cd)pyrene	330	570	U	630	U	690	U	590	U	470	U	600	U
Dibenz(a,h)anthracene	330	570	U	630	U	690	U	590	U	470	U	600	U
Benzo(g,h,i)perylene	330	570	U	630	U	690	U	590	U	470	U	600	U
Total TICs		15300	J	30650	J	63330	J	21330	J	14410	J	29800	J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-02-01	SED-02-02	SED-09-01	SED-09-02	SED-10-01	SED-10-02
Latitude:		42-52-38	42-52-38	42-52-40	42-52-40	42-52-41	42-52-41
Longitude:		73-09-00	73-09-00	73-09-00	73-09-00	73-08-59	73-08-59
Sample ID#:		Q5910	R9843	Q5912	R9844	Q5913	S0011
Sample Date:		9/23/92	4/14/93	9/23/92	4/14/93	9/23/92	4/15/93
Percent Solids Results:		46%	50%	54%	47%	78%	76%
Compound	Detection Limit						
Phenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Bis(2-chloroethyl)ether	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2-chlorophenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
1,3-Dichlorobenzene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
1,4 Dichlorobenzene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Benzyl Alcohol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
1,2-Dichlorobenzene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2-Methylphenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Bis(2-chloroisopropyl)ether	330	610 UJ	660 U	600 U	700 U	420 U	430 U
4-Methylphenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
N-Nitroso-di-n-propylamine	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Hexachloroethane	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Nitrobenzene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Isophorone	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2-Nitrophenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2,4-Dimethyphenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Benzoic acid	1600	3000 UJ	3200 U	2900 U	3400 U	2100 U	2100 U
Bis(2-chloroethoxy)methane	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2,4-Dichlorophenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
1,2,4-Trichlorobenzene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Naphthalene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
4-Chloroaniline	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Hexachlorobutadiene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
4-Chloro-3-methylphenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2-methylnaphthalene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Hexachlorocyclopentadiene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2,4,6-Trichlorophenol	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2,4,5-Trichlorophenol	1600	3000 UJ	3200 U	2900 U	3400 U	2100 U	2100 U
2-Chloronaphthalene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2-Nitroaniline	1600	3000 UJ	3200 U	2900 U	3400 U	2100 U	2100 U
Dimethylphthalate	330	610 UJ	660 U	600 U	700 U	420 U	430 U
Acenaphthylene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
2,6-Dinitrotoluene	330	610 UJ	660 U	600 U	700 U	420 U	430 U
3-Nitroaniline	1600	3000 UJ	3200 U	2900 U	3400 U	2100 U	2100 U
Acenaphthene	330	610 UJ	660 U	600 U	700 U	420 U	430 U

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-02-01		SED-02-02		SED-09-01		SED-09-02		SED-10-01		SED-10-02	
Latitude:		42-52-38		42-52-38		42-52-40		42-52-40		42-52-41		42-52-41	
Longitude:		73-09-00		73-09-00		73-09-00		73-09-00		73-08-59		73-08-59	
Sample ID#:		Q5910		R9843		Q5912		R9844		Q5913		S0011	
Sample Date:		9/23/92		4/14/93		9/23/92		4/14/93		9/23/92		4/15/93	
Percent Solids Results:		46%		50%		54%		47%		78%		76%	
Compound	Detection Limit												
2,4-Dinitrophenol	1600	3000	UJ	3200	UJ	2900	U	3400	UJ	2100	U	2100	U
4-Nitrophenol	1600	3000	UJ	3200	U	2900	U	3400	U	2100	U	2100	U
Dibenzofuran	330	610	UJ	660	U	600	U	700	U	420	U	430	U
2,4-Dinitrotoluene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Diethylphthalate	330	610	UJ	660	U	600	U	700	U	420	U	430	U
4-Chlorophenyl-phenylether	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Fluorene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
4-Nitroniline	1600	3000	UJ	3200	U	2900	U	3400	U	2100	U	2100	U
4,6-Dinitro-2-methylphenol	1600	3000	UJ	3200	UJ	2900	U	3400	UJ	2100	U	2100	U
N-Nitrosodiphenylamine	330	610	UJ	660	U	600	U	700	U	420	U	430	U
4-Bromopheenyl-phenylether	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Hexachlorobenzene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Pentachlorophenol	1600	3000	UJ	3200	U	2900	U	3400	U	2100	U	2100	U
Phenanthrene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Anthracene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Di-n-butylphthalate	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Fluoranthene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Pyrene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Butylbenzylphthalate	330	610	UJ	660	U	600	U	700	U	420	U	430	U
3,3'-Dichlorobenzidine	660	1200	UJ	1300	U	1200	U	1400	U	850	U	870	U
Benzo(a)anthracene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Chrysesn	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Bis(2-ethylhexyl)phthalate	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Di-n-octylphthalate	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Benzo(b)fluoranthene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Benzo(k)fluoranthene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Benzo(a)pyrene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Indeno(1,2,3-cd)pyrene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Dibenz(a,h)anthracene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Benzo(g,h,i)perylene	330	610	UJ	660	U	600	U	700	U	420	U	430	U
Total TICs		69280	J	40160	J	67670	J	47000	J	9450	J	10490	J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-11-01	SED-11-02	SED-12-01	SED-12-01 BLDUP	SED-12-02	SED-03-01
Latitude:	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-37
Longitude:	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-02
Sample ID#:	Q5914	R9845	Q5915	Q5918	R9846	Q5877
Sample Date:	9/23/92	4/14/93	9/23/92	9/23/92	4/14/93	9/22/92
Percent Solids Results:	42%	51%	69%	71%	56%	49%

Compound	Detection Limit						
Phenol	330	790 U	650 U	480 U	460 U	590 U	670 U
Bis(2-chloroethyl)ether	330	790 U	650 U	480 U	460 U	590 U	670 U
2-chlorophenol	330	790 U	650 U	480 U	460 U	590 U	670 U
1,3-Dichlorobenzene	330	790 U	650 U	480 U	460 U	590 U	670 U
1,4 Dichlorobenzene	330	790 U	650 U	480 U	460 U	590 U	670 U
Benzyl Alcohol	330	790 U	650 U	480 U	460 U	590 U	670 U
1,2-Dichlorobenzene	330	790 U	650 U	480 U	460 U	590 U	670 U
2-Methylphenol	330	790 U	650 U	480 U	460 U	590 U	670 U
Bis(2-chloroisopropyl)ether	330	790 U	650 U	480 U	460 U	590 U	670 U
4-Methylphenol	330	790 U	650 U	480 U	460 U	590 U	670 U
N-Nitroso-di-n-propylamine	330	790 U	650 U	480 U	460 U	590 U	670 U
Hexachloroethane	330	790 U	650 U	480 U	460 U	590 U	670 U
Nitrobenzene	330	790 U	650 U	480 U	460 U	590 U	670 U
Isophorone	330	790 U	650 U	480 U	460 U	590 U	670 U
2-Nitrophenol	330	790 U	650 U	480 U	460 U	590 U	670 U
2,4-Dimethyphenol	330	790 U	650 U	480 U	460 U	590 U	670 U
Benzoic acid	1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
Bis(2-chloroethoxy)methane	330	790 U	650 U	480 U	460 U	590 U	670 U
2,4-Dichlorophenol	330	790 U	650 U	480 U	460 U	590 U	670 U
1,2,4-Trichlorobenzene	330	790 U	650 U	480 U	460 U	590 U	670 U
Naphthalene	330	790 U	650 U	480 U	460 U	590 U	670 U
4-Chloroaniline	330	790 U	650 U	480 U	460 U	590 U	670 U
Hexachlorobutadiene	330	790 U	650 U	480 U	460 U	590 U	670 U
4-Chloro-3-methylphenol	330	790 U	650 U	480 U	460 U	590 U	670 U
2-methylnaphthalene	330	790 U	650 U	480 U	460 U	590 U	670 U
Hexachlorocyclopentadiene	330	790 U	650 U	480 U	460 U	590 U	670 U
2,4,6-Trichlorophenol	330	790 U	650 U	480 U	460 U	590 U	670 U
2,4,5-Trichlorophenol	1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
2-Chloronaphthalene	330	790 U	650 U	480 U	460 U	590 U	670 U
2-Nitroaniline	1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
Dimethylphthalate	330	790 U	650 U	480 U	460 U	590 U	670 U
Acenaphthylene	330	790 U	650 U	480 U	460 U	590 U	670 U
2,6-Dinitrotoluene	330	790 U	650 U	480 U	460 U	590 U	670 U
3-Nitroaniline	1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
Acenaphthene	330	790 U	650 U	480 U	460 U	590 U	670 U

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-11-01	SED-11-02	SED-12-01	SED-12-01 BLDUP	SED-12-02	SED-03-01
Latitude:	42-52-39	42-52-39	42-52-38	42-52-38	42-52-38	42-52-37
Longitude:	73-09-00	73-09-00	73-09-01	73-09-01	73-09-01	73-09-02
Sample ID#:	Q5914	R9845	Q5915	Q5918	R9846	Q5877
Sample Date:	9/23/92	4/14/93	9/23/92	9/23/92	4/14/93	9/22/92
Percent Solids Results:	42%	51%	69%	71%	56%	49%
Compound / Detection Limit						
2,4-Dinitrophenol 1600	3800 U	3100 UJ	2300 U	2300 U	2900 UJ	3300 U
4-Nitrophenol 1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
Dibenzofuran 330	790 U	650 U	480 U	460 U	590 U	670 U
2,4-Dinitrotoluene 330	790 U	650 U	480 U	460 U	590 U	670 U
Diethylphthalate 330	790 U	650 U	480 U	460 U	590 U	670 U
4-Chlorophenyl-phenylether 330	790 U	650 U	480 U	460 U	590 U	670 U
Fluorene 330	790 U	650 U	480 U	460 U	590 U	670 U
4-Nitroniline 1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
4,6-Dinitro-2-methylphenol 1600	3800 U	3100 UJ	2300 U	2300 U	2900 UJ	3300 U
N-Nitrosodiphenylamine 330	790 U	650 U	480 U	460 U	590 U	670 U
4-Bromopheenyl-phenylether 330	790 U	650 U	480 U	460 U	590 U	670 U
Hexachlorobenzene 330	790 U	650 U	480 U	460 U	590 U	670 U
Pentachlorophenol 1600	3800 U	3100 U	2300 U	2300 U	2900 U	3300 U
Phenanthrene 330	790 U	650 U	480 U	460 U	590 U	670 U
Anthracene 330	790 U	650 U	480 U	460 U	590 U	670 U
Di-n-butylphthalate 330	790 U	650 U	480 U	460 U	590 U	670 U
Fluoranthene 330	790 U	650 U	480 U	460 U	590 U	670 U
Pyrene 330	790 U	650 U	480 U	460 U	590 U	670 U
Butylbenzylphthalate 330	790 U	650 U	480 U	460 U	590 U	670 U
3,3'-Dichlorobenzidine 660	1600 U	1300 U	960 U	930 U	1200 U	1300 U
Benzo(a)anthracene 330	790 U	650 U	480 U	460 U	590 U	670 U
Chryseen 330	790 U	650 U	480 U	460 U	590 U	670 U
Bis(2-ethylhexyl)phthalate 330	790 U	650 U	480 U	460 U	590 U	670 U
Di-n-octylphthalate 330	790 U	650 U	480 U	460 U	590 U	670 U
Benzo(b)fluoranthene 330	790 U	650 U	480 U	460 U	590 U	670 U
Benzo(k)fluoranthene 330	790 U	650 U	480 U	460 U	590 U	670 U
Benzo(a)pyrene 330	790 U	650 U	480 U	460 U	590 U	670 U
Indeno(1,2,3-cd)pyrene 330	790 U	650 U	480 U	460 U	590 U	670 U
Dibenz(a,h)anthracene 330	790 U	650 U	480 U	460 U	590 U	670 U
Benzo(g,h,i)perylene 330	790 U	650 U	480 U	460 U	590 U	670 U
Total TICs	85960 J	36680 J	23000 J	26440 J	24980 J	44690 J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-03-02	SED-04-01	SED-04-02	SED-04-02 BLDUP	SED-05-01	SED-05-02
Latitude:		42-52-37	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33
Longitude:		73-09-02	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15
Sample ID#:		R9847	Q5878	R9669	R9673	Q5782	R9670
Sample Date:		4/14/93	9/22/92	4/13/93	4/13/93	9/21/92	4/13/93
Percent Solids Results:		49%	70%	68%	74%	85%	76%
Compound	Detection Limit						
Phenol	330	670 U	480 U	490 U	450 U	390 U	R
Bis(2-chloroethyl)ether	330	670 U	480 U	490 U	450 U	390 U	R
2-chlorophenol	330	670 U	480 U	490 U	450 U	390 U	R
1,3-Dichlorobenzene	330	670 U	480 U	490 U	450 U	390 U	R
1,4 Dichlorobenzene	330	670 U	480 U	490 U	450 U	390 U	R
Benzyl Alcohol	330	670 U	480 U	490 U	450 U	390 U	R
1,2-Dichlorobenzene	330	670 U	480 U	490 U	450 U	390 U	R
2-Methylphenol	330	670 U	480 U	490 U	450 U	390 U	R
Bis(2-chloroisopropyl)ether	330	670 U	480 U	490 U	450 U	390 U	R
4-Methylphenol	330	670 U	480 U	490 U	450 U	390 U	R
N-Nitroso-di-n-propylamine	330	670 U	480 U	490 U	450 U	390 U	R
Hexachloroethane	330	670 U	480 U	490 U	450 U	390 U	R
Nitrobenzene	330	670 U	480 U	490 U	450 U	390 U	R
Isophorone	330	670 U	480 U	490 U	450 U	390 U	R
2-Nitrophenol	330	670 U	480 U	490 U	450 U	390 U	R
2,4-Dimethyphenol	330	670 U	480 U	490 U	450 U	390 U	R
Benzoic acid	1600	3300 U	2300 U	2400 U	2200 U	1900 U	R
Bis(2-chloroethoxy)methane	330	670 U	480 U	490 U	450 U	390 U	R
2,4-Dichlorophenol	330	670 U	480 U	490 U	450 U	390 U	R
1,2,4-Trichlorobenzene	330	670 U	480 U	490 U	450 U	390 U	R
Naphthalene	330	670 U	480 U	490 U	450 U	390 U	R
4-Chloroaniline	330	670 U	480 U	490 U	450 U	390 U	R
Hexachlorobutadiene	330	670 U	480 U	490 U	450 U	390 U	R
4-Chloro-3-methylphenol	330	670 U	480 U	490 U	450 U	390 U	R
2-methylnaphthalene	330	670 U	480 U	490 U	450 U	390 U	R
Hexachlorocyclopentadiene	330	670 U	480 U	490 U	450 U	390 U	R
2,4,6-Trichlorophenol	330	670 U	480 U	490 U	450 U	390 U	R
2,4,5-Trichlorophenol	1600	3300 U	2300 U	2400 U	2200 U	1900 U	R
2-Chloronaphthalene	330	670 U	480 U	490 U	450 U	390 U	R
2-Nitroaniline	1600	3300 U	2300 U	2400 U	2200 U	1900 U	R
Dimethylphthalate	330	670 U	480 U	490 U	450 U	390 U	R
Acenaphthylene	330	670 U	480 U	490 U	450 U	390 U	R
2,6-Dinitrotoluene	330	670 U	480 U	490 U	450 U	390 U	R
3-Nitroaniline	1600	3300 U	2300 U	2400 U	2200 U	1900 U	R
Acenaphthene	330	670 U	480 U	490 U	450 U	390 U	R

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
ND – Not detected

Table 21

Sediment Semi-volatile Analyses - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-03-02	SED-04-01	SED-04-02	SED-04-02 BLDUP	SED-05-01	SED-05-02
Latitude:	42-52-37	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33
Longitude:	73-09-02	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15
Sample ID#:	R9847	Q5878	R9669	R9673	Q5782	R9670
Sample Date:	4/14/93	9/22/92	4/13/93	4/13/93	9/21/92	4/13/93
Percent Solids Results:	49%	70%	68%	74%	85%	78%

Compound	Detection Limit											
2,4-Dinitrophenol	1600	3300	UJ	2300	U	2400	UJ	2200	UJ	1900	U	R
4-Nitrophenol	1600	3300	U	2300	U	2400	U	2200	U	1900	U	R
Dibenzofuran	330	670	U	480	U	490	U	450	U	390	U	R
2,4-Dinitrotoluene	330	670	U	480	U	490	U	450	U	390	U	R
Diethylphthalate	330	670	U	480	U	490	U	450	U	390	U	R
4-Chlorophenyl-phenylether	330	670	U	480	U	490	U	450	U	390	U	R
Fluorene	330	670	U	480	U	490	U	450	U	390	U	R
4-Nitroniline	1600	3300	U	2300	U	2400	U	2200	U	1900	U	R
4,6-Dinitro-2-methylphenol	1600	3300	UJ	2300	U	2400	UJ	2200	UJ	1900	U	R
N-Nitrosodiphenylamine	330	670	U	480	U	490	U	450	U	390	U	R
4-Bromopheenyl-phenylether	330	670	U	480	U	490	U	450	U	390	U	R
Hexachlorobenzene	330	670	U	480	U	490	U	450	U	390	U	R
Pentachlorophenol	1600	3300	U	2300	U	2400	U	2200	U	1900	U	R
Phenanthrene	330	670	U	480	U	490	U	450	U	390	U	620 J
Anthracene	330	670	U	480	U	490	U	450	U	390	U	R
Di-n-butylphthalate	330	670	U	480	U	490	U	450	U	390	U	R
Fluoranthene	330	670	U	480	U	490	U	450	U	390	U	780 J
Pyrene	330	670	U	480	U	490	U	450	U	390	U	600 J
Butylbenzylphthalate	330	670	U	480	U	490	U	450	U	390	U	R
3,3'-Dichlorobenzidine	660	1300	U	940	U	960	U	900	U	780	U	R
Benzo(a)anthracene	330	670	U	480	U	490	U	450	U	390	U	R
Chryseen	330	670	U	480	U	490	U	450	U	390	U	R
Bis(2-ethylhexyl)phthalate	330	670	U	480	U	490	U	450	U	390	U	R
Di-n-octylphthalate	330	670	U	480	U	490	U	450	U	390	U	R
Benzo(b)fluoranthene	330	670	U	480	U	490	U	450	U	390	U	480 J
Benzo(k)fluoranthene	330	670	U	480	U	490	U	450	U	390	U	R
Benzo(a)pyrene	330	670	U	480	U	490	U	450	U	390	U	R
Indeno(1,2,3-cd)pyrene	330	670	U	480	U	490	U	450	U	390	U	R
Dibenz(a,h)anthracene	330	670	U	480	U	490	U	450	U	390	U	R
Benzo(g,h,i)perylene	330	670	U	480	U	490	U	450	U	390	U	R
Total TICs		75440	J	12870	J	13230	J	11775	J	7170	J	13770 J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.
ND - Not detected

Table 21

Sediment Semi-volatile Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-07-01	SED-07-02	SED-13-01	SED-13-02	SED-14-01	SED-14-02
Latitude:		42-52-34	42-52-34	42-52-36	42-52-36	42-52-37	42-52-37
Longitude:		73-09-13	73-09-13	73-09-02	73-09-02	73-09-03	73-09-03
Sample ID#:		Q5879	R9672	Q5880	S0013	Q5881	R9849
Sample Date:		9/22/92	4/13/93	9/22/92	4/15/93	9/22/92	4/14/93
Percent Solids Results:		68%	76%	65%	49%	56%	75%
Compound	Detection Limit						
Phenol	330	490 U	430 U	500 U	670 U	590 U	440 U
Bis(2-chloroethyl)ether	330	490 U	430 U	500 U	670 U	590 U	440 U
2-chlorophenol	330	490 U	430 U	500 U	670 U	590 U	440 U
1,3-Dichlorobenzene	330	490 U	430 U	500 U	670 U	590 U	440 U
1,4 Dichlorobenzene	330	490 U	430 U	500 U	670 U	590 U	440 U
Benzyl Alcohol	330	490 U	430 U	500 U	670 U	590 U	440 U
1,2-Dichlorobenzene	330	490 U	430 U	500 U	670 U	590 U	440 U
2-Methylphenol	330	490 U	430 U	500 U	670 U	590 U	440 U
Bis(2-chloroisopropyl)ether	330	490 U	430 U	500 U	670 U	590 U	440 U
4-Methylphenol	330	490 U	430 U	500 U	670 U	590 U	440 U
N-Nitroso-di-n-propylamine	330	490 U	430 U	500 U	670 U	590 U	440 U
Hexachloroethane	330	490 U	430 U	500 U	670 U	590 U	440 U
Nitrobenzene	330	490 U	430 U	500 U	670 U	590 U	440 U
Isophorone	330	490 U	430 U	500 U	670 U	590 U	440 U
2-Nitrophenol	330	490 U	430 U	500 U	670 U	590 U	440 U
2,4-Dimethyphenol	330	490 U	430 U	500 U	670 U	590 U	440 U
Benzoic acid	1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
Bis(2-chloroethoxy)methane	330	490 U	430 U	500 U	670 U	590 U	440 U
2,4-Dichlorophenol	330	490 U	430 U	500 U	670 U	590 U	440 U
1,2,4-Trichlorobenzene	330	490 U	430 U	500 U	670 U	590 U	440 U
Naphthalene	330	490 U	430 U	500 U	670 U	590 U	440 U
4-Chloroaniline	330	490 U	430 U	500 U	670 U	590 U	440 U
Hexachlorobutadiene	330	490 U	430 U	500 U	670 U	590 U	440 U
4-Chloro-3-methylphenol	330	490 U	430 U	500 U	670 U	590 U	440 U
2-methylnaphthalene	330	490 U	430 U	500 U	670 U	590 U	440 U
Hexachlorocyclopentadiene	330	490 U	430 U	500 U	670 U	590 U	440 U
2,4,6-Trichlorophenol	330	490 U	430 U	500 U	670 U	590 U	440 U
2,4,5-Trichlorophenol	1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
2-Chloronaphthalene	330	490 U	430 U	500 U	670 U	590 U	440 U
2-Nitroaniline	1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
Dimethylphthalate	330	490 U	430 U	500 U	670 U	590 U	440 U
Acenaphthylene	330	490 U	430 U	500 U	670 U	590 U	440 U
2,6-Dinitrotoluene	330	490 U	430 U	500 U	670 U	590 U	440 U
3-Nitroaniline	1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
Acenaphthene	330	490 U	430 U	500 U	670 U	590 U	440 U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 21

Sediment Semi-volatile Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-07-01	SED-07-02	SED-13-01	SED-13-02	SED-14-01	SED-14-02
Latitude:	42-52-34	42-52-34	42-52-36	42-52-36	42-52-37	42-52-37
Longitude:	73-09-13	73-09-13	73-09-02	73-09-02	73-09-03	73-09-03
Sample ID#:	Q5879	R9672	Q5880	S0013	Q5881	R9849
Sample Date:	9/22/92	4/13/93	9/22/92	4/15/93	9/22/92	4/14/93
Percent Solids Results:	68%	76%	65%	49%	56%	75%
Compound / Detection Limit						
2,4-Dinitrophenol 1600	2400 U	2100 UJ	2400 U	3300 U	2900 U	2100 UJ
4-Nitrophenol 1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
Dibenzofuran 330	490 U	430 U	500 U	670 U	590 U	440 U
2,4-Dinitrotoluene 330	490 U	430 U	500 U	670 U	590 U	440 U
Diethylphthalate 330	490 U	430 U	500 U	670 U	590 U	440 U
4-Chlorophenyl-phenylether 330	490 U	430 U	500 U	670 U	590 U	440 U
Fluorene 330	490 U	430 U	500 U	670 U	590 U	440 U
4-Nitroniline 1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
4,6-Dinitro-2-methylphenol 1600	2400 U	2100 UJ	2400 U	3300 U	2900 U	2100 UJ
N-Nitrosodiphenylamine 330	490 U	430 U	500 U	670 U	590 U	440 U
4-Bromopheenyl-phenylether 330	490 U	430 U	500 U	670 U	590 U	440 U
Hexachlorobenzene 330	490 U	430 U	500 U	670 U	590 U	440 U
Pentachlorophenol 1600	2400 U	2100 U	2400 U	3300 U	2900 U	2100 U
Phenanthrene 330	490 U	430 U	500 U	670 U	590 U	440 U
Anthracene 330	490 U	430 U	500 U	670 U	590 U	440 U
Di-n-butylphthalate 330	490 U	430 U	500 U	670 U	590 U	440 U
Fluoranthene 330	490 U	430 U	500 U	670 U	590 U	440 U
Pyrene 330	490 U	430 U	500 U	670 U	590 U	440 U
Butylbenzylphthalate 330	490 U	430 U	500 U	670 U	590 U	440 U
3,3'-Dichlorobenzidine 660	870 U	860 U	1000 U	1300 U	1200 U	880 U
Benzo(a)anthracene 330	490 U	430 U	500 U	670 U	590 U	440 U
Chrysesn 330	490 U	430 U	500 U	670 U	590 U	440 U
Bis(2-ethylhexyl)phthalate 330	490 U	430 U	500 U	670 U	590 U	440 U
Di-n-octylphthalate 330	490 U	430 U	500 U	670 U	590 U	440 U
Benzo(b)fluoranthene 330	490 U	430 U	500 U	670 U	590 U	440 U
Benzo(k)fluoranthene 330	490 U	430 U	500 U	670 U	590 U	440 U
Benzo(a)pyrene 330	490 U	430 U	500 U	670 U	590 U	440 U
Indeno(1,2,3-cd)pyrene 330	490 U	430 U	500 U	670 U	590 U	440 U
Dibenz(a,h)anthracene 330	490 U	430 U	500 U	670 U	590 U	440 U
Benzo(g,h,i)perylene 330	490 U	430 U	500 U	670 U	590 U	440 U
Total TICs	21780 J	6095 J	5510 J	14770 J	29880 J	12061 J

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 21

Sediment Semi-volatile Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-15-01	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	SED EQBLK
Latitude:		42-52-36	NA	NA	NA	NA	NA
Longitude:		73-09-04	NA	NA	NA	NA	NA
Sample ID#:		Q5882	Q5875	Q5905	R9850*	S0021*	Q5905RS
Sample Date:		9/22/92	9/22/92	9/23/92	4/14/93	4/15/93	9/23/92
Percent Solids Results:		56%	NA	NA	NA	NA	NA
Compound	Detection Limit						
Phenol	330	570 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	330	570 U	10 U	10 U	10 U	10 U	10 U
2-chlorophenol	330	570 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	330	570 U	10 U	10 U	10 U	10 U	10 U
1,4 Dichlorobenzene	330	570 U	10 U	10 U	10 U	10 U	10 U
Benzyl Alcohol	330	570 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	330	570 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	330	570 U	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	330	570 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	330	570 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	330	570 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	330	570 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	330	570 U	10 U	10 U	10 U	10 U	10 U
Isophorone	330	570 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	330	570 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethyphenol	330	570 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	1600	2800 U	50 U	50 U	50 U	50 U	50 U
Bis(2-chloroethoxy)methane	330	570 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	330	570 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	330	570 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	330	570 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	330	570 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	330	570 U	9 U	9 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	330	570 U	10 U	10 U	10 U	10 U	10 U
2-methylnaphthalene	330	570 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	330	570 U	9 U	9 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	330	570 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	1600	2800 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	330	570 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	1600	2800 U	50 U	50 U	50 U	50 U	50 U
Dimethylphthalate	330	570 U	10 U	10 U	10 U	R	10 U
Acenaphthylene	330	570 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	330	570 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	1600	2800 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	330	570 U	10 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
ND – Not detected

Table 21

Sediment Semi-volatile Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-15-01	FEQBLK*	FEQBLK*	FEQBLK*	FEQBLK*	SED EQBLK
Latitude:	42-52-36	NA	NA	NA	NA	NA
Longitude:	73-09-04	NA	NA	NA	NA	NA
Sample ID#:	Q5882	Q5875	Q5905	R9850*	S0021*	Q5905RS
Sample Date:	9/22/92	9/22/92	9/23/92	4/14/93	4/15/93	9/23/92
Percent Solids Results:	56%	NA	NA	NA	NA	NA

Compound	Detection Limit						
2,4-Dinitrophenol	1600	2800 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	1600	2800 U	50 U	50 U	50 U	50 U	50 U
Dibenzofuran	330	570 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	330	570 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	330	570 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	330	570 U	10 U	10 U	10 U	10 U	10 U
Fluorene	330	570 U	10 U	10 U	10 U	10 U	10 U
4-Nitroniline	1600	2800 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	1600	2800 U	50 U	50 U	50 U	50 U	50 U
N-Nitrosodiphenylamine	330	570 U	10 U	10 U	10 U	10 U	10 U
4-Bromopheenyl-phenylether	330	570 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	330	570 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1600	2800 U	25 U	25 U	50 U	50 U	50 U
Phenanthrene	330	570 U	10 U	10 U	10 U	10 U	10 U
Anthracene	330	570 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	330	570 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	330	570 U	10 U	10 U	10 U	10 U	10 U
Pyrene	330	570 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	330	570 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	660	1100 U	20 U	20 U	20 U	20 U	20 U
Benzo(a)anthracene	330	570 U	10 U	50 U	10 U	10 U	10 U
Chrysesn	330	570 U	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	330	570 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	330	570 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	330	570 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	330	570 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	330	570 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	330	570 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	330	570 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	330	570 U	10 U	10 U	10 U	10 U	10 U
Total TICs		30640 J	56 J	16 J	34 J	4 J	ND

NOTES: Values reported in µg/kg dry weight (ppb) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
ND – Not detected

Table 22

Sediment Pesticide/PCB Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Burlington, Vermont

DESCRIPTION/LOCATION		SED-01A-01	SED-01A-02	SED-01B-01	SED-01B-02	SED-08-01	SED-08-02	SED-02-01	SED-02-02
Latitude:		42-52-43	42-52-43	42-52-40	42-52-40	42-52-43	42-52-43	42-52-38	42-52-38
Longitude:		73-08-56	73-08-56	73-08-59	73-08-59	73-08-57	73-08-57	73-09-00	73-09-00
Sample ID:		Q5916	S0014	Q5917	S0012	Q5911	S0015	Q5910	R9843
Sample Date:		9/23/92	4/15/93	9/23/92	4/15/93	9/23/92	4/15/93	9/23/92	4/14/93
Percent Solids Results:		58%	52%	48%	56%	70%	55%	46%	50%
Compound	Detection Limit								
alpha-BHC	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
gamma-BHC	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
beta-BHC	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
Heptachlor	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
delta-BHC	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
Aldrin	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
Heptachlor epoxide	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
Endosulfan I	8	14 U	3.1 U	17 U	3 U	11 U	3.1 U	17 U	3.4 U
4,4'-DDE	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
Dieldrin	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
Endrin	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
4,4'-DDD	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
Endosulfan II	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
4,4'- DDT	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
Endosulfan Sulfate	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
Endrin Aldehyde	16	R	6 U	R	5.9 U	R	6 U	R	6.6 U
Methoxychlor	80	140 U	31 U	17 U	30 U	110 U	31 U	170 U	34 U
Endrin ketone	16	28 U	6 U	34 U	5.9 U	22 U	6 U	34 U	6.6 U
Chlordane	80	140 U	3.1 U	170 U	3 U	110 U	3.1 U	170 U	3.4 U
Toxaphene	160	280 U	310 U	340 U	300 U	220 U	310 U	340 U	340 U
PCB-1221	*	280 U	60 U	340 U	59 U	220 U	60 U	340 U	66 U
PCB-1232	*	280 U	60 U	340 U	59 U	220 U	60 U	340 U	66 U
PCB-1016/1242	*	280 U	60 U	340 U	59 U	220 U	60 U	340 U	66 U
PCB-1248	*	280 U	60 U	340 U	59 U	220 U	60 U	340 U	66 U
PCB-1254	*	280 U	60 U	340 U	59 U	220 U	60 U	340 U	74 J
PCB-1260	*	280 U	60 U	340 U	59 U	220 U	60 U	340 U	66 U

NOTES:

Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Detection limit for total PCBs is 160.
**Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 22

Sediment Pesticide/PCB Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		SED-09-01	SED-09-02	SED-10-01	SED-10-02	SED-11-01	SED-11-02	SED-12-01	SED-12-01 BLDUP
Latitude:		42-52-40	42-52-40	42-52-41	42-52-41	42-52-39	42-52-39	42-52-38	42-52-38
Longitude:		73-09-00	73-09-00	73-08-59	73-08-59	73-09-00	73-09-00	73-09-01	73-09-01
Sample ID:		Q5912	R9844	Q5913	S0011	Q5914	R9845	Q5915	Q5918
Sample Date:		9/23/92	4/14/93	9/23/92	4/15/93	9/23/92	4/14/93	9/23/92	9/23/92
Percent Solids Results:		54%	47%	78%	76%	42%	51%	69%	71%
Compound	Detection Limit								
alpha-BHC	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
gamma-BHC	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
beta-BHC	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
Heptachlor	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
delta-BHC	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
Aldrin	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
Heptachlor epoxide	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
Endosulfan I	8	15 U	3.6 U	10 U	2.2 U	19 U	3.3 U	12 U	11 U
4,4'-DDE	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
Dieldrin	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
Endrin	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
4,4'-DDD	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
Endosulfan II	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
4,4'- DDT	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
Endosulfan Sulfate	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
Endrin Aldehyde	16	R	7 U	R	4.3 U	R	6.5 U	R	R
Methoxychlor	80	150 U	36 U	100 U	22 U	190 U	33 U	120 U	11 U
Endrin ketone	16	30 U	7 U	20 U	4.3 U	38 U	6.5 U	24 U	22 U
Chlordane	80	130 U	3.6 U	100 U	2.2 U	190 U	3.3 U	120 U	110 U
Toxaphene	160	300 U	360 U	200 U	220 U	380 U	330 U	240 U	220 U
PCB-1221	*	300 U	70 U	200 U	43 U	380 U	65 U	240 U	220 U
PCB-1232	*	300 U	70 U	200 U	43 U	380 U	65 U	240 U	220 U
PCB-1016/1242	*	300 U	70 U	200 U	43 U	380 U	65 U	240 U	220 U
PCB-1248	*	300 U	70 U	200 U	43 U	380 U	65 U	240 U	220 U
PCB-1254	*	300 U	70 U	200 U	43 U	380 U	65 U	240 U	220 U
PCB-1260	*	300 U	70 U	200 U	43 U	380 U	65 U	240 U	220 U

NOTES:

Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Detection limit for total PCBs is 160.
**Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 22

Sediment Pesticide/PCB Analyses - Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Burlington, Vermont

DESCRIPTION/LOCATION		SED-12-02	SED-03-01	SED-03-02	SED-04-01	SED-04-02	SED-04-02 BLDUP	SED-05-01	SED-05-02
Latitude:		42-52-38	42-52-37	42-52-37	42-52-35	42-52-35	42-52-35	42-52-33	42-52-33
Longitude:		73-09-01	73-09-02	73-09-02	73-09-08	73-09-08	73-09-08	73-09-15	73-09-15
Sample ID:		R9846	Q5877	R9847	Q5878	R9669	R9673	Q5782	R9670
Sample Date:		4/14/93	9/22/92	4/14/93	9/22/92	4/13/93	4/13/93	9/21/92	4/13/93
Percent Solids Results:		56%	49%	49%	70%	68%	74%	85%	76%
Compound	Detection Limit								
alpha-BHC	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
gamma-BHC	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
beta-BHC	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
Heptachlor	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
delta-BHC	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
Aldrin	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
Heptachlor epoxide	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
Endosulfan I	8	3 U	16 U	3.5 U	11 U	2.5 U	2.3 U	9 U	2.2 U
4,4'-DDE	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
Dieldrin	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
Endrin	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
4,4'-DDD	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
Endosulfan II	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
4,4'- DDT	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	6.4 J
Endosulfan Sulfate	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
Endrin Aldehyde	16	5.9 U	R	6.7 U	R	4.9 U	4.5 U	R	4.3 U
Methoxychlor	80	30 U	16 U	35 U	110 U	25 U	23 U	90 U	22 U
Endrin ketone	16	5.9 U	32 U	6.7 U	22 U	4.9 U	4.5 U	18 U	4.3 U
Chlordane	80	3 U	160 U	3.5 U	110 U	2.5 U	2.3 U	90 U	2.2 U
Toxaphene	160	300 U	320 U	350 U	220 U	250 U	230 U	180 U	220 U
PCB-1221	*	59 U	320 U	67 U	220 U	49 U	45 U	180 U	43 U
PCB-1232	*	59 U	320 U	67 U	220 U	49 U	45 U	180 U	43 U
PCB-1016/1242	*	59 U	320 U	67 U	220 U	49 U	45 U	180 U	43 U
PCB-1248	*	59 U	320 U	67 U	220 U	49 U	45 U	180 U	43 U
PCB-1254	*	59 U	320 U	67 U	220 U	49 U	45 U	180 U	43 U
PCB-1260	*	59 U	320 U	67 U	220 U	49 U	45 U	180 U	43 U

NOTES:

Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Detection limit for total PCBs is 160.
**Values reported in µg/l (ppb).
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximated.

Table 22

Sediment Pesticide/PCB Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		SED-07-01	SED-07-02	SED-13-01	SED-13-02	SED-14-01	SED-14-02	FEQBLK**	FEQBLK**
Latitude:		42-52-34	42-52-34	42-52-36	42-52-36	42-52-37	42-52-37	NA	NA
Longitude:		73-09-13	73-09-13	73-09-02	73-09-02	73-09-03	73-09-03	NA	NA
Sample ID:		Q5879	R9672	Q5880	S0013	Q5881	R9849	Q5875	Q5905
Sample Date:		9/22/92	4/13/93	9/22/92	4/15/93	9/22/92	4/14/93	9/22/92	9/23/92
Percent Solids Results:		68%	76%	65%	49%	56%	75%	NA	NA
Compound	Detection Limit								
alpha-BHC	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
gamma-BHC	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
beta-BHC	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
Heptachlor	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
delta-BHC	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
Aldrin	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
Heptachlor epoxide	8	12 U	2.2 U	12 U	3.5 U	14 U	2.3 U	0.05 U	0.05 U
Endosulfan I	8	12 U	2.2 U	12 U	3.5 U	14 U	4.4 U	0.05 U	0.05 U
4,4'-DDE	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.1 U	0.1 U
Dieldrin	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.013 U	0.013 U
Endrin	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.027 U	0.027 U
4,4'-DDD	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.1 U	0.1 U
Endosulfan II	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.056 U	0.056 U
4,4'- DDT	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.05 U	0.05 U
Endosulfan Sulfate	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.1 U	0.1 U
Endrin Aldehyde	16	R	4.3 U	R	6.7 U	R	4.4 U	R	R
Methoxychlor	80	120 U	22 U	120 U	35 U	140 U	23 U	0.2 U	0.2 U
Endrin ketone	16	24 U	4.3 U	24 U	6.7 U	28 U	4.4 U	0.1 U	0.1 U
Chlordane	80	120 U	2.2 U	120 U	3.5 U	140 U	2.3 U	0.05 U	0.05 U
Toxaphene	160	240 U	220 U	240 U	350 U	280 U	230 U	1 U	1 U
PCB-1221	*	240 U	43 U	240 U	67 U	280 U	44 U	0.5 U	0.5 U
PCB-1232	*	240 U	43 U	240 U	67 U	280 U	44 U	0.5 U	0.5 U
PCB-1016/1242	*	240 U	43 U	240 U	67 U	280 U	44 U	0.5 U	0.5 U
PCB-1248	*	240 U	43 U	240 U	67 U	280 U	44 U	0.5 U	0.5 U
PCB-1254	*	240 U	43 U	240 U	67 U	280 U	44 U	0.5 U	0.5 U
PCB-1260	*	240 U	43 U	240 U	67 U	280 U	44 U	0.5 U	0.5 U

NOTES:

Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Detection limit for total PCBs is 160.
**Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 22

Sediment Pesticide/PCB Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION		FEQBLK**		FEQBLK**	
Latitude:		NA		NA	
Longitude:		NA		NA	
Sample ID:		R9850		S0021	
Sample Date:		4/14/93		4/15/93	
Percent Solids Results:		NA		NA	
Compound	Detection Limit				
alpha–BHC	8	0.05	U	0.05	U
gamma–BHC	8	0.05	U	0.05	U
beta–BHC	8	0.05	U	0.05	U
Heptachlor	8	0.05	U	0.05	U
delta–BHC	8	0.05	U	0.05	U
Aldrin	8	0.05	U	0.05	U
Heptachlor epoxide	8	0.05	U	0.05	U
Endosulfan I	8	0.05	U	0.05	U
4,4'–DDE	16	0.1	U	0.1	U
Dieldrin	16	0.013	U	0.013	U
Endrin	16	0.027	U	0.027	U
4,4'–DDD	16	0.1	U	0.1	U
Endosulfan II	16	0.056	U	0.056	U
4,4'– DDT	16	0.05	U	0.05	U
Endosulfan Sulfate	16	0.1	U	0.1	U
Endrin Aldehyde	16	0.1	U	0.1	U
Methoxychlor	80	0.2	U	0.2	U
Endrin ketone	16	0.1	U	0.1	U
Chlordane	80	0.05	U	0.05	U
Toxaphene	160	1	U	1	U
PCB–1221	*	0.5	U	0.5	U
PCB–1232	*	0.5	U	0.5	U
PCB–1016/1242	*	0.5	U	0.5	U
PCB–1248	*	0.5	U	0.5	U
PCB–1254	*	0.5	U	0.5	U
PCB–1260	*	0.5	U	0.5	U

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Detection limit for total PCBs is 160.
**Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non–detected results are approximated.

Table 23

Sediment Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-01A-01		SED-01A-02		SED-01B-01		SED-01B-02		SED-08-01		SED-08-02		SED-02-01		SED-02-02	
Latitude:		42-52-43		42-52-43		42-52-40		42-52-40		42-52-43		42-52-43		42-52-38		42-52-38	
Longitude:		73-08-56		73-08-56		73-08-59		73-08-59		73-08-57		73-08-57		73-09-00		73-09-00	
Sample ID #:		Q5916		S0014		Q5917		S0012		Q5911		S0015		Q5910		R9843	
Sample Date:		9/23/92		4/15/93		9/23/92		4/15/93		9/23/92		4/15/93		9/23/92		4/14/93	
Percent Solids Results:		58%		52%		48%		56%		70%		55%		46%		50%	
Analyte	CRDL Detection Limit																
Aluminum	40	7220		6400		7130		6770		3060		3280		8770		11500	
Antimony	12	3.4	UJ	3.1	UJ	4.2	UJ	3	UJ	2.9	UJ	5.3	U	4.3	UJ	3.4	UJ
Arsenic	2	2.1	J	0.83	J	1.3	J	3.6		3.9		6		2.3		2.5	
Barium	40	71.6		75.9		57.2		68		39	J	98.2	J	108		123	
Beryllium	1	0.65	J	0.73	J	0.72	J	0.72	J	0.39	J	0.56	J	0.81	J	1.4	J
Cadmium	1	0.34	U	0.36	U	0.42	U	0.48	U	0.29	U	0.36	U	0.46		0.82	
Calcium	1000	2120		2490		1600		1340		745		1670		2100		2320	
Chromium	2	6.4		5.6		6.5		6		3.6		3.6	J	7.9		9.9	
Cobalt	10	4.1	J	4.8	J	4	J	5.6	J	4.1	J	9	J	7.3	J	8.2	J
Copper	5	5.1	J	6.6	J	5.8	J	6	J	4.3	J	5.2	J	7.5	J	8.8	J
Iron	20	8210	J	7710		6590	J	10900		27000	J	78900		14200	J	17400	
Lead	1	11		21.5		17.7		20.5	J	5.4		5.1		18.8		21	
Magnesium	1000	897		1270		837	J	1040		585	J	840	J	1280		1570	
Manganese	3	440		226		114		426		133		577	J	714		849	
Mercury	0.04	0.17	U	0.18	U	0.21	U	0.18	U	0.14	U	0.18	U	0.22	U	0.2	U
Nickel	8	3.3	J	4.1	J	4.1	J	6.2	J	1.7	J	2.3	J	12.7	J	14.2	
Potassium	1000	235	UJ	109	U	280	UJ	246	J	251	UJ	109	UJ	484	UJ	312	J
Selenium	1	0.52	UJ	R		0.62	UJ	0.63	J	0.43	UJ	1.1	J	0.65	UJ	0.61	J
Silver	2	0.34	UJ	0.36	U	0.42	UJ	0.36	U	0.38	J	0.36	U	0.43	UJ	0.4	U
Sodium	1000	168	J	253	J	204	J	218	J	170	J	304	J	314	J	271	J
Thallium	2	0.17	U	0.35	J	0.21	U	0.23	J	0.14	U	0.18	UJ	0.22	UJ	0.32	J
Vanadium	10	9.6	J	9.1		9.2	J	9.3		8.2	J	5.9	J	0.13	J	13.2	
Zinc	4	45.7		49		44.9		49.8		21.4	J	35.6		0.77		84.8	
Cyanide	2	0.43	U	0.45	U	0.52	U	0.45	U	0.36	U	0.46	U	0.54	U	0.5	U

NOTES:

Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 23

Sediment Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-09-01		SED-09-02		SED-10-01		SED-10-02		SED-11-01		SED-11-02		SED-11-03		SED-11-03 BLDUP	
Latitude:		42-52-40		42-52-40		42-52-41		42-52-41		42-52-39		42-52-39		42-52-39		42-52-39	
Longitude:		73-09-00		73-09-00		73-08-59		73-08-59		73-09-00		73-09-00		73-09-00		73-09-00	
Sample ID #:		Q5912		R9844		Q5913		S0011		Q5914		R9845		0006-SA		0009-SA	
Sample Date:		9/23/92		4/14/93		9/23/92		4/15/93		9/23/92		4/14/93		11/17/93		11/17/93	
Percent Solids Results:		54%		47%		78%		76%		42%		51%		49%		41%	
Analyte	CRDL Detection Limit																
Aluminum	40	6700		6760		3570		5140		11900		9710		5480		8050	
Antimony	12	8.1	UJ	3.6	UJ	5.6	UJ	2.2	UJ	7.2	UJ	3.3	U	12.2	U	14.5	U
Arsenic	2	2.9		3		1.3		1.8		4.6		3.4		2.6		3.8	
Barium	40	87.6	J	138	J	24.8	J	50.3	J	128	J	116		94	J	147	J
Beryllium	1	0.66	J	0.64	J	0.35	J	0.43	J	0.85	J	0.77	J	0.41	U	0.61	J
Cadmium	1	0.36	U	0.62	J	0.26	U	0.4	U	0.48	U	0.68		1	U	1.6	J
Calcium	1000	2230		2790		1320		2630		4580		2390		2610		3980	
Chromium	2	10.9		13.5	J	4		18.2	J	26.7		8.7		9.8		16.3	
Cobalt	10	8.6	J	9.8	J	4.9	J	5	J	11.5	J	7.6	J	5.8		9.4	
Copper	5	21.3	J	12.8	J	5.3	J	7.3	J	17.9	J	10.9	J	12.2	J	17	J
Iron	20	43300	J	53600		9850	J	14200		34200	J	15300		34800		63900	
Lead	1	39.7		24.3		7.3		14.6		47.7		60.2		70.3		52	
Magnesium	1000	1810		1850		1020		2160		4080		1840		1830		2660	
Manganese	3	597	J	1450	J	154		252	J	1050	J	430		1160	J	1750	J
ercury	0.04	0.18		0.21	U	0.13	U	0.13	U	0.31		0.37	J	0.29		0.45	
Nickel	8	24.5	J	26.7		4.1	J	7		59.8	J	57.6		24.2		32.5	
Potassium	1000	662	UJ	332	J	419	UJ	402	J	1140	J	840	J	760	J	887	J
Selenium	1	0.55	UJ	1.9	J	0.38	UJ	1.5	J	0.71	UJ	1.7	J	1	U	1.2	UJ
Silver	2	0.84	J	0.43	U	0.26	UJ	0.26	U	0.55	J	0.39	U	2	U	2.4	U
Sodium	1000	212	J	359	J	186	J	174	J	409	J	310	J	1010	U	228	J
Thallium	2	0.18	UJ	0.24	J	0.13	U	0.13	J	0.24	J	0.25	J	1	U	1.2	U
Vanadium	10	13.6	J	9.4	J	7.4	J	8.1	J	20.6	J	13.7		10		15.1	
Zinc	4	117	J	130		25.1		76.1		176	J	93.8		105	J	152	J
Cyanide	2	0.45	U	0.54	U	0.47	U	0.33	U	0.6	U	0.49	U	1	U	1.2	U

NOTES:

Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 23

Sediment Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-12-01	SED-12-01 BLDUP#1	SED-12-02	SED-12-03	SED-03-01	SED-03-02	SED-04-01
Latitude:		42-52-38	42-52-38	42-52-38	42-52-38	42-52-37	42-52-37	42-52-35
Longitude:		73-09-01	73-09-01	73-09-01	73-09-01	73-09-02	73-09-02	73-09-08
Sample ID #:		Q5915	Q5918	R9846	0007-SA	Q5877	R9847	Q5878
Sample Date:		9/23/92	9/23/92	4/14/93	11/17/93	9/22/92	4/14/93	9/22/92
Percent Solids Results:		69%	71%	56%	66%	49%	49%	70%
Analyte	CRDL Detection Limit							
Aluminum	40	4980	5280	10900	3370	8400	10200	5080
Antimony	12	4.9 UJ	2.8 UJ	3 UJ	9.1 UJ	4.1 UJ	3.5 UJ	2.9 UJ
Arsenic	2	2.2	1.9	3.1	1.2	1.7 J	1.9 J	1.8
Barium	40	50.1	47.3	119	36.3	100	108	77.4
Beryllium	1	0.54 J	0.48 J	0.69 J	0.46 J	0.76 J	0.81 J	0.53 J
Cadmium	1	0.29 U	0.28 U	0.7	0.76 UJ	0.41 U	0.73	0.29 U
Calcium	1000	1120	1150	1650	846	2810 U	2070	1590
Chromium	2	4.6	5	9.4	4.3	8	9.2	5.4
Cobalt	10	4.8 J	5.2 J	7 J	3.4	6.9 J	7.1 J	5.5 J
Copper	5	5.1 J	5.8 J	6.7 J	4.9	8.1 J	8.4 J	4 J
Iron	20	13900 J	13200 J	11400	7370	17300 J	17500	11200 J
Lead	1	14.9	18.5	15	35	18.9	22.5	11.5
Magnesium	1000	989	957	1480	787	1510	1620	827
Manganese	3	317	234	293	193 J	631	744	1150
lercury	0.04	0.14 U	0.14 U	0.19 J	0.15 U	0.2 U	0.2 U	0.14 U
Nickel	8	16.3 J	16.6 J	7.3	54.5	22.4 J	18.4	23.4 J
Potassium	1000	416 UJ	420 J	257 J	562 J	374 UJ	504 J	313 UJ
Selenium	1	0.43 UJ	0.42 UJ	R	0.76 UJ	0.61 UJ	2.1 J	0.43 UJ
Silver	2	0.29 UJ	0.28 UJ	0.36 U	1.5 U	0.41 UJ	0.41 U	0.29 UJ
Sodium	1000	179 J	203 J	189 J	165 J	271 J	314 J	175 J
Thallium	2	0.14 U	0.14 U	0.27 J	0.76 U	0.2 U	0.2 U	0.14 U
Vanadium	10	8.5 J	8.1 J	13.9	5.8	12.1 J	12.7	8.9 J
Zinc	4	50.3	47.2	55.1	60.4	79.4	79.9	59.8
Cyanide	2	0.36 U	0.35 U	0.44 U	0.76 U	51 U	0.51 U	0.36 U

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 23

Sediment Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-04-02	SED-04-02 BLDUP	SED-05-01	SED-05-02	SED-06-01	SED-06-02	SED-07-01
Latitude:		42-52-35	42-52-35	42-52-33	42-52-33	42-52-33	42-52-33	42-52-34
Longitude:		73-09-08	73-09-08	73-09-15	73-09-15	73-09-13	73-09-13	73-09-13
Sample ID #:		R9669	R9673	Q5782	R9670	Q5784	R9671	Q5879
Sample Date:		4/13/93	4/13/93	9/21/92	4/13/93	9/21/92	4/13/93	9/22/92
Percent Solids Results:		68%	74%	85%	76%	80%	71%	68%
Analyte	CRDL Detection Limit							
Aluminum	40	5480	5130	2380	4540	2610	4030	3670
Antimony	12	2.5 UJ	2.3 UJ	2.9 UJ	2.2 UJ	2.4 UJ	2.4 UJ	2.9 UJ
Arsenic	2	1.2 J	1.5	1.5	1.9	1.2 J	1.6	1.4 J
Barium	40	52.2	48.1	44.2	51.2	24.0 J	39.6	49.6
Beryllium	1	0.59 J	0.39 J	0.33 J	0.52 J	0.34 J	0.43 J	0.41 J
Cadmium	1	0.3 U	0.34 J	0.24 U	0.26 U	0.24 U	0.3 J	0.29 U
Calcium	1000	1370	1250	2880	3630	1980	2380	1120
Chromium	2	6.2	5.2	3.1	5.5	3.4	4.4	4.2
Cobalt	10	3.9 J	3.2 J	7.8	5.6 J	3.5 J	23.3	4.1 J
Copper	5	3.5 J	2.8 J	5.9 J	7 J	4.6 J	9.9 J	4.5 J
Iron	20	7730	6440	7980 J	9980	6520 J	7880	9160 J
Lead	1	9	8.2	7.3	12.6	6.4	18	9.9
Magnesium	1000	844	889	2110	2560	1640	1740	759
Manganese	3	384	452	275	339	191	595	631
Mercury	0.04	0.15 U	0.13 U	0.16	0.2 J	0.14	0.27 J	0.15 U
Nickel	8	12.6	13.4	4.5 J	9	4.4 J	13.2	23.5 J
Potassium	1000	257 J	163 J	458 J	603 J	454 J	512 J	354 UJ
Selenium	1	0.51 J	1.5 J	0.35 UJ	R	0.36 UJ	R	0.44 UJ
Silver	2	0.3 U	0.27 U	0.24 UJ	0.26 U	0.24 UJ	0.28 U	0.29 UJ
Sodium	1000	194 J	141 J	142 J	175 J	138 J	160 J	188 J
Thallium	2	0.15 U	0.13 UJ	0.12 U	0.17 J	0.12 U	0.14 U	0.15 U
Vanadium	10	8	7.6	5.2 J	8	5.6 J	6 J	6.7 J
Zinc	4	39.1	37.1	31.0	55	25.5	61.6	50.9
Cyanide	2	0.37 U	0.34 U	0.29 U	0.33 U	NA	NA	0.37 U

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 23

Sediment Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-07-02		SED-13-01		SED-13-02		SED-14-01		SED-14-02		SED-14-03		SED-15-01	
Latitude:		42-52-34		42-52-36		42-52-36		42-52-37		42-52-37		42-52-37		42-52-36	
Longitude:		73-09-13		73-09-02		73-09-02		73-09-03		73-09-03		73-09-03		73-09-04	
Sample ID #:		R9672		Q5880		S0013		Q5881		R9849		0008-SA		Q5882	
Sample Date:		4/13/93		9/22/92		4/15/93		9/22/92		4/14/93		11/17/93		9/22/92	
Percent Solids Results:		76%		65%		49%		56%		75%		74%		56%	
Analyte	CRDL Detection Limit														
Aluminum	40	4400		4940		6640		7640		4710		2500		5470	
Antimony	12	2.2	UJ	3.1	UJ	3.4	UJ	3.6	UJ	2.3	UJ	7.8	UJ	3.8	UJ
Arsenic	2	2.1		1.1	J	2.1		1.9		1.1	J	0.89		1.4	J
Barium	40	92.1		35.8		76.6		99.2		48.8		30.5		66.6	
Beryllium	1	0.53	J	0.42	J	0.67	J	0.66	J	0.54	J	0.34	J	0.47	J
Cadmium	1	0.42		0.31	U	0.53	U	0.45		0.27	U	0.65	UJ	0.34	U
Calcium	1000	2070		1650		2910		1890		1040		621		1880	
Chromium	2	5		6.6		8.4		7		4.5		5		6	
Cobalt	10	6.2	J	3.6	J	5.9	J	6.7	J	4.1	J	2.6		5	J
Copper	5	4.5	J	2.7	J	4.4	J	6.9	J	4.1	J	3.7		5.8	J
Iron	20	10200		5950	J	12300		14700	J	9210		6700		12100	J
Lead	1	7.2		6.5		14.5		18.4		11.5		8.3		12.9	
Magnesium	1000	1510		1120		1250		1200		846		512		1030	
Manganese	3	1050		363		1170		843		331		117	J	785	
Mercury	0.04	0.13	U	0.15	U	0.2	U	0.18	U	0.31	J	0.13	U	0.17	U
Nickel	8	24.2		2.7	J	5.1	J	16.5	J	9.8		11.3		17	J
Potassium	1000	341	J	295	UJ	122	U	420	UJ	207	J	295	J	356	UJ
Selenium	1	0.4	J	0.46	UJ	3	J	0.54	UJ	1.5	J	0.67	UJ	0.52	UJ
Silver	2	0.26	U	0.31	UJ	0.41	U	0.36	UJ	0.27	U	1.3	U	0.34	UJ
Sodium	1000	138	J	183	J	270	J	209	J	197	J	153	J	241	J
Thallium	2	0.13	U	0.15	U	0.2	U	0.19	J	0.13	U	0.67	UJ	0.17	U
Vanadium	10	6	J	7.8	J	10.2		11.6	J	6	J	4.5		9.6	J
Zinc	4	50.5		24.1		44.5		70.2		39.3		27.4		54.5	
Cyanide	2	0.33	U	0.38	U	0.51	U	0.45	U	0.33	U	0.65	U	0.43	U

NOTES:

Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 23

Sediment Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		SED-15-02		FEQBLK*#1		FEQBLK*#2		EQBLK*#1-2		FEQBLK*#2-2	
Latitude:		42-52-36		NA		NA		NA		NA	
Longitude:		73-09-04		NA		NA		NA		NA	
Sample ID #:		R9848		Q5875		Q5905		R9850		S0021	
Sample Date:		4/14/93		9/22/92		9/23/92		4/14/93		4/15/93	
Percent Solids Results:		64%		NA		NA		NA		NA	
Analyte	CRDL Detection Limit										
Aluminum	40	4910		89.3	J	55.5	U	39.7	U	49.9	U
Antimony	12	2.7	UJ	20.0	U	22	U	33.4	U	33.2	U
Arsenic	2	1.4	J	2.0	U	2	U	2	U	2	U
Barium	40	54.3		20.4	J	2.6	J	2	U	3	U
Beryllium	1	0.58	J	0.10	U	0.1	U	5	U	5	U
Cadmium	1	0.59		2.0	U	2	U	2	U	2	U
Calcium	1000	1210		32100		525	J	859	J	828	J
Chromium	2	5.2		4.0	U	4	U	2	U	2	U
Cobalt	10	4.3	J	4.0	U	4	U	5	U	5	U
Copper	5	6	J	3.8	U	3.1	U	3	U	3.3	J
Iron	20	10200		83.9	U	64.7	U	20.4	J	121	
Lead	1	12		1.0	U	1	U	1	U	1	U
Magnesium	1000	885		7570		46.1	J	59.7	J	63.4	J
Manganese	3	330		4.3	J	1.1	J	1	U	1.6	U
Mercury	0.04	0.16	U	0.20	U	0.2	U	0.2	U	0.2	U
Nickel	8	13.9		6.0	U	6	U	8	U	8	U
Potassium	1000	193	J	664	J	450	U	600	U	600	U
Selenium	1	R		3.0	U	3	U	3.4	J	3	U
Silver	2	0.31	U	2.0	U	2	U	2	U	2	U
Sodium	1000	236	J	17300		1520	J	1530	J	1440	J
Thallium	2	0.16	U	1.0	U	1	U	1	U	1	U
Vanadium	10	7	J	5.1	U	4	U	5	U	5	U
Zinc	4	46.9		22.6	U	7.8	U	10.5	U	13.1	U
Cyanide	2	NA		5.0	U	5	U	5	U	5	U

NOTES:

Values reported in mg/kg dry weight (ppm) unless noted otherwise.
* Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 23A

Sediment Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	SED-11-03	SED-11-03 BLDUP	SED-12-03	SED-14-03
Latitude:	42-52-39	42-52-39	42-52-38	42-52-37
Longitude:	73-09-00	73-09-00	73-09-01	73-09-03
Sample ID #:	0006-SA	0009-SA	0007-SA	0008-SA
Sample Date:	11/17/93	11/17/93	11/17/93	11/17/93
Percent Solids Results:	49%	41%	66%	74%
Detection Limit				
TOC	36000	26000	16000	7300

NOTES: Values reported in mg/kg dry weight (ppm) unless noted otherwise.

Table 24

Leachate Seeps Volatile Organics – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		LS-1	LS-2	LS-3	LS-3 BLDUP	FEQBLK	QC TR BK	QC TR BK	QC TR BK
Latitude:		42-52-42	42-52-40	42-52-38	42-52-38	NA	NA	NA	NA
Logitude:		73-08-58	73-09-00	73-09-01	73-09-01	NA	NA	NA	NA
Sample ID #:		R4113	S0883	S0884	S1007	S0885	R4116	S0886	S1008
Sample Date:		1/28/93	5/3/93	5/3/93	5/3/93	5/3/93	1/28/93	5/3/93	5/3/93
Compound	Detection Limit								
Chloromethane	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Bromomethane	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Vinyl chloride	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Chloroethane	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Methylene chloride	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Acetone	10	32 *	21	2000 U	2000 U	12	10 U	10 U	10 U
Carbon disulfide	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5	32 *	10	1800	1800	5 U	5 U	5 U	5 U
Chloroform	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
2-Butanone	10	R	R	R	R	R	R	R	R
1,1,1-Trichloroethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Trichloroethene	5	570	5 U	26000	26000	5 U	5 U	5 U	5 U
Dibromochloromethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Benzene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Bromoform	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
2-Hexanone	10	50 U	10 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	25 U	5 U	9200	9400	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Toluene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Styrene	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U
Xylene (Total)	5	25 U	5 U	1000 U	1000 U	5 U	5 U	5 U	5 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.
* – Undiluted sample result.

Table 24A

Leachate Seeps Total Organic Carbons
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		LS-2		LS-3		LS-3 BLDUP	FEQBLK
Latitude:		42-52-40		42-52-38		42-52-38	NA
Logitude:		73-09-00		73-09-01		73-09-01	NA
Sample ID #:		S0883		S0884		S1007	S0885
Sample Date:		5/3/93		5/3/93		5/3/93	5/3/93
	Detection Limit						
TOC (mg/l)	53	170	J	200	J	92	3

NOTES: NA – Not Applicable.

Table 25

Leachate Seeps Semi-volatile Organics - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		LS-1	LS-2	LS-3	LS-3 BLDUP	FEQBLK
Latitude:		42-52-42	42-52-40	42-52-38	42-52-38	NA
Longitude:		73-08-58	73-09-00	73-09-01	73-09-01	NA
Sample ID #:		R4114	S0883	S0884	S1007	S0885
Sample Date:		1/29/93	5/3/93	5/3/93	5/5/93	5/3/93
Compound	Detection Limit					
Phenol	10	11 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl)ether	10	11 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	11 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	11 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	11 U	10 U	15	17	10 U
Benzyl alcohol	10	11 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	11 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	11 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl)ether	10	11 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	11 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	11 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	11 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	11 U	10 U	10 U	10 U	10 U
Isophorone	10	11 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	11 U	10 U	10 U	10 U	10 U
,4-Dimethylphenol	10	11 U	10 U	10 U	10 U	10 U
enzoic Acid	50	56 U	50 U	52 UJ	50 UJ	52 U
Bis(2-chloroethoxyl)methane	10	11 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	11 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	11 U	10 U	10 U	10 U	10 U
Napthalene	10	11 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	11 U	10 U	10 U	10 U	10 U
Hexzchlorobutadiene	9	11 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10	11 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	11 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	9	11 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	11 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50	56 U	50 U	52 U	50 U	52 U
2-Chloronaphthalene	10	11 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50	56 U	50 U	52 U	50 U	52 U
Dimethylphthalate	10	11 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	11 U	10 U	10 U	10 U	10 U

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximate.

Table 25

Leachate Seeps Semi-volatile Organics - Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		LS-1	LS-2	LS-3	LS-3 BLDUP	FEQBLK
Latitude:		42-52-42	42-52-40	42-52-38	42-52-38	NA
Longitude:		73-08-58	73-09-00	73-09-01	73-09-01	NA
Sample ID #:		R4114	S0883	S0884	S1007	S0885
Sample Date:		1/29/93	5/3/93	5/3/93	5/5/93	5/3/93
2,6-Dinitrotoluene	10	11 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50	56 U	50 U	52 U	50 U	52 U
Acenaphthene	10	11 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50	56 U	50 U	52 U	50 U	52 U
4-Nitrophenol	50	56 U	R	52 U	50 U	52 U
Dibenzofuran	10	11 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	11 U	10 UJ	10 U	10 U	10 U
Diethylphthalate	10	11 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	11 U	10 U	10 U	10 U	10 U
Flourene	10	11 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50	56 U	50 U	52 U	50 U	52 U
4,6-Dinitro-2-methylphenol	50	56 U	50 U	52 U	50 U	52 U
Nitrosodiphenylamine	10	11 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	11 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	11 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	56 U	50 U	52 U	50 U	52 U
Phenanthrene	10	11 U	10 U	10 U	10 U	10 U
Anthracene	10	11 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	11 U	10 U	10 U	10 U	10 U
Flouranthene	10	11 U	10 U	10 U	10 U	10 U
Pyrene	10	11 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20	22 U	20 U	21 U	20 U	21 U
Benzo(a)anthracene	10	11 U	10 U	10 U	10 U	10 U
Chrysene	10	11 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	10	11 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	11 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	11 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	11 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	11 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	11 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	11 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	11 U	10 U	10 U	10 U	10 U
Total TICs		NA	58 J	145 J	566 J	641 J

NOTES: Values reported in µg/l (ppb) unless noted otherwise.
J - Indicates an estimated value.
NA - Not Applicable.
R - Unusable.
TICs - Tentatively Identified Compounds.
U - Compound was analyzed and not detected.
UJ - Non-detected results are approximate.

Table 26

Leachate Seeps PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		LS-1-02	LS-2	LS-3	LS-3 BLDUP	FEQBLK
Latitude:		42-52-42	42-52-40	42-52-38	42-52-38	NA
Longitude:		73-08-58	73-09-00	73-09-01	73-09-01	NA
Sample ID #:		S2492	S0883	S0884	S1007	S0885
Sample Date:		6/4/93	5/3/93	5/3/93	5/3/93	5/3/93
Compound	Detection Limit					
alpha-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	0.1	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dieldrin	0.013	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
Endrin	0.027	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U
4,4'-DDD	0.1	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.056	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U
4,4'-DDT	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	0.10	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	0.1	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Endrin ketone	0.10	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chlorodane	0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
PCB-1221	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1232	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1016/1242	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1248	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1254	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-1260	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
* Detection Limit for total PCBs is 0.5.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximate.

Table 27

Leachate Seeps Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		LS-1		LS-2		LS-3		LS-3 BLDUP		FEQBLK	
Latitude:		42-52-42		42-52-40		42-52-38		42-52-38		NA	
Longitude:		73-08-58		73-09-00		73-09-01		73-09-01		NA	
Sample ID #:		R4114		S0883		S0884		S1007		S0885	
Sample Date:		1/29/93		5/3/93		5/3/93		5/5/93		5/3/93	
Compound	CRDL Detection Limit										
Aluminum	200	157	J	32100		75000		31200		16.8	J
Antimony	60	21	U	39.7	J	17.0	UJ	17.0	UJ	17.0	J
Arsenic	10	R		R		R		R		4.0	U
Barium	200	32.3	J	880	J	430		183	J	3.0	U
Beryllium	5	0.10	U	3.2	U	3.2	U	2.6	J	0.10	U
Cadmium	3	2.0	U	2.3	J	2.0	U	2.0	U	2.0	U
Calcium	5000	34100		79300		5360		4070	J	956	J
Chromium	10	2.0	U	43.1	J	56.3		14.0		2.0	U
Cobalt	50	5.0	U	47.0	J	29.0	J	11.6	J	5.0	U
Copper	5	3.0	UJ	206		122		45.4		3.2	J
Iron	100	687		260000		31900		8890		32.1	U
Lead	3	1.7	J	998	J	225	J	55.8		1.0	J
Magnesium	5000	10300		30100		8130		2630	J	39.0	U
Manganese	15	25.2		10200	J	937		602		1.0	U
Mercury	0.2	0.20	U	2.7	J	0.86	J	0.33	J	0.20	U
Nickel	40	8.0	U	235	J	390	J	248	J	8.0	U
Potassium	5000	2980	U	19300	J	32500		26800		600	U
Selenium	5	3.0	UJ	3.0	UJ	R		15.0	UJ	3.0	U
Silver	10	3.5	U	4.1	J	2.0	U	2.0	U	2.0	U
Sodium	5000	4080	J	19700	J	40400		40200		1440	J
Thallium	10	1.0	UJ	1.1	J	2.4	J	1.0	U	1.0	U
Vanadium	50	5.6	J	46.8	J	50.5		13.6	J	5.0	U
Zinc	20	1270	J	1810	J	236	J	75.1	J	13.2	U
Cyanide	5	5.0	U	8.0		5	U	5.0	U	5.0	U
BOD5 (mg/L)	1	6	UJ	60	UJ	60	UJ	60	UJ	6	UJ
Hardness (mg/L)	1	130		320	J	47	J	21		10	U

NOTES:
Values reported in µg/l (ppb) unless noted otherwise.
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 28
Air Samples - Volatile Compound Results - USEPA Modified Method TO-2
Burges Brothers Superfund Site
Remedial Investigation

Sampled October 14, 1992

Compounds	CAS Numbe	OSHA PEL (ug/m^3)	ACGIH TLV (ug/m^3)	Vermont Hazard Limiting Value Annual Average (ug/m^3)	Blank (ug)	AS-01-V (ug/m^3) (Exclusion) (Zone)	AS-02-V (ug/m^3) (Upwind)	AS-03-V (ug/m^3) (Landfill) (Downwind)	AS-04-V (ug/m^3) (Upwind)	AS-05-V (ug/m^3) (Downwind)	AS-06-V (ug/m^3) (Downwind)	AS-07-V (ug/m^3) (AS-03-V) (Duplicate) (Landfill)
1,1,1-Trichloroethane	71-55-6	1900000	1910000	190000	0.02	1.8U	2U	1.4U	2U	1.4U	3.4U	2.2U
1,1,2,2-Tetrachloroethane	79-34-5	7000(skin)	6900(skin)	0.017	0.05U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U
1,1,2-Trichloroethane	79-00-5	45000(skin)	55000(skin)	0.061	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.69U
1,1-Dichloroethane	75-34-3	400000	405000	19300	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,1-Dichloroethene	75-35-4	4000	20000	—	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dichloroethane	107-06-2	4000	40000	0.038	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dichloroethene	540-59-0	790000	793000	79000	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dichloropropane	78-87-5	350000	347000	0.01	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
2-Butanone	78-93-3	590000	590000	5900	0.025U	2.1	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
2-Hexanone	591-78-6	20000	20000(skin)	—	0.025U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	0.5U
4-Methyl-2-Pentanone	108-10-1	205000	205000	—	0.025U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
Acetone	67-64-1	1800000	1780000	178000	0.12U	6.3U	6.1U	6.3U	6.1U	6.1U	27U	65U
Benzene	71-43-2	3000	32000	0.12	0.011	0.99U	0.81U	1.3U	1.1U	0.56U	1.8U	1.8U
Bromodichloromethane	75-57-4	—	—	—	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Bromoform	75-25-2	5000(skin)	5200(skin)	0.01	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Bromomethane	74-83-9	20000(skin)	19000(skin)	0.1	0.025U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U
Carbon Disulfide	75-15-0	12000(skin)	31000(skin)	714	0.01U	4.5	0.5U	4.2	0.5U	0.5U	10	0.5U
Carbon Tetrachloride	56-23-5	12600	31000(skin)	0.067	0.01U	0.52	0.65	0.63	0.85	0.5U	0.85	1.1
Chlorobenzene	108-90-7	350000	46000	833	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Chloroform	67-66-3	9780	49000	0.043	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,3-Dichloropropene	10061-01-5	—	—	—	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Dibromochloromethane	124-48-1	—	—	—	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	100-41-4	435000	434000	43500	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.8	1.4U
m,p-Xylene	1330-20-7	435000	434000	86.3	0.01U	0.57	1.1	1.1	0.7	1.1	2.6	0.5
Methylene Chloride	75-09-2	62500	174000	0.25	0.055B	9.5U	6.1U	2.5U	1U	3.7U	18U	11U
o-Xylene	1330-20-7	435000	434000	86.3	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.95	0.5U
Styrene	100-42-5	215000	213000(skin)	512	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Tetrachloroethene	127-18-4	170000	339000	0.41	0.01U	32	0.5U	0.5U	0.5U	0.5U	0.75	1.3
Toluene	108-88-3	375000	377000	8930	0.01U	1.4	4.5	2.1	1.8	4	6	3.2
trans-1,3-Dichloropropene	10061-02-6	—	—	—	0.01U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Trichloroethene	79-01-6	270000	269000	0.42	0.01U	37	0.5U	0.5U	0.5U	0.5U	0.9	0.85
Trichlorofluoromethane	75-69-4	5600000(ceiling)	5620000(ceiling)	—	0.6	40U	30U	20U	30U	40U	40U	20U
Vinyl Acetate	108-05-4	30000	35000	—	0.025U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Vinyl Chloride	75-01-4	2600	13000	0.2	0.025U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U

Table 28
Air Samples - Volatile Compound Results - USEPA Modified Method TO-2
Burges Brothers Superfund Site
Remedial Investigation

Sampled October 14, 1992

Compounds	CAS Numbe	OSHA PEL (ug/m^3)	ACGIH TLV (ug/m^3)	Vermont Hazard Limiting Value Annual Average (ug/m^3)	Blank (ug)	AS-01-V (ug/m^3) (Exclusion) (Zone)	AS-02-V (ug/m^3) (Upwind)	AS-03-V (ug/m^3) (Landfill) (Downwind)	AS-04-V (ug/m^3) (Upwind)	AS-05-V (ug/m^3) (Downwind)	AS-06-V (ug/m^3) (Downwind)	AS-07-V (ug/m^3) (AS-03-V) (Duplicate) (Landfill)
TIC's												
2-ethyl-Hexanal	123-05-7	—	—	—	ND	ND	ND	ND	ND	ND	5	ND
Aliphatic Hydrocarbon	—	—	—	—	0.04	ND	3U	ND	2U	2U	4U	4U
Aliphatic Hydrocarbon	—	—	—	—	ND	ND	ND	ND	ND	ND	3	ND
Aliphatic Hydrocarbon	—	—	—	—	ND	ND	ND	ND	ND	2	4	ND
Aliphatic Hydrocarbon	—	—	—	—	ND	ND	3	ND	4	2	2	ND
Limonene	138-86-3	—	—	—	ND	ND	ND	ND	ND	ND	3	ND
Nonanal	124196	—	—	—	ND	ND	4	1	10	4	ND	ND
Unknown Hyrdocarbon	—	—	—	—	ND	ND	ND	3B	2B	ND	ND	3
Unknown Hyrdocarbon	—	—	—	—	ND	ND	ND	3	1	10B	ND	2
Unknown Silane	—	—	—	—	0.3	10U	4U	20U	10U	5U	5U	20U

Table 29
Air Samples - Semi-Volatile Compound Results - USEPA Modified Method TO-13
Burges Brothers Superfund Site
Remedial Investigation

Sampled October 14, 1992

Compounds	CAS Numbe	OSHA PEL (ug/m^3)	ACGIH TLV (ug/m^3)	Vermont Hazard Limiting Value Annual Average (ug/m^3)	Blank (ug)	AS-01-V (ug/m^3) (Exclusion) (Zone)	AS-02-V (ug/m^3) (Upwind)	AS-03-V (ug/m^3) (Landfill) (Downwind)	AS-04-V (ug/m^3) (Upwind)	AS-05-V (ug/m^3) (Downwind)	AS-06-V (ug/m^3) (Downwind)	AS-07-V (ug/m^3) (AS-03-V) (Duplicate) (Landfill)
1,2,4-Trichlorobenzene	120-82-1	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
1,2-Dichlorobenzene	95-48-1	300000(ceiling)	150000	3000	10U	520U	560U	520U	510U	460U	500U	530U
1,3-Dichlorobenzene	541-73-1	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
1,4-Dichlorobenzene	106-46-7	450000	451000	—	10U	520U	560U	520U	510U	460U	500U	530U
2,2'-oxybis(1-Chloropropane)	39638-32-9	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2,4,5-Trichlorophenol	95-95-4	—	—	—	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
2,4,6-Trichlorophenol	88-06-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2,4-Dichlorophenol	120-83-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2,4-Dimethylphenol	105-67-9	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2,4-Dinitrophenol	51-28-5	—	—	—	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
2,4-Dinitrotoluene	121-14-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2,6-Dinitrotoluene	606-20-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2-Chloronaphthalene	91-58-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2-Chlorophenol	95-57-8	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2-Methylnaphthalene	91-57-8	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2-Methylphenol	95-48-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
2-Nitroaniline	88-74-4	—	—	—	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
2-Nitrophenol	88-75-1	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
3,3'-Dichlorobenzidine	91-94-1	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
3-Nitroaniline	99-09-2	—	—	—	50U	2600U	2600U	2600U	2600U	2300U	2500U	2600U
4,6-Dinitro-2-methylphenol	534-52-1	200(skin)	200(skin)	—	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
4-Bromophenyl-phenylether	101-55-3	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
4-Chloroaniline	106-47-8	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
4-Chlorophenyl-phenylether	7005-72-3	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
4-Chloro-3-methylphenol	59-50-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
4-Methylphenol	95-48-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
4-Nitroanline	100-01-6	3000(skin)	3000(skin)	—	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
4-Nitrophenol	100-02-7	—	—	—	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
Acenaphthene	83-32-9	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Acenaphthylene	208-96-8	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Anthrecene	120-12-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Benzo(a)anthracene	56-55-3	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Benzo(a)pyrene	50-32-8	—	—	0.0003	10U	520U	560U	520U	510U	460U	500U	530U
Benzo(b)fluoranthene	205-99-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Benzo(g,h,i)perylene	191-24-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Benzo(k)fluoranthene	207-08-9	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
bis(2-Chloroethoxy)methane	111-91-1	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U

Table 29
Air Samples - Semi-Volatile Compound Results - USEPA Modified Method TO-13
Burges Brothers Superfund Site
Remedial Investigation

Sampled October 14, 1992

Compounds	CAS Numbe	OSHA PEL (ug/m^3)	ACGIH TLV (ug/m^3)	Vermont Hazard Limiting Value Annual Average (ug/m^3)	Blank (ug)	AS-01-V (ug/m^3) (Exclusion) (Zone)	AS-02-V (ug/m^3) (Upwind)	AS-03-V (ug/m^3) (Landfill) (Downwind)	AS-04-V (ug/m^3) (Upwind)	AS-05-V (ug/m^3) (Downwind)	AS-06-V (ug/m^3) (Downwind)	AS-07-V (ug/m^3) (AS-03-V) (Duplicate) (Landfill)
bis(2-Chloroethyl)ether	111-44-4	30000(skin)	29000(skin)	0.0031	10U	520U	560U	520U	510U	460U	500U	530U
Bis(2-ethylhexyl)phthalate	117-81-7	5000	5000	—	10U	520U	560U	520U	510U	460U	500U	530U
Butylbenzylphthalate	85-68-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Carbazol	86-74-8	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Chrysene	218-01-9	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Dibenzofuran	132-64-9	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Dibenz(a,h)anthracene	53-70-3	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Diethylphthalate	84-66-2	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Dimethylphthalate	131-11-3	5000	5000	120	10U	520U	560U	520U	510U	460U	500U	530U
Di-n-butylphthalate	84-74-2	5000	5000	500	73B	3500U	10000U	5100U	7700U	7900U	2900U	7400U
Di-n-octylphthalate	117-84-0	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Fluoranthene	206-44-0	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Fluorene	86-73-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Hexachlorobenzene	118-74-1	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Hexachlorobutadiene	87-68-3	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Hexachlorocyclopentadiene	77-47-4	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Hexachloroethane	67-72-1	10000(skin)	9700(skin)	0.25	10U	520U	560U	520U	510U	460U	500U	530U
Indeno(1,2,3-cd)pyrene	193-39-5	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Isophorone	78-59-1	23000	28000(skin)	—	10U	520U	560U	520U	510U	460U	500U	530U
Naphthalene	91-29-3	—	—	120	10U	520U	560U	520U	510U	460U	500U	530U
Nitrobenzene	98-95-3	5000(skin)	5000(skin)	119	10U	520U	560U	520U	510U	460U	500U	530U
N-Nitrosodiphenylamine	86-30-6	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
N-Nitroso-di-n-propylamine	621-64-7	—	—	—	10U	520U	560U	520U	510U	460U	500U	530U
Pentachlorophenol	87-86-5	500(skin)	500(skin)	1.19	50U	2600U	2800U	2600U	2600U	2300U	2500U	2600U
Phenanthrene	85-01-8	—	—	1.3	10U	520U	560U	520U	510U	460U	500U	530U
Phenol	108-95-2	19000(skin)	19000(skin)	1900	10U	520U	560U	520U	510U	460U	500U	530U
Pyrene	129-00-0	—	—	3.4	10U	520U	560U	520U	510U	460U	500U	530U
TIC's												
Acetic acid ester	—	—	—	—	50J	ND	ND	ND	870U	ND	500U	600U
Phthalate	—	—	—	—	13J	ND	ND	ND	ND	ND	ND	ND

Table 30

Test Pit Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:		TP-8-05	TP-9-05	TP-9-05	TP-10-05	TP-10-05 BLDUP-05	TP-10-05	TP-11-05	TP-11-05
Latitude:		42-52-42	42-52-41	42-52-41	42-52-41	42-52-41	42-52-41	42-52-40	42-52-40
Longitude:		73-09-00	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01
Sample ID #:		T7162	T7561	T7562	T7563	T7565	T7564	T7161	T7160
Depth of Sample:		10-12'	6-8'	10-12'	2-4'	2-4'	8-10'	10-12'	17-19'
Sample Date:		5/18/94	5/25/94	5/25/94	5/25/94	5/25/94	5/25/94	5/17/94	5/17/94
Percent Solids Results:		85.0%	86.8%	89.3%	90.8%	89.4%	89.9%	56.0%	85.0%
Compound	Detection Limit								
Chloromethane	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Bromomethane	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Vinyl chloride	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Chloroethane	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Methylene chloride	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Acetone	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Carbon disulfide	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
1,1-Dichloroethene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
1,1-Dichloroethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
1,2-Dichloroethene (total)	5	6 U	11 U	6 U	27 U	700 U	6 U	10000	6 U
Chloroform	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
1,2-Dichloroethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
2-Butanone	10	12 U	R	11 U	55 U	1400 U	11 U	8900 U	12 U
1,1,1-Trichloroethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Carbon tetrachloride	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Vinyl acetate	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Bromodichloromethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
1,2-Dichloropropane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
cis-1,3-Dichloropropene	5	6 U	11 U	6 U	44	700 U	6 U	4500 U	6 U
Trichloroethene	5	14	31	8	27 U	700 U	6 U	36000	10
Dibromochloromethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
1,1,2-Trichloroethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Benzene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
trans-1,3-Dichloropropene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Bromoform	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
4-Methyl-2-pentanone	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
2-Hexanone	10	12 U	23 U	11 U	55 U	1400 U	11 U	8900 U	12 U
Tetrachloroethene	5	15	200	44	690 J	2000 J	13	72000	40
1,1,2,2-Tetrachloroethane	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Toluene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Chlorobenzene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Ethylbenzene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Styrene	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Xylenes (total)	5	6 U	11 U	6 U	27 U	700 U	6 U	4500 U	6 U
Total TICs									

NOTES:
Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
**Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Hudson Environmental Services.

Table 30

Test Pit Volatile Organic Analyses – Method 8240
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION / LOCATION:	TP-12-05	TP-12-05	TP-13-05	TP-13-05	TP-14-05	TP-19-05	TP-19-05	TP-19
Latitude:	42-52-40	42-52-40	42-52-43	42-52-43	42-52-42	42-52-42	42-52-42	DRUM-05
Longitude:	73-09-01	73-09-01	73-08-59	73-08-59	73-08-59	73-09-01	73-09-01	NA
Sample ID #:	T7165	T7159	T7164	T7166	T7163	T7596	T7597	T7566
Depth of Sample:	10-12'	14-16'	0-2'	2-4'	12-14'	14-16'	20-22'	NA
Sample Date:	5/17/94	5/17/94	5/16/94	5/16/94	5/17/94	5/25/94	5/25/94	5/26/94
Percent Solids Results:	88.0%	93.0%	85.0%	85.0%	85.0%	77.7%	78.4%	NA

Compound	Detection Limit																
Chloromethane	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	250	U
Bromomethane	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	250	U
Vinyl chloride	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	350	
Chloroethane	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	250	U
Methylene chloride	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Acetone	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	250	U
Carbon disulfide	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
1,1-Dichloroethene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
1,1-Dichloroethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
1,2-Dichloroethene (total)	5	6	U	5	U	9		6	U	6	U	800	U	800	U	1125	
Chloroform	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
1,2-Dichloroethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
2-Butanone	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	250	U
1,1,1-Trichloroethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Carbon tetrachloride	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Vinyl acetate	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	125	U
Bromodichloromethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
.,2-Dichloropropane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
cis-1,3-Dichloropropene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Trichloroethene	5	6	U	5	U	30		25		6	U	2100		9100		125	U
Dibromochloromethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
1,1,2-Trichloroethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Benzene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
trans-1,3-Dichloropropene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Bromoform	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
4-Methyl-2-pentanone	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	2350	
2-Hexanone	10	11	U	11	U	12	U	12	U	12	U	1600	U	1600	U	250	U
Tetrachloroethene	5	11		11		10		11		6	U	800	U	800	U	125	U
1,1,2,2-Tetrachloroethane	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Toluene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	175	
Chlorobenzene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Ethylbenzene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Styrene	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	125	U
Xylenes (total)	5	6	U	5	U	6	U	6	U	6	U	800	U	800	U	150	
Total TICs																	

NOTES:

Values reported in µg/kg dry weight (ppb) unless noted otherwise.
*Values reported in µg/l (ppb).
**Values reported in mg/kg dry weight (ppm).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.
[1] Subcontracted to Hudson Environmental Services.
TP-19 DRUM-05 was a water sample taken from the drum.

Table 31

Test Pit Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	TP-09-05	TP-10-05	TP-10-05 BLDUP-05	TP-11-05	TP-12-05	TP-19-05	TP-19-05	TP-EQ-BLK-05
Latitude	42-52-41	42-52-41	42-52-41	42-52-40	42-52-40	42-52-42	42-52-42	NA
Longitude:	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	NA
Sample ID #:	T7554	T7556	T7558	T7147	T7146	T7594	T7595DL	T7158
Depth of Sample:	6-8'	2-4'	2-4'	17-19'	14-16'	14-16'	20-22'	NA
Sample Date:	5/25/94	5/25/94	5/25/94	5/17/94	5/17/94	5/25/94	5/25/94	5/18/94
Percent Solids Results:	85.9%	89.4%	89.7%	84.9%	92.8%	77.3%	79.4%	NA

Compound	Detection Limit																	
Phenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
bis(2-Chloroethyl)ether	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2-Chlorophenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
1,3-Dichlorobenzene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
1,4-Dichlorobenzene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Benzyl alcohol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
1,2-Dichlorobenzene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2-Methylphenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
bis(2-Chloroisopropyl)ether	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
4-Methylphenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
N-Nitroso-di-n-propylamine	330	390	UJ	370	U	370	U	390	U	360	UJ	430	U	4200	U	9.4	U
Hexachloroethane	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Nitrobenzene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
ophorone	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
-Nitrophenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2,4-Dimethylphenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Benzoic acid	1600	1900	U	1800	U	1800	U	1900	U	1800	U	630	J	21000	U	47	U
bis(2-Chloroethoxy)methane	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2,4-Dichlorophenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
1,2,4-Trichlorobenzene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Naphthalene	330	390	U	370	U	370	U	390	U	360	U	430	U	3800	J	9.4	U
4-Chloroaniline	330	390	U	370	U	370	U	390	U	360	U	540		4200	U	9.4	U
Hexachlorobutadiene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
4-Chloro-3-methylphenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2-Methylnaphthalene	330	390	U	370	U	370	U	390	U	360	U	420	J	5400		9.4	U
Hexachlorocyclopentadiene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2,4,6-Trichlorophenol	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2,4,5-Trichlorophenol	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	47	U
2-Chloronaphthalene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2-Nitroaniline	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	47	U
Dimethylphthalate	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Acenaphthylene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was anlayzed and not detected.
UJ – Non-detected results are approximated.

Table 31

Test Pit Semi-volatile Organic Analyses – Method 8270
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	TP-09-05	TP-10-05	TP-10-05 BLDUP-05	TP-11-05	TP-12-05	TP-19-05	TP-19-05	TP-EQ-BLK-05
Latitude	42-52-41	42-52-41	42-52-41	42-52-40	42-52-40	42-52-42	42-52-42	NA
Longitude:	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	73-09-01	NA
Sample ID #:	T7554	T7556	T7558	T7147	T7146	T7594	T7595DL	T7158
Depth of Sample:	6-8'	2-4'	2-4'	17-19'	14-16'	14-16'	20-22'	NA
Sample Date:	5/25/94	5/25/94	5/25/94	5/17/94	5/17/94	5/25/94	5/25/94	5/18/94
Percent Solids Results:	85.9%	89.4%	89.7%	84.9%	92.8%	77.3%	79.4%	NA

Compound	Detection Limit																	
2,6-Dinitrotoluene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	47	U
3-Nitroaniline	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	9.4	U
Acenaphthene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	47	U
2,4-Dinitrophenol	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	47	U
4-Nitrophenol	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	9.4	U
Dibenzofuran	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
2,4-Dinitrotoluene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Diethylphthalate	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
4-Chlorophenyl-phenylether	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Fluorene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
4-Nitroaniline	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	47	U
4,6-Dinitro-2-methylphenol	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	47	U
N-Nitrosodiphenylamine	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
-Bromophenyl-phenylether	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
lexachlorobenzene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Pentachlorophenol	1600	1900	U	1800	U	1800	U	1900	U	1800	U	2100	U	21000	U	47	U
Phenanthrene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Anthracene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Di-n-butylphthalate	330	390	U	370	U	370	U	390	U	360	U	430	U	550	J	9.4	U
Fluoranthene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Pyrene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Butylbenzylphthalate	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
3,3'-Dichlorobenzidine	660	770	U	740	U	710	U	750	U	690	U	860	U	690	U	9	U
Benzo(a)anthracene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Chrysene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
bis(2-Ethylhexyl)phthalate	330	390	U	370	U	370	U	390	U	360	U	550		3400	J	9.4	U
Di-n-octylphthalate	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Benzo(b)fluoranthene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Benzo(k)fluoranthene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Benzo(a)pyrene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Indeno(1,2,3-cd)pyrene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Dibenz(a,h)anthracene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Benzo(g,h,i)perylene	330	390	U	370	U	370	U	390	U	360	U	430	U	4200	U	9.4	U
Total TICs		NA		NA		NA		NA		NA		NA		NA		NA	

NOTES:
Values reported in µg/kg (ppb) dry weight unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
TICs – Tentatively Identified Compounds.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 32

Test Pit PCB/Pesticide Analyses – Method 8080
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:	TP-11-05	TP-12-05	TP-EQ-FL-BK-05
Latitude:	42-52-40	42-52-40	NA
Longitude:	73-09-01	73-09-01	NA
Sample ID #:	T7147	T7146	T7158
Depth of Sample:	17-19'	4-16'	NA
Sample Date:	5/17/94	5/17/94	5/17/94
Percent Solids Results:	84.9%	92.8%	NA

Compound	Detection Limit					
alpha-BHC	8	9.4	U	8.6	U	0.05 U
gamma-BHC	8	9.4	U	8.6	U	0.05 U
beta-BHC	8	9.4	U	8.6	U	0.05 U
Heptachlor	8	9.4	U	8.6	U	0.05 U
delta-BHC	8	9.4	U	8.6	U	0.05 U
Aldrin	8	9.4	U	8.6	U	0.05 U
Heptachlor epoxide	8	9.4	U	8.6	U	0.05 U
Endosulfan I	8	19	U	17	U	0.1 U
4,4'-DDE	16	19	U	17	U	0.1 U
Dieldrin	16	19	U	17	U	0.013 U
Endrin	16	19	U	17	U	0.027 U
4,4'-DDD	16	19	U	17	U	0.1 U
Endosulfan II	16	19	U	17	U	0.056 U
4,4'-DDT	16	19	U	17	U	0.05 U
Endosulfan sulfate	16	19	U	17	U	0.1 U
Endrin aldehyde	16	38	U	34	UJ	0.2 U
Methoxychlor	80	94	U	86	U	0.2 U
Endrin ketone	16	9.4	U	8.6	U	0.05 U
Chlordane	80	94	U	86	U	0.05 U
Toxaphene	160	190	U	170	U	1 U
PCB-1221	*	94	U	86	U	0.5 U
PCB-1232	*	94	U	86	U	0.5 U
PCB-1016/1242	*	94	U	86	U	0.5 U
PCB-1248	*	94	U	86	U	0.5 U
PCB-1254	*	190	U	170	U	1 U
PCB-1260	*	190	U	170	U	1 U

NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 33

Test Pit Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		TP7-05		TP7-05		TP8-05		TP8-05		TP9-05		TP9-05		TP10-05	
Latitude:		42-52-42		42-52-42		42-52-42		42-52-42		42-52-41		42-52-41		42-52-41	
Longitude:		73-08-59		73-08-59		73-09-00		73-09-00		73-09-01		73-09-01		73-09-01	
Sample ID #:		T7150		T7151		T7152		T7153		T7554		T7555		T7556	
Depth of Sample:		6-8'		10-12'		4-6'		10-12'		6-8'		10-12		2-4'	
Sample Date:		5/17/94		5/17/94		5/17/94		5/25/94		5/25/94		5/25/94		5/25/94	
Percent Solids Results:		85.2%		85.2%		79.5%		84.8%		85.9%		89.9%		89.4%	
Analyte	CRDL Detection Limit														
Aluminum	40	4520		4660		8930		5020		5280		4470		4540	
Antimony	12	0.23	UJ	0.38	J	0.53	J	0.24	UJ	0.23	UJ	0.22	UJ	0.22	UJ
Arsenic	2	3.3	J	3	J	5.7	J	2	J	1.4	J	1.1	J	1.3	J
Barium	40	66.1	J	34	J	77.9	J	38.5	J	46.5	J	29.3	J	27.2	J
Beryllium	1	0.3	J	0.34	J	0.5	J	0.49	J	0.31	J	0.29	J	0.26	J
Cadmium	1	0.23	U	0.3	J	0.3	J	0.24	U	0.23	U	0.22	U	0.22	U
Calcium	1000	8880		3600		5760		2010		1710		1220		862	J
Chromium	2	7.2	J	8.3	J	11.6	J	5.9	J	7.3		5.8		9.8	
Cobalt	10	3.9	J	4.3	J	7.7	J	4.7	J	4.9	J	4.3	J	3.5	J
Copper	5	8.2	J	10.6	J	18.1	J	6.7	J	9.9		5.7		9	
Iron	20	10000		15000		18700		9600		10700		8500		10300	
Lead	1	158		469		29.9		27.3		28.1		21.1		153	
Magnesium	1000	2100		2060		3240		1460		1590		1430		1170	
Manganese	3	171	J	186	J	430	J	304	J	315		171		1220	
Mercury	0.04	0.25	J	0.38	J	2.9	J	3.5	J	0.12	U	0.11	U	0.72	
Nickel	8	6.5	J	10.3		12.8		5.7	J	7.8	J	7.5	J	13	
Potassium	1000	1090	J	1000	J	1300		901	J	882	J	873	J	703	J
Selenium	1	0.29	J	0.12	UJ	0.27	J	0.12	J	0.23	UJ	0.22	UJ	0.22	UJ
Silver	2	0.23	U	0.23	U	0.25	J	4.7		0.25	J	0.22	U	0.38	J
Sodium	1000	168	J	243	J	287	J	171	J	230	J	231	J	178	J
Thallium	2	0.15	J	0.12	UJ	0.13	J	0.12	J	0.23	UJ	0.22	UJ	0.22	UJ
Vanadium	10	9	J	65.9		14.9		8.6	J	9.2	J	7.7	J	8.5	J
Zinc	4	140	J	131	J	238	J	109	J	51.7	J	34.9	J	106	J
Cyanide	2	NA		NA		NA		NA		NA		NA		NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 33

Test Pit Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		BLDUP TP-05 TP10-05		TP10-05		TP11-05		TP11-05		TP12-05		TP12-05		TP13-05	
Latitude:		42-52-41		42-52-41		42-52-40		42-52-40		42-52-40		42-52-40		42-52-43	
Longitude:		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-09-01		73-08-59	
Sample ID #:		T7558		T7557		T7148		T7147		T7157		T7146		T7156	
Depth of Sample:		2-4'		8-10'		10-12'		17-19'		10-12'		14-16'		0-2'	
Sample Date:		5/25/94		5/25/94		5/17/94		5/17/94		5/17/94		5/17/94		5/16/94	
Percent Solids Results:		89.7%		87.4%		55.9%		84.9%		88.2%		92.8%		84.5%	
Analyte	CRDL Detection Limit														
Aluminum	40	4750		4880		4570		6200		4270		3570		6200	
Antimony	12	0.22	UJ	0.9	J	158	J	0.86	J	0.23	UJ	0.11	UJ	0.24	UJ
Arsenic	2	1.4	J	1.1	J	1	J	1.4	J	1.1	J	1.2	J	1.6	J
Barium	40	27.3	J	33.7	J	53.5	J	30.3		27.1	J	27.1		33.9	J
Beryllium	1	0.28	J	0.28	J	0.27	J	0.29	J	0.29	J	0.24	J	0.31	J
Cadmium	1	0.22	U	0.23	U	3.6	U	0.12	U	0.23	U	0.11	U	0.24	J
Calcium	1000	813	J	1240		4790		999		1110	J	1670		2250	
Chromium	2	7.2		6.4		102	J	7.3	J	5.1		6	J	7	
Cobalt	10	3.6	J	4.2	J	4	J	3.8	J	3.2	J	4.3	J	4.5	J
Copper	5	7.3		9.5		123	J	18.2		6.7	J	7.2		60.1	J
Iron	20	9330		8300		8180		8660		7430		9650		10800	
Lead	1	133		697		498000	J	3310		909		1330		1140	
Magnesium	1000	1180		1670		813	J	1520		1450		1430		1630	
Manganese	3	1490		175		86	J	160		160	J	158		169	J
Mercury	0.04	0.62		0.85		85.9	J	4	J	0.11		0.11	UJ	2130	
lickel	8	11		96		9310		775		7.9	J	41.9		25.3	
Potassium	1000	705	J	2180		3580		3430		1080	J	1200		1180	J
Selenium	1	0.22	UJ	0.23	UJ	R		0.12	UJ	0.23	UJ	0.11	UJ	0.24	UJ
Silver	2	0.22	U	0.23	U	39.8		1.5		0.23	U	0.11	U	41.6	
Sodium	1000	177	J	497	J	1350	J	897		306	J	236	J	1080	J
Thallium	2	0.22	UJ	0.23	U	0.18	UJ	0.12	U	0.23	UJ	0.11	U	0.24	UJ
Vanadium	10	8.7	J	8.9	J	5.5	J	9.6		7.4	J	8.9		9.6	J
Zinc	4	67.2	J	132	J	572	J	194	J	34.5	J	21.7	J	6980	J
Cyanide	2	NA		NA		NA		NA		NA		NA		NA	

NOTES:

Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 33

Test Pit Inorganic Analyses
Burgess Brothers Superfund Site
Remedial Investigation
Woodford and Bennington, Vermont

DESCRIPTION/LOCATION:		TP13-05		TP14-05		TP14-05		TP19-05		TP19-05		TB-E/FB-05		E/FB-TP2-05	
Latitude:		42-52-43		42-52-42		42-52-42		42-52-42		42-52-42		NA		NA	
Longitude:		73-08-59		73-08-59		73-08-59		73-09-01		73-09-01		NA		NA	
Sample ID #:		T7149		T7154		T7155		T7594		T7595		T7158		T7567	
Depth of Sample:		2-4'		10-12'		12-14'		14-16'		20-22'		NA		NA	
Sample Date:		5/16/94		5/17/94		5/17/94		5/25/94		5/25/94		5/18/94		5/26/94	
Percent Solids Results:		85.4%		70.6%		84.5%		77.3%		79.4%		NA		NA	
Analyte	CRDL Detection Limit														
Aluminum	40	5860		5580		4020		3750		3930		20	U	20	U
Antimony	12	0.23	UJ	0.28	UJ	0.46	J	0.26	UJ	0.25	UJ	1	U	2.1	J
Arsenic	2	1.3	J	17.6	J	1.2	J	1.2	J	1.5	J	1	UJ	1	U
Barium	40	29.3	J	2650	J	27	J	24.8	J	24.5	J	5	U	0.5	U
Beryllium	1	0.32	J	0.31	J	0.28	J	0.27	J	0.28	J	0.51	U	0.51	U
Cadmium	1	0.23	U	0.54	J	0.24	U	0.26	U	0.59	J	1	U	1	U
Calcium	1000	1490		6260		1030	J	952	J	1270		4.7	J	83.8	J
Chromium	2	8.2	J	24	J	6.6		5		5.5		2	U	2	U
Cobalt	10	4	J	4.7	J	2.3	J	3.9	J	5.2	J	1	U	1	U
Copper	5	8.8	J	16.1	J	5.8	J	5.9		6.3		1	U	1	U
Iron	20	10200		33800		7200		7900		7790		1.7	J	8.9	J
Lead	1	177	J	417	J	6.4		7		43.5		1	UJ	1	UJ
Magnesium	1000	1600		1690		1360		1270	J	1490		30	U	30	U
Manganese	3	196	J	211	J	66.7	J	113		92.9		0.5	U	0.5	U
Mercury	0.04	53.5	J	0.74	J	0.12	U	3.4		2.5		0.2	U	0.2	U
Nickel	8	17.9		735		114		5.4	J	39.8		2	U	2	U
Potassium	1000	1320		825	J	962	J	787	J	929	J	200	U	200	U
Selenium	1	0.15	J	0.71	UJ	0.24	UJ	0.26	UJ	0.25	UJ	1	UJ	1	UJ
Silver	2	0.48	J	0.28	U	0.24	U	0.26	U	0.25	U	1	U	1	U
Sodium	1000	151	J	250	J	246	J	168	J	216	J	5	U	7	J
Thallium	2	0.12	U	0.14	UJ	0.24	UJ	0.26	UJ	0.25	UJ	1	UJ	1	UJ
Vanadium	10	9.6	J	10.8	J	7.3	J	6.8	J	7.5	J	1	U	1	U
Zinc	4	1180	J	1350	J	28.8	J	31.8	J	62.2	J	1	U	10.6	J
Cyanide	2	NA		NA		NA		NA		NA		NA		NA	

NOTES:
Values reported in mg/kg dry weight (ppm) unless noted otherwise.
*Values reported in µg/l (ppb).
J – Indicates an estimated value.
NA – Not Applicable.
R – Unusable.
U – Compound was analyzed and not detected.
UJ – Non-detected results are approximated.

Table 34
Metal Instrument Detection Limits (ug/L)
For Phase 1A and Phase 1B Investigations

ICP Analysis

Element	Sample Analysis Date 07/12/94 To Present	03/14 - 7/11/94	11/5/93 - 3/13/94	05/28 - 11/4/93	12/21/92 - 5/27/93	08/27 - 12/20/92	05/20 - 8/26/92	Prior To 5/19/92
Silver	1.0	1.0	3.0	4.0	2.0	2.0	3.0	3.0
Alumium	20	20	10	12	12	13	11	11
Antimony	2.0	1.0	15	18	17	20	18	14
Barium	1.0	0.5	2.0	2.0	3.0	1.0	3.0	3.0
Beryllium	0.1	0.5	0.1	0.0	0.1	0.0	0.3	0.0
Cadmium	1.0	0.5	2.0	2.0	2.0	2.0	2.0	3.0
Calcium	1.0	2.0	15	21	34	21	31	20
Chromium	2.0	1.0	2.0	3.0	2.0	4.0	2.0	3.0
Cobalt	2.0	1.0	5.0	3.0	5.0	4.0	3.0	4.0
Copper	1.0	1.0	2.0	3.0	3.0	2.0	3.0	2.0
Iron	1.0	1.0	2.0	3.0	5.0	3.0	4.0	3.0
Magnesium	10	30	15	24	39	19	28	16
Manganese	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Nickel	1.0	2.0	9.0	8.0	8.0	6.0	12	11
[illegible]tassium	100	200	500	500	600	450	600	650
[illegible]ium	2.0	5.0	20	27	16	41	38	30
[illegible]anadium	1.0	1.0	4.0	5.0	5.0	4.0	5.0	4.0
Zinc	1.0	1.0	1.0	2.0	2.0	3.0	2.0	3.0
				Furnace Analysis				
Arsenic	1.0	1.0	2.0	4.0	2.0	2.0	1.0	2.0
Selenium	1.0	1.0	2.0	3.0	3.0	3.0	2.0	3.0
Lead	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Thallium	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
Mercury	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Table 34
Metal Instrument Detection Limits (ug/L)
For November and February Interim Sampling Program

ICP Analysis

Element	
Silver	3.0
Alumium	46
Antimony	13
Barium	2.0
Beryllium	1.0
Cadmium	5.0
Calcium	9
Chromium	8.0
Cobalt	5.0
Copper	3.0
Iron	8.0
Magnesium	10
Manganese	4.0
Nickel	8
Potassium	280
Sodium	1400
Vanadium	4.0
Zinc	4.0

Furnace Analysis

Arsenic	1.0
Selenium	2.0
Lead	1.0
Thallium	1.0
Mercury	0.2

Appendix 16

DRILLING OBJECTIVES, PROCEDURES AND RI WORK PLAN MODIFICATIONS FOR MONITORING WELLS OUTSIDE THE LANDFILL AREA

a. West of the Landfill Area

Well nests West of the Landfill Area include locations W-07, W-08, W-09 and W-25. The RI Work Plan specified that these well nests be installed first to allow additional well clusters to be installed further downgradient in the Phase 1A program, if significant contamination was indicated in soil or ground water from these wells. However, during the drilling program, the depth to competent bedrock was found to be significantly greater than anticipated. Given that installation of the well nests West of the Landfill Area and receipt of sampling results would require a significant amount of time, the need for future wells will be addressed based on results of sampling these well nests during the scheduled ground water sampling events.

Shallow Kame Wells

Wells were installed in the upper part of the kame sand unit at the water table and designated as W-07 S1, W-08 S1, W-09 S1 and W-25 S1 as specified in the RI Work Plan and discussed in Section 4.01 Ground Water Monitoring Well Installation. Less than 10 feet of saturated sand was found below these S1 wells which were installed at the water table. Therefore, S2 wells were not installed

at these well nests in accordance with the RI Work Plan.

Soil samples were collected to the top of glacial till, visually logged and screened using a PID. Sand samples from the borings for W-07 and 08 were submitted for TOC analysis as specified in the RI Work Plan. No samples from W-07 S2 and 08 S2 were submitted for geotechnical analysis as provided in the RI Work Plan, because these wells were not installed.

Intermediate Weathered Bedrock Wells (Shallow and Deep)

Intermediate wells were installed to develop a monitoring network at two levels containing sandier materials in the weathered bedrock, as the two sandier zones were believed to contain higher ground water yields. Furthermore, shallow intermediate wells were installed in the zone where PID readings were detected during drilling W-09B. Shallow intermediate (SI) wells were installed at each of the well nests West of the Landfill Area, designated as W-07 SI, W-08 SI, W-09 SI and W-25 SI. Given that the depth to competent bedrock was much greater than anticipated, bedrock wells W-07B and W-25B were replaced with deep intermediate (DI) wells W-07 DI and W-25 DI. Shallow intermediate wells were screened at elevations similar to each other, as were the deep intermediate wells, along with W-04 SI and W-04 DI as described in discussion of the Marshy Area well clusters. Intermediate wells were drilled using 6-inch ODEX steel casing and 4-inch casing advancement methods. No soil samples were collected during shallow intermediate well installations, as samples were already collected in drilling prior holes at those locations.

Competent Bedrock Wells

Two competent bedrock wells were installed in the upper 10 to 60 feet of bedrock and designated as W-08B and W-09B. W-07B and W-25B were not installed, however, intermediate wells were installed at each of the four clusters as described further below. The objective of the bedrock wells was to evaluate the potential existence and thickness of a till layer, vertical flow gradients between the sand and bedrock, horizontal flow conditions in the bedrock, bedrock yields, and bedrock ground water quality. Separate phase liquid contamination was not observed in the overburden at these clusters, nor was greater than 50 ppm volatiles by headspace in soils observed. Therefore, bedrock wells W-08B and W-09B were installed at the locations scheduled in the RI Work Plan. Split spoon samples were collected from the top of till to the bedrock surface as described in the RI Work Plan, except as noted below. Till samples from W-07B (later changed to W-07 DI) and W-08B borings were submitted for TOC analysis, as specified in the RI Work Plan. Since the till unit was continuous and contingent wells were installed, till samples were not submitted for analysis of vertical permeability, consistent with the RI Work Plan.

In drilling W-07B, the strata that was initially believed to be bedrock was later determined to be a large boulder. The casing was therefore, permanantly grouted in the boulder. For this reason, casing was advanced 10 feet into the competent bedrock at other wells rather than 5 feet into the top of the competent bedrock as specified in the RI Work Plan. As drilling continued at this W-07B location by open hole methods, the borehole wall collapsed. Since the drilling could not proceed further due to annulus restrictions, the casing was left in place and the borehole grouted to grade.

During drilling at the W-09 well nest, a temporary local decontamination pad constructed with polyethylene sheeting and drill rods was installed. The local decontamination of drilling rigs was performed in the interest of preserving the wetland from heavier traffic and was also performed at well cluster W-04, as described below in discussion of Marshy Area well clusters.

Soil Sampling Procedure and Frequency

The RI Work Plan specified a maximum of 50 blows per 6 inches during split spoon sampling, and if split spoon samples were unsuccessful then drill cuttings would be observed to characterize the till. Blow counts were collected in accordance with the RI Work Plan. However, where dense till was encountered, more than 50 blow counts per 6 inches was typically required. Increased penetration and improved recoveries required to conduct PID screening tests resulted when a large air rotary drilling rig collected split spoon samples using a pneumatic air hammer instead of the 140 pound hammer. However, blow counts could not be collected with that rig due to the nature of the pneumatic equipment. Therefore, in order to meet the objective of characterizing the till at the Site, blow counts were not collected during drilling at the W-07 (from 34 feet down) or W-09 clusters due to the dense till at those locations.

The RI Work Plan also specified that sampling be performed with 2-foot, 1-3/8-inch ID diameter split spoons. Due to the thickness of the till and weathered bedrock layers, 5-foot, 4-inch diameter split spoons were used to increase recoveries and the drilling rate while sampling borings. The 5-foot spoons were used where possible at borings being drilled with ODEX rigs, as the large 5-foot spoons are typically best advanced with an air percussion hammer. The 5-foot spoons were not

applicable to the B-61 drilling rigs with casing advancement systems, as the B-61s use manual hammers only.

The procedure assumed that while sampling with 5-foot spoons, blow counts would first be attempted using the automatic or manual hammers. If more than 50 blows per 6 inches were recorded, the air percussion hammer was used to drive the split spoon up to 5 feet. Following the removal of the split spoon, blow counts were attempted on the next 5-foot interval. On continuously sampled borings, including W-01B, W-08B and W-09B, if penetration on each attempt was less than 2 feet, the boring was drilled 2 feet and a sample was attempted again. If greater than 2 feet were obtained, the boring was drilled to that depth and a sample was attempted again.

At W-08B and 09B, split spoon samples were collected continuously in accordance with the RI Work Plan. At W-07B (prior to its replacement with W-07 DI), which was to be sampled in 4-foot intervals, if less than 2 feet of penetration was obtained, the boring was drilled 4 feet and a sample obtained again. If greater than 2 feet was penetrated, the boring was drilled 2 feet beyond that point and another sample attempted.

The same occurred on 5-foot sampling interval borings, including W-25B (later replaced with W-25 DI) as well as W-04B in the Marshy Area, except that if greater than 2 feet was penetrated, then the boring was drilled 3 feet beyond this point and the sampled attempted again. A single PID test was conducted on a composite from each spoon unless two distinct layers were noted.

Drilling conditions at W-09B precluded split spoon sampling in certain sand zones due to running sand inside the casing. That judgement was made in the field by O'Brien & Gere in an effort to avoid creating excess clogging in the ODEX extrusion system resulting from sand sampling, which would prevent completion of the boring.

During shallow drilling of W-08B with a B-61 rig and collection of continuous split spoon samples in accordance with the RI Work Plan, the borehole became unstable due to cobbles that collapsed into the hole. The casing was removed, the borehole was grouted in accordance with procedures in the RI Work Plan, and the boring was redrilled with an air rotary rig.

During drilling of W-25B, split spoon samples were collected continuously in sand to a depth of 19 feet and were collected every 5 feet in till to a depth of 29 feet, at which point a pack of boulders precluded advancement of augers and casing. The casing was removed; the hole was grouted and continued at a later date with an air rotary rig.

b. Upgradient Wells

In drilling the location designated as SBW-13 in the RI Work Plan, no landfill materials were encountered and the soils did not exhibit PID readings or indications of separate phase solid or liquid waste materials. Therefore, upgradient well W-01B was installed at that location to provide background information as specified in the RI Work Plan and shown on Figure 11. A shallow kame sand well, W-01 S1, was also installed at this location. Samples were collected continuously through the overburden, sand, and glacial till. Wells W-01 S1 and W-01B were installed in accordance with

procedures outlined in the RI Work Plan except as described below.

The borehole for W-01B was sampled continuously in accordance with the RI Work Plan. As described in the section above regarding well nests West of the Landfill Area, sampling was performed at W-01B using 5-foot, 4-inch diameter split spoons rather than the 2-foot, 1-3/8-inch diameter split spoons specified in the RI Work Plan. The 5-foot split spoons were used to increase the drilling rate. The borehole at W-01B was drilled with an air rotary rig using an ODEX system and 6-inch casing followed by a B-61 rig with 4-inch casing to approximately 5 feet into competent bedrock. Rock was then excavated using a 3-7/8-inch roller bit to depth.

The annulus between the 4-inch and 6-inch casing was then grouted and allowed to cure for 24 hours. Residual grout within the casing was then excavated and the borehole flushed with potable water.

c. Hillside Area Wells

Two wells were installed to bracket the water table in the till in the Hillside Area, W-23T and W-24T, based on an apparent area of detectable volatiles from soil gas survey data. W-23T was installed at the location identified in the RI Work Plan. W-24T was relocated based on results of the soil gas survey.

The boreholes were advanced with hollow stem augers. Split spoon samples were collected in 5-foot intervals and one soil sample exhibiting the highest PID reading from each boring was submitted

for TCL volatiles analysis in accordance with the RI Work Plan. W-24T was installed with 10 feet of screening to a depth of 7 feet below the water table as required by the RI Work Plan. W-23T was installed with 5 feet of screening to a depth of 3 to 4 feet below the water table, since the water table was found to be shallower than 8 feet.

d. Marshy Area Well Clusters

Marshy Area well clusters include locations W-03, W-04, W-06, W-11, W-12 and W-22. The RI Work Plan specified that additional monitoring wells be installed in the Marshy Area to evaluate the horizontal and vertical extent of VOC and metals contamination previously identified in existing wells. Borings performed in this area were installed with an all-terrain vehicle (ATV) drilling rig utilizing 4-1/4-inch hollow stem augers. A boring for a lower kame sand well (S2) was drilled at the W-06 location only, since the bottom of the kame sand deposit was not encountered during drilling of the existing kame sand well, W-6 and 6D. Since greater than 10 feet of saturated sand was not found below W-06 S1, a lower kame sand well was not installed. Upper kame sand wells were drilled at W-11, W-12, and W-22 and were installed at these locations. W-22 was installed at a different location from that described in the RI Work Plan (approximately 100 feet south) after discussions with USEPA, in order to provide better rig accessibility and minimize disruption to the wetlands.

A shallow glacial till well was installed at the W-03 cluster and designated W-03T, due to elevated PID readings at depth. The RI Work Plan indicated a well to be installed at this location regardless of the kame sand thickness. Continuous samples were collected to a depth of 18 feet (4 feet into

till) at W-03T (W-03 S2). Numerous boulders and very dense till were encountered at this location. A split spoon was attempted at 18 to 20 feet with no penetration, and again at 27-1/2 feet but was unsuccessful. A split spoon sample was collected from 20 to 21-1/2 feet with PID values of 7 and 10 ppm, respectively. Logs and analytical data referencing W-03 S2 or W-03T should be recognized as the same boring.

PID readings in excess of 50 ppm were measured while drilling the test boring for the original loccation of W-04B. In accordance with RI Work Plan, the bedrock well was relocated to prevent the construction of potential conduits for downgradient migration of contaminants. The revised location was accessed from the temporary well access road north of W-09 using a temporary crossing constructed over the wetlands and an access road similar to the one constructed West of the Landfill Area. The crossing was constructed to create minimal impact on the wetland area and traffic across the access was minimized as specified by VTDEC. Monitoring well W-04B, initially located near W-04S was drilled using drive and wash methods with 6-inch casing. The advancement of 6-inch casing could no longer be achieved upon reaching a large boulder at a depth of 21 feet. The borehole was furthered advanced using openhole water rotary methods. Johnson Biodegradable Revert® was used to stabilize the borehole. This material "reverts" to water in 72 hours and is widely used for drinking water wells. Since the use of Revert® was determined to be unacceptable by USEPA, the well was abandoned and grouted in place. Four-inch casing was set into the borehole during the grouting process in the event the borehole was selected for well installation in the future. The casing was cut flush to grade at the end of the drilling program.. Due to the thickness of till and weathered bedrock encountered while drilling the bedrock wells in the Marshy

Area, W-04B was drilled with an air rotary rig utilizing the six-inch ODEX casing advancement method followed by a B-61 rig with four-inch casing advancement and further telescoped using a three-inch casing advancement system as described for the well nests West of the Landfill Area. Five-foot split spoons were used to collect soil samples.

Following discussion with USEPA regarding the bedrock drilling program, some modifications were made regarding installation of wells in the Marshy Area. The bedrock work scheduled at W-11B was cancelled due to the thickness of weathered bedrock, leaving installation of a shallow well, W-11 S1, at that location. A shallow intermediate (SI) and deep intermediate (DI) well were installed at the revised W-04 cluster location.

The RI Work Plan included a provision for additional analytical testing of archived soil samples. Because free phase contamination or discoloration was not observed in the Marshy Area, additional metals analysis was not performed in accordance with provisions in the RI Work Plan.

In order to minimize disruption to the Marshy Area by reducing the number of times the area was entered and exited, decontamination was performed utilizing pre-cleaned augers. Augers were cleaned in accordance with the RI Work Plan, and the back of the rig was brush - washed with Alconox and water. Decon water was collected in a plastic tub. When collecting soil samples for organics, sampling equipment, such as split spoons, were decontaminated in accordance with the RI Work Plan.

While drilling at well cluster W-04, a temporary local decontamination pad was assembled as indicated for W-09B West of the Landfill Area. The pad consisted of polyethylene sheeting and drill rods. Local decontamination was performed in the interest of preserving the wetland in consideration of wet and muddy conditions encountered at the Site in the spring.

Appendix 17

2.01.8 Field Screening for Presence of DNAPL in Soils

Samples from test pits and soil borings in the landfill will be field-screened to determine the likelihood that DNAPL is present. Three screening procedures will be used: i) visual observations, ii) soil headspace screening for Total Organic Vapors (TOV) using a photoionization detector (PID), and iii) the ultraviolet (UV) light test. The procedures for making visual observations and conducting PID tests are described in the Work Plan and QAPP. The hydrophobic dye soil-water shake test described by Cohen et al (Cohen et al, 1992) will be used if some uncertainty remains after conducting the above-mentioned tests. Visual observations will be made of materials collected from every 2 foot sampling interval. Soil headspace screening will then be performed. If the resulting PID headspace reading indicates that DNAPL may be present, the UV test and hydrophobic dye soil-water shake test (if needed) will then be used to verify whether DNAPL is present or absent.

The rationale for this three-step screening procedure is based on the work of Cohen et al (1992), who examined a number of screening methods to determine their usefulness in detecting the presence of NAPL. They tested three types of NAPL (kerosene, chlorobenzene, and tetrachloroethylene (PCE)) using seven different screening methods. They concluded that it is very difficult to detect the presence of colorless NAPLs (such as PCE and TCE) by unaided visual examination. They further concluded that for volatile NAPLs, analysis of organic vapors in soil sample headspace can be used to screen samples for further examination and possibly to infer the present of NAPL. In their tests of headspace screening using PCE as the soil contaminant, they found that organic vapor analyzer (OVA) readings in the soil

headspace reached a maximum of 10 ppm when PCE was present as a dissolved contaminant only (i.e., when no NAPL was present but contaminated water was present in the soil). However, when PCE was present as a NAPL, the OVA headspace readings ranged from 30 ppm to >1000 ppm, depending on the percent NAPL saturation in the soil (see Figure 3 of Cohen et al, 1992).

From these results, one could conclude that an OVA headspace reading exceeding 10 ppm would be a conservative indicator of the presence of PCE as a NAPL. Since TCE, the primary potential NAPL at the Burgess Bros. Site, is more volatile than PCE, it would be expected to yield even higher OVA headspace readings than PCE when present as a NAPL. Hence, an OVA or PID reading of 10 ppm or greater will be used as a conservative indicator of the possible presence of TCE or PCE as a NAPL. For every sample, OBG will screen soil headspace samples with a PID and select those samples with a PID reading greater than 10 ppm for further examination by the UV test and hydrophobic dye test, if needed. The UV test will be used first. The procedures are described later in this protocol. The UV test will be used first since according to Cohen, its reliability is close to that of dye and can be more readily used in dense and plastic soils and fill that do not mix well. In evaluating sandy soils likely to occur beneath the landfill, the hydrophobic dye may be more easily applied. Field conditions and the professional opinion of the OBG hydrogeologist and U.S.EPA's oversight personnel will be used to employ the most applicable NAPL field screening method. The unaided hydrophobic dye test procedures are further detailed below. UV test methods are described later in this section.

Hydrophobic Dye Soil-Water Shake Test (Adapted from Cohen et al, 1992)

1. Using a spoon, place approximately 20 cm^3 of soil into a 50-mL polypropylene test tube. Other plastic containers may be substituted for the polypropylene tube, if necessary. (Cohen et al strongly recommends use of plastic containers over glass containers because NAPLs generally wet plastic better than glass, thereby enhancing NAPL detection on the container wall).
2. Add 20 mL of DIUF water to the test tube.
3. Add approximately 2 mg (an amount that would rest on the edge of a toothpick) of Sudan IV dye to the test tube. Do not allow the dye to contact one's skin or eyes, since it is an irritant and possible mutagen.
4. Mix the contents of the tube by shaking manually for 10 to 30 seconds and examine for NAPL presence. If NAPL is present, the dye should tint the NAPL red and make it visually apparent. Take a photograph of the tube if NAPL is visually apparent, making sure to record the sampling interval and the photograph number in the field notebook.
5. Dispose of the tube and its contents in a separate container from other sampling residues.

DNAPL Observation

In the event that DNAPL is identified within a 2 foot sampling interval, particularly in TP-12 boring, drilling operations will be stopped immediately and the need for possible upgrading of personal protective equipment will be assessed. The EPA Remedial Project Manager and the OBG project manager will then be notified and a determination will be made if further drilling or excavations are warranted.

Ultraviolet Test Methods

Background: An ultraviolet (UV) detection lamp unit will be field tested and, if successful, used as the preferred screening tool for organic NAPL's. The NAPL's suspected to be present at the Burgess Bros. site include principally petroleum based fuel and chlorinated solvents. If field data suggests that this method requires additional screening, then a hydrophobic dye will also be used.

UV Fluorescence refers to the spontaneous emission of visible light. Many unsaturated aliphatic hydrocarbons such as TCE and PCE together with fuel derivatives such as aromatic compounds will fluoresce. (See "DNAPL Site Evaluations", Cohen and Mercer 1992).

UV examination of soil cores is conducted in a metal viewing box with a UV lamp. The fluorescence of NAPL's typically is milky white and is therefore more effective with darker soils.

Procedures: The procedures to be followed for screening each soil core is provided in the attached specification. A sample of natural soil with a small amount of diesel fuel or TCE added will be field tested to determine if the procedure is adequate. The sample will then be appropriately contained in a labelled D.O.T. drum for contaminated soil cuttings. After testing, each field sample will be handled in accordance with

appropriate procedures for handling Investigation Derived Waste (ID) in the QAPP.

Based on UV screening, the presence of NAPL in the soil core will be noted on the log describing the depth, visual appearance, and accompanying PID testing data. One half of the soil core cut longitudinally will be placed relatively undisturbed in the UV box for analysis. The other half will be used for PID testing and possible volatile organics analysis. A representative section of each core will be contained in VOA containers for possible analysis as described in Table 1B-1.

Appendix 18

AVERAGES AND RANGES OF THE CONCENTRATION OF SOME ELEMENTS IN UNCONTAMINATED SOILS

All values in ppm, dry weight

	Average Conc. of Element Found in Uncontaminated Soils	References for Averages	Conc. Range of Element Found in Uncontaminated Soils	References for Ranges
Aluminum	Eastern U.S.* 33,000	8, 43	Albany, NY Area 1,000 - 25,000	8, 43
	Agricultural Soil 0 - 30 cm Eastham, MA 34,000	24		
Arsenic	5	5, 8, 16, 29, 36, 40, 43, 44, 50, 53	U.S. Range 0.1 - 45	1, 5, 29, 36, 50, 52 53
			NYS 3-12	52
			Albany Area <0.1-6.5	43
Barium	Average abundance in earth's crust 430	31	NYS 15-600	43, 44
	Eastern U.S.* 290	8, 43	Albany Area 250-350	43
	Eastham, MA Soil 180	24		
Beryllium	All Soils 0.3	5	All Soils 0.1-10	31, 50
	Eastern U.S.* 0.6	8, 43, 44	Canadian Surface Soils 0.1 - 0.89	1
			NYS 0 - 1.75 (except for 1 sample 1.75-7)	43, 44
			Albany Area 0 - 0.9	43, 44
Cadmium	Average abundance in earths crust 0.15-0.2	31, 36	0.01 - 2	5
	26 MA soils and 15 northeastern soils 0.2	13, 26	0.0001 - 1.0	26, 35, 36, 41, 47
			soils of nonvolcanic origin 0.01-1.0	11
	0.35	5	soils of volcanic origin up to 0.45	11
	98 NYS mineral agricultural soils 0.21	26	26 MA soils 0.01 - 0.88	26

	Average Conc. of Element Found in Uncontaminated Soils	References for Averages	Conc. Range of Element Found in Uncontaminated Soils	References for Ranges
Calcium	Eastern U.S.* 3,400	8, 23	Eastern U.S.* 100-28,000	43
	70 Residential Soils, Mich. 2,300	22	Eastern U.S.* 100-16,000	8
	91 Agricultural Soils, Mich. 1,400	22	NYS 130-35,000	43
	127 NYS Agricultural Soils 1,651	21	Albany Area 150-5,000	44
			Albany Area 2,900-6,500	43
Chromium	Canadian soils 43	6	Most U.S. soils 25-85	1
	World soils 20	50	Eastern U.S.* 1-100	8
	Eastern U.S.* 33	8,43	10 NJ soils 20-75	39
			NYS 1.5-40	8
			Albany Area 1.5-25	8, 43
Cobalt	All soils 7	5, 8, 31, 36, 50	0.1-40	14, 36
	Eastern U.S.* 5.9	43	NJ Agr. Soils 2-18	39
			NYS 2.5-60	8, 43
			Albany Area 2.5-6	43
Copper	All soils 30	26	2-250	5, 36
	All soils 20	36, 49, 50	10-80	23
	10 NJ Agr. Soils 23	39	1-10 under humid conditions	14
	Eastern U.S.* 13	8.43	up to 50 in arid conditions	14
			26 MA Soils 5-38	26
			Albany Area <1-15	8, 43

	Average Conc. of Element Found in Uncontaminated Soils	References for Averages	Conc. Range of Element Found in Uncontaminated Soils	References for Ranges
Iro	Eastern U.S.* 14,000	8, 43	2,000 - 550,000	5
	Eastham MA Agr. Soil 13,000	24	700 - 100,000	23, 43
			Eastham, MA 11,000-14,000	24
			Albany Area 17,500 - 25,000	8, 43
Lead	All soils 10	5, 36, 50	Range in "normal" soils 10-37	1, 33
	Eastern U.S.* 14	8, 29, 33, 43	95% of U.S. soils 4-61	29
	98 NJ agr. soils mineral 15	26	Albany Area 1 - 12.5	8, 43
	organic 20			
	173 NY agr. soils 17	47		
Mag ium	All soils 6,300	50	400 - 9,000	5
	Eastern U.S.* 2,300	8	100 - 5,000	8, 43
	2,100	43		
			Albany Area 2,500 - 6,000	8
			1,700 - 4,000	43
anganese	All soils 850	1, 50	100 - 4,000	1
	Eastern U.S.* 285	8	10 Agr. NJ soils 130-1,560	39
	260	43		
	10 Agr. NJ Soils 789	38	NJ Cultivated Soils 264-736	4
	Eastham, MA Agr. Soil 345	24	NYS 50-5,000	8, 43
			Albany Area 400-600	8, 43
rcury	All Soils 0.06	1, 2, 5	0.001 - 0.2	2, 13, 28, 50
	Eastern U.S.* 0.081	43	Albany Area 0.042 - 0.066	43

	Average Conc. of Element Found in Uncontaminated Soils	References for Averages	Conc. Range of Element Found in Uncontaminated Soils	References for Ranges
Mercury (cont.)	234 samples Sackatchewan, Canada 0.081	15		
	Northeastern U.S. upper limit 0.04	10		
Nickel	All Soils 40	5, 26, 36, 50	0.5 - 60	26, 39, 47
	All Soils 20	1	26 MA Agr. Soils 6-41	26
	173 NY Agr. Soils 19.5	47	NYS 0.5-25	8
	Eastern U.S. 12	8.43	Albany Area 6-12.5	8, 43
Potassium	U.S. Average 12,000	5, 8, 20, 24, 50	All Soils 100-37,000	5, 8, 20, 4
	Eastern U.S.* 7,400 12,000	8 43	NYS 8,500-43,000	43
			Albany Area 12,500 - 17,500	42, 43
elenium	0.2	12, 36	0.01 - 12	5, 36
	Eastern U.S.* 0.3	43	Eastern U.S. <0.1-3.9	43
	Eastham, MA 3.5	24	Albany Area <0.1-0.125	43
Sodium	All Soils 6,300	50	Eastern U.S.* <500-50,000 150-15,000	43 8
	Eastern U.S.* 2,500	8, 43	Albany Area 6,000 - 8,000	43
Vanadium	All Soils 100	5, 50	Eastern U.S.* 1-300	8, 43
	Eastern U.S.* 43	8, 43	10 NJ Agr. Soils 11-119	50
	10 NJ Agr. Soils 53.6	39	50 U.S. Soils 2-270	39
			Albany Area 25-60	

	Average Conc. of Element Found in Uncontaminated Soils	References for Averages	Conc. Range of Element Found in Uncontaminated Soils	References for Ranges
Zinc	50	26, 36, 41, 50	All Soils 10-300	26, 36, 41
	Eastern U.S.* 40	8, 24, 29, 43	9-50	31
	173 NY Agr. Soils 64	47	Albany Area 37-60	43

* Eastern U.S. Soil values are the geometric mean element concentration from a depth of 24 cm, in soils east of the 97th meridian.

LITERATURE CITED

1. Adriano, D.C. 1986. Trace Elements in the Terrestrial Environment. Springer-Verlag, New York, 529 p.

2. Anderson, Arne. 1979. "Mercury in Soils". In: The Biogeochemistry of Mercury in the Environment, Jerome O. Nriagu ed. Elsevier/North Holland Biomedical Press, New York.

3. Bartlett, R.J. and J.M. Kimble. 1976. "Behavior of Chromium in Soils: I Trivalent Forms". Journal of Environmental Quality. Vol. 5, No. 4, p. 379-382.

4. Blair, A.W. and A.L. Prince. 1936. "Manganese in New Jersey Soils". Soil Science, Vol. 42, p. 327-333.

5. Bowen, Humphrey J.M. 1979. Environmental Chemistry of the Elements. Academic Press, New York.

6. Cary, E.E. 1982. "Chromium in Air, Soil and Natural Waters". In: Biological and Environmental Aspects of Chromium, Sverre Langard ed. Elsevier Biomedical Press, New York.

7. Chattopadhyay, Amares and R.E. Jervis. 1974. "Multielement Determination in Market-Garden Soils by Instrumental Photon Activation Analysis". Analytical Chemistry, Vol. 46, No. 12, p. 1630-1639.

8. Connor, Jon J., Hansford T. Shacklette. Background Geochemistry of Some Rocks, Soils, Plants, and Vegetables in the Conterminous United States, with sections on "Field Studies" by R.J. Ebens, J.A. Erdman, T.A. Miesch, R.R. Tidball, and H.A. Tourtelot. U.S. Geological Survey Professional Paper, 574-F, 168 p.

9. DeGroot, R.C., T.W. Popham, L.R. Gjovik, and T. Forehand. 1979. "Distribution of Arsenic, Copper and Chromium Around Preservative - Treated Wooden Stakes". J. of Env. Qual., Vol 8, No. 1, p. 39-41.

10. Dewey, Dr. J.E. 1983. Mercury - An Overview. Cornell Fact Sheet, Chemicals - Pesticides Program.

11. Eisler, Ronald. 1985. "Cadmium Hazards to Fish, Wildlife and Invertebrates: A Synoptic Review". Biological Report 85(1.2), Contaminant Hazard Reviews Report No. 2. Fish and Wildlife Service, U.S. Dept. of the Interior.

12. Eisler, Ronald. 1985. "Selenium Hazards to Fish, Wildlife and Invertebrates: A Synoptic Review". Biological Report 85(1.5), Contaminant Hazard Review Report No. 5, Fish and Wildlife Service, U.S. Dept. of the Interior.

13. Frank, R., K. Ishida, and P. Suda. 1976. "Metals in Agricultural Soils of Ontario". Canadian Journal of Soil Science, Vol. 56, p. 181-196.

14. Goldschmidt, Victor M. 1958. Geochemistry. Claredon Press, Oxford, England.

15. Gracey, H.I. and J.W.G. Stewart. 1974. "Distribution of Mercury in Saskatchewan Soils and Crops". Can. J. Soil Sci., Vol. 54, p. 105-108.

16. Greaves, J.E. 1934. "The Arsenic Content of Soils". Soil Science, Vol. 38, p. 355-362.

17. Hiltbolt, A.E. 1975. "Behavior of Organoarsenicals in Plants and Soils". In: Arsenical Pesticides. ACS Symposium Series 7. American Chemical Society, Wash., D.C., p. 53-69.

18. Holmes, R.S. 1943. "Copper and Zinc Contents of Certain United States Soils". Soil Science, Vol. 56, p. 359-370.

19. Holmes, R.S., W.E. Hearn, and H.G. Byers. 1938. "The Chemical Composition of Soils and Colloids of the Norfolk and Related Soil Series". U.S.D.A. Technical Bulletin #594.

20. Jackson, Marion L. 1964. "Chemical Composition of Soils". In: Chemistry of the Soil, Firman E. Bear ed. Second edition. Reinhold Publishing Corp., New York, p. 71-141.

21. Klausner, S.D. and W.S. Reid. 1981. Summary of Soil Test Results for Field Crops Grown in New York State During 1979. Agronomy Mimeo 81-27.

22. Klein, David H. "Mercury and Other Metals in Urban Soils". Env. Sci. Tech., Vol. 6, No. 6, p. 560-562.

23. Kraushopf, Konrad B. 1972. "Geochemistry of Micronutrients". In: Micronutrients in Agriculture, J.J. Mortvedt ed. Soil Science Society of America, Inc. Madison, Wisconsin.

24. Laul, J.C., W.C. Weimer, and L.A. Rancitelli. 1983. "Biogeochemical Distribution of Rare and Other Trace Elements in Plants and Soils". Water, Air and Soil Pollution, Vol. 11, p. 819-827.

25. Levesque, M. 1974. "Selenium Distribution in Canadian Soil Profiles". Canadian Journal of Soil Science, Vol. 54, p. 63-68.

26. Luce, H.D. 1985. "Soil Resources of the Northeast". In: Criteria and Recommendations for Land Applications of Sludges in the Northeast. The Pennsylvania State University. Bulletin 851.

27. MacLean, A.J., B. Stone and W.E. Cordukes. 1973. "Amounts of Mercury in Soil of Some Golf Course Sites". Can. J. Soil Sci., Vol. 53, p. 130-132.

28. McKeague, J.A. and B. Kloosterman. 1974. "Mercury in Horizons of Some Soil Profiles in Canada". Can. J. Soil Sci., Vol, 54, p. 503-507.

29. Miesch, A.T. and Claude Huffman Jr. 1972. "Abundance and Distribution of Lead, Zinc, Cadmium and Arsenic in Soils". In: Helena Valley, Montana Area Environmental Pollution Study. U.S. EPA, Office of Air Programs, Research Triangle Park, N.C., p. 65-80.

30. Mills, J.G. and M.A. Zwarich. 1975. "Heavy Metal Content of Agricultural Soils in Manitoba". Can. J. Soil Sci., Vol. 55, p. 295-300.

31. Mitchell, Robert L. 1964. "Chemistry of the Soil". In: Trace Elements in Soils, Firman E. Bear ed. Reinhold Publishers Corp., New York, p. 320-368.

32. Mortvedt, J.J. 1987. "Cadmium Levels in Soils and Plants from Some Long-term Soil Fertility Experments in the U.S.A." J. of Env. Qual., Vol. 16, No. 2, p. 137-142.

33. Nriagu, J.O. 1978. "Lead in Soils, Sediments and Major Rock Types". In: The Biogeochemistry of Lead in the Environment, J.O. Nriagu ed. Elsevier/North Holland Biomedical Press, New York.

34. Page, A.L. and F.T. Bingham. 1973. "Cadmium Residues in the Environment". Residue Review, Vol. 48, p. 1-44.

35. Page, A.L., A.C. Chang and Mohamed El-Amamy. 1987. "Cadmium Levels in Soils and Crops in the United States". In: Lead, Mercury, Cadmium and Arsenic in the Environment, T.C. Hutchinson and K.M. Meema eds. John Wiley and Sons, Ltd., New York, p. 119-146.

36. Peterson, P.J. and B.J. Alloway. 1979. "Cadmium in Soils and Vegetation". In: The Chemistry, Biochemistry and Biology of Cadmium, M. Webb ed. Elsevier/North Holland Biomedical Press, New York.

37. Pierce, A.P., J.M. Botbol and R.E. Learned. 1970. "Mercury Content of Rocks, Soils and Stream Sediments". In: Mercury in the Environment. U.S. Geological Survey Professional Paper. Vol. 713, p. 14-16.

38. Pierce, F.J., R.H. Dowdy and D.F. Grigal. 1982. "Concentrations of Six Trace Metals in Some Major Minnesota Soil Series". J. of Env. Qual, Vol. 11, No. 3, p. 416-422.

39. Prince, Arthur L. 1957. "Trace Element Delivering Capacity of Ten New Jersey Soil Types as Measured by Spectrographic Analysis of Soils and Mature Corn Leaves". Soil Science, Vol. 84, p. 413-418.

40. Reay, P.F. 1972. "The Accumulation of Arsenic from Arsenic-rich Natural Waters by Aquatic Plants". J. of Applied Ecology, Vol. 9, p. 557-565.

41. Schroeder, Henry A., Alexis P. Nason, Isabel H. Tipton, Joseph J. Balassa. 1967. "Essential Trace Metals in Man: Zinc. Relation to Environmental Cadmium". Journal of Chronic Diseases, Vol. 20 p. 179-210.

42. Sell, J.L., F.D. Deitz and M.L. Buchanan. 1975. "Concentration of Mercury in Animal Products and Soils of North Dakota". Archives of Environmental Contamination and Toxicology, Vol. 3, p. 278-288.

43. Shacklette, Hansford T. and Josephine G. Boerngen. 1984. Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States. U.S. Geological Survey Professional Paper 1270. U.S. Government Printing Office, Washington, D.C. 105 p.

44. Shacklette, H.T., J.C. Hamilton, J.G. Boerngen and J.M. Bowles. 1971. Elemental Composition of Surficial Materials in the Conterminous United States. U.S. Geological Survey Professional Paper 574-D. Vol. 713-715A. 71 p.

45. Slater, C.S., R.S. Holmes and H.G. Byers. 1937. "Trace Elements in the Soils from the Erosion Experiment Stations with Supplementary Data on Other Soils". U.S.D.A. Technical Bulletin No. 552.

46. Snider, H.J. 1943. "Manganese in Some Illinois Soils and Crops". Soil Science, Vol. 56, p. 187-195.

47. Sommers, Lee, V. VanVolk, Paul M. Giordano, William E. Sopper, and Robert Bastin. 1987. "Effects of Soil Properties on Accumulation of Trace Elements by Crops". In: Land Application of Sludge, A.L. Page, T.G. Logan, and J.A. Ryan eds. Lewis Publishers, Chelsa, Michigan.

48. Tepper, L.B. 1980. "Beryllium". Metals in the Environment, H.A. Waldron ed. Academic Press, New York, 327 p.

49. Thornton, Iain. 1979. "Copper in Soils and Sediments". In: Copper in the Environment, Part I. Ecological Recycling, Jerome O. Nriagu ed. John Wiley and Sons Inc., New York.

50. Vinogradov, A.P. 1959. The Geochemistry of Rare and Dispersed Chemical Elements in Soils. Second Edition Consultants Bureau, New York. 189 p.

51. Walsh, Leo M. and D.R. Keeney. 1975. "Behavior and Phytotoxicity of Inorganic Arsenicals in Soils". In: Arsenical Pesticides. ACS Symposium Series 7. Americal Chemical Society, Wash. D.C., p. 53-69.

52. Walsh, Leo M., Malcolm M. Sumner, and Dennis R. Keeney. 1977. "Occurrence and Distribution of Arsenic in Soils and Plants". Environmental Health Perspectives, Vol. 19, p. 67-71.

53. Woolson, Edwin A. 1983. "Emmisions, Cycling and Effects of Arsenic in Soil Ecosystems". In: Biological and Environmental Effects of Arsenic. Bruce A. Fowler ed. Elsevier Scientific Publishing Co., New York.

54. Wright, J.R., R. Levick and H.J. Atkinson. 1955. "Trace Element Distribution in Virgin Profiles Representing Four Great Soil Groups". Soil Sci. Soc. Proc., Vol. 19, p. 340-344.

Wyskowski

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

CHEMICAL ANALYSES OF SOILS AND OTHER SURFICIAL MATERIALS OF THE CONTERMINOUS UNITED STATES

By

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This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards or nomenclature

Table 1.--Locations, soil types, and collection [illegible]

Sample No.	State	County	Latitude	Longitude	Date Collected	Site and Soil Descriptions
GC185850	UT	WASATCH	40 35	111 25	65 6	US 40 AT HAILSTONE; BROWN SILT AND CLAY RICH IN ROOT MATERIAL
GC045250	UT	WASHINGTON	37 0	113 54	67 2	US 91 AT UTAH-ARIZ LINE; ORANGE-BROWN STONY DESERT
GC045350	UT	WASHINGTON	37 19	113 15	67 2	I-15 AT RT 15 JCT; ORANGE-BROWN, ON LATITIC VOLCANICS
GC014850	UT	WAYNE	38 25	110 40	62 8	RT 24 IN MUDDY R. FLOOD PLAIN, 1 MI N HANKSVILLE; ALLUVIUM
GC014950	UT	WAYNE	38 18	111 24	62 8	RT 24 2 MI E TORREY; WEATHERED SURFACE ROCK
GC033050	VA	AUGUSTA	38 12	79 7	72 9	US 250 4 MI W STAUNTON; REDDISH-BROWN CLAY ON LIMESTONE
GC061850	VA	CAMPBELL	37 4	78 55	70 10	US 501 2 MI N JCT RT 40; SOIL NOT DESCRIBED
GC210250	VA	CHESTERFIELD	37 32	77 37	65 7	US 60 5 MI E MIDLOTHIAN; SOIL NOT DESCRIBED
GC022550	VA	CRAIG	37 51	80 32	72 9	US 60 .5 MI S ALTA; YELLOW SANDY SOIL
GC210050	VA	FAIRFAX	38 40	77 10	65 7	US 1 1.2 MI S JCT RT 241 IN ALEXANDRIA; SOIL NOT DESCRIBED
GC006350	VA	FAUQUIER	39 0	77 55	62 10	US 50 1.5 MI W UPPERVILLE; YELLOW-ORANGE SUBSOIL
GC061750	VA	FLUVANNA	37 46	78 12	70 10	RT 6 2.5 MI E JCT US 15; SOIL NOT DESCRIBED
GC022450	VA	HIGHLAND	38 24	79 36	72 9	US 220 3 MI S MONTEREY; BROWN SANDY SOIL
GC210450	VA	MECKLENBURG	36 35	78 35	65 7	US 15 AND US 58 FORKS IN CLARKSVILLE; SOIL NOT DESCRIBED
GC080150	VA	NOTTOWAY	37 12	78 12	73 10	NE CORNER BURKEVILLE QUARRY; RESIDUAL SOIL ON GRANITIC ROCK
GC210350	VA	NOTTOWAY	37 3	77 13	65 7	RT 360 ABOUT 1 MI W US 360-460 FORK; B HORIZON SOIL
GC061650	VA	RAPPAHANNOCK	38 42	78 12	70 10	US 522 2.6 MI NE JCT US 211; SOIL NOT DESCRIBED
GC061950	VA	ROANOKE	37 20	80 8	70 10	US 311 3 MI W CATAWBA; SOIL NOT DESCRIBED
GC022850	VA	SMYTH	36 45	81 39	72 9	RT 762 AT ST. CLARE BOTTOM; GRAY TO BROWN CLAY
GC210150	VA	SPOTSYLVANIA	38 17	77 29	65 7	US 1 .5 MI S JCT WITH VA 3-20; SOIL NOT DESCRIBED
GC022750	VA	WYTHE	36 58	80 57	72 9	RT 121 AT MAX MEADOWS; MUCK
GC040050	VT	CALEDONIA	44 55	72 5	66 10	US 2 3 MI W ST JOHNSBURY; SILTY LOAM, OLIVE BROWN
GC040150	VT	LAMOILLE	44 35	72 50	66 10	RT 104 .5 MI W CAMBRIDGE; OLIVE-BROWN SILTY LOAM
GC040950	VT	RUTLAND	43 35	72 55	66 10	US 4 1.3 MI E MENDON; OLIVE-GRAY SILTY CLAY LOAM
GC059450	WA	ADAMS	46 45	118 12	70 10	RT 26 5 MI E WASHTUCNA; GRAY SILT OVER BASALT
GC036250	WA	CHELAN	47 45	121 5	65 8	US 2 KING-CHELAN CO LINE; MIXED A-B ZONE IN POOR PODZOLIC PROFILE
GC036350	WA	CHELAN	47 30	120 25	65 8	US 97 2 MI SE CASHMERE; GRAY SILT FROM NONMARINE CLASTIC SEDIMENTS
GC036450	WA	CHELAN	47 54	119 56	65 8	US 97 8 MI N CHELAN FALLS; MED GRAY SILT ON GRANITE
GC035750	WA	COWLITZ	45 56	122 45	65 8	US 830 1 MI N WOODLAND; ORANGE-BROWN SAND
GC076450	WA	COWLITZ	46 17	122 54	73 9	I-5 AT CASTLE ROCK EXIT; CLAY OVER GLACIAL BOULDERS
GC036750	WA	DOUGLAS	47 56	119 20	65 10	RT 10A 2 MI NE LEAHY; GRAY SILT ON BASALT
GC060950	WA	GRANT	46 47	119 26	70 10	RT 26 3 MI E RAPID CITY; GRAY DESERT SANDY OVER BASALT
GC060850	WA	KITTITAS	46 50	120 35	70 10	US 97 4 MI S INTERSTATE EXIT AT ELLENSBURY; TAN LITHOSOL OVER VOLCANICS
GC076250	WA	LEWIS	46 39	121 24	73 9	US 12 AT WHITE PASS; MOR HUMUS, VOLCANIC ASH, & RESIDUAL SOIL
GC076350	WA	LEWIS	46 33	122 18	73 9	US 12 2 MI W MORTON; FOREST LOAM UNDER MOR HUMUS
GC036850	WA	LINCOLN	47 45	118 42	65 10	US 2 1 MI E WILBUR; GRAY SILT ON BASALT
GC036550	WA	OKANOGAN	48 22	120 11	65 8	OFF RT 16 2.5 MI W TWISP; B HORIZON
GC036650	WA	OKANOGAN	48 59	119 42	65 10	CO RD 10 MI NW OROVILLE; BROWNISH-GRAY COLLUVIAL
GC035950	WA	PACIFIC	46 38	123 55	65 8	US 101 9 MI SW SOUTH BEND; B HORIZON ON MARINE SEDIMENTS
GC076150	WA	PIERCE	46 54	121 30	73 9	RT 410 AT CHINOOK PASS; MULL LITHOSOL
GC036150	WA	SNOHOMISH	47 52	121 55	65 8	US 2 3 MI E MONROE; ORANGE-BROWN B HORIZON ON GLACIAL DRIFT
GC036950	WA	SPOKANE	47 38	117 42	65 10	US 2 11 MI W SPOKANE; MED BROWN SILTY SAND ON GLACIAL OUTWASH
GC036050	WA	THURSTON	47 3	122 49	65 8	US 410 3 MI E OLYMPIA; SANDY B HORIZON
GC035850	WA	WAHKIAKUM	46 14	123 22	65 8	US 830 2 MI N CATHLAMET; OLIVE-BROWN CLAY LOAM
GC027050	WA	WHATCOM	48 48	122 22	71 9	5.4 MI NE JCT RT 542 & I-5; LOAM ON GLACIAL TILL
GC060750	WA	YAKIMA	46 21	120 17	70 10	US 97 2 MI S TOPPENISH; GRAY LITHOSOL OVER BASALT
GC048651	WI	ADAMS	43 40	89 47	61 7	RT 13 3 MI N WISCONSIN DELLS; ORANGE SAND
GC246850	WI	ASHLAND	46 35	90 55	66 8	US 2 1 MI W ASHLAND; SOIL NOT DESCRIBED
GC056250	WI	BARRON	45 16	91 41	70 5	US 53 2 MI S CHETEK; BROWN CLAY LOAM
GC048151	WI	BUFFALO	44 26	91 17	61 7	RT 121 2 MI W BUFFALO-TREMPEALEAU CO LINE IN WOODS; REDDISH

e 1.--Location, description, and concentration (ments for samples of surficial materials--conti(

Sample No.	Al %	As ppm	B ppm	Ba ppm	Be ppm	Br ppm	C %	Ca %	Ce ppm	Co ppm	Cr ppm	Cu ppm
GC185850	7.00	4.1	N	1,500	1.5	--	--	2.00	150	15	30.0	30.0
GC045250	1.50	5.4	N	150	N	--	--	24.00	N	3	30.0	7.0
GC045350	7.00	7.6	<20	500	2.0	--	--	2.60	N	15	70.0	30.0
GC014850	7.00	--	50	500	N	--	--	5.60	--	7	70.0	30.0
GC014950	3.00	--	50	500	N	--	--	3.80	--	7	30.0	20.0
GC033050	10.00	18.4	30	500	2.0	1.9	3.5	.64	<150	20	70.0	70.0
GC061850	5.00	2.3	20	500	N	--	--	.02	N	N	7.0	7.0
GC210250	1.50	4.7	20	200	N	--	--	.52	N	N	30.0	15.0
GC022550	3.00	4.3	50	200	N	.6	2.9	--	N	<3	30.0	10.0
GC210050	5.00	5.9	50	500	N	--	--	.50	N	7	50.0	20.0
GC006350	7.00	4.2	N	200	N	--	--	1.20	N	30	50.0	100.0
GC061750	7.00	1.0	30	500	1.0	--	--	.85	150	5	7.0	7.0
GC022450	.70	3.5	20	100	N	<.5	1.3	.09	N	3	7.0	5.0
GC210450	7.00	5.7	N	500	N	--	--	1.20	N	30	70.0	30.0
GC080150	>10.00	.7	N	1,500	2.0	<.5	.3	.67	<150	<3	10.0	10.0
GC210350	>10.00	3.6	N	200	N	--	--	1.60	N	15	300.0	100.0
GC061650	7.00	6.9	20	500	N	--	--	.16	150	7	30.0	20.0
GC061950	1.50	3.2	30	70	N	--	--	.01	N	N	7.0	7.0
GC022850	7.00	5.2	20	700	2.0	1.7	4.8	.65	<150	15	50.0	20.0
GC210150	>10.00	3.4	20	500	N	--	--	.45	N	5	100.0	30.0
GC022750	5.00	7.9	70	300	2.0	--	19.3	2.32	--	7	50.0	70.0
GC040050	3.00	2.4	150	200	1.5	--	--	.80	N	10	70.0	20.0
GC040150	7.00	5.9	70	300	1.5	--	--	.60	N	10	100.0	20.0
GC040950	7.00	2.5	50	500	2.0	--	--	.50	150	15	30.0	15.0
GC059450	10.00	3.5	<20	1,000	1.0	--	--	2.06	<150	15	30.0	20.0
GC036250	7.00	2.5	N	300	N	--	--	2.10	N	10	15.0	20.0
GC036350	7.00	5.8	N	500	N	--	--	1.20	N	15	70.0	30.0
GC036450	>10.00	3.0	N	700	N	--	--	2.60	N	15	50.0	30.0
GC035750	7.00	4.3	N	700	N	--	--	1.30	N	15	50.0	15.0
GC076450	10.00	5.7	30	700	N	2.0	2.7	1.00	N	20	70.0	70.0
GC036750	>10.00	2.1	N	700	N	--	--	2.70	N	20	30.0	30.0
GC060950	10.00	6.0	<20	1,000	1.0	--	--	3.08	N	15	30.0	20.0
GC060850	10.00	8.6	N	500	<1.0	--	--	4.60	N	20	100.0	50.0
GC076250	>10.00	.4	N	300	N	--	6.1	3.50	N	7	20.0	15.0
GC076350	10.00	1.5	N	200	N	--	8.5	2.01	N	15	30.0	100.0
GC036850	>10.00	2.5	N	700	N	--	--	2.90	N	30	20.0	30.0
GC036550	>10.00	5.3	N	700	N	--	--	2.40	N	20	100.0	30.0
C036650	>10.00	1.3	N	700	N	--	--	2.20	N	10	150.0	15.0
C035950	>10.00	7.4	N	500	N	--	--	.20	N	10	100.0	50.0
C076150	10.00	.6	N	300	N	<.5	6.5	3.54	N	10	30.0	15.0
C036150	7.00	8.5	N	500	N	--	--	1.60	N	15	150.0	30.0
C036950	>10.00	8.5	70	700	N	--	--	.70	N	10	50.0	20.0
C036050	>10.00	5.2	N	500	N	--	--	1.40	N	20	100.0	30.0
C035850	>10.00	6.8	N	500	N	--	--	1.80	N	30	70.0	70.0
C027050	>10.00	3.4	<20	500	N	2.9	2.7	1.45	N	10	150.0	50.0
C060750	10.00	6.2	<20	700	1.5	--	--	2.95	<150	15	50.0	50.0
C048651	--	1.6	<20	200	--	--	--	.30	--	--	15.0	--
C246850	2.00	2.8	N	300	N	--	--	.42	N	N	7.0	3.0
C056250	7.00	3.8	50	500	<1.0	--	1.1	.30	N	7	30.0	20.0
C048151	--	8.8	30	700	--	--	--	.40	--	10	50.0	7.0

1.--Locations, descriptions, and concentration of ents for samples of surficial materials--continu

ample No.	F %	Fe %	Ga ppm	Ge ppm	Hg ppm	I ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
C185850	.076	5.00	30	--	.11	--	2.52	150	23	1.500	700	N
C045250	.024	.70	7	--	.02	--	.85	N	9	5.000	150	N
C045350	.068	3.00	30	--	.06	--	2.60	70	25	1.000	500	5
C014850	--	2.00	20	--	--	--	1.90	N	--	1.500	200	N
C014950	--	1.50	15	--	--	--	2.20	N	--	1.500	500	N
C033050	.070	5.00	15	1.02	.04	1.6	2.99	70	37	.500	700	7
C061850	.012	1.00	5	--	.03	--	1.59	N	11	.030	150	N
C210250	.004	1.50	5	--	.57	--	.75	N	10	.070	150	N
C022550	--	.70	7	1.58	.04	.6	.88	<30	25	.100	100	N
C210050	.016	3.00	7	--	.07	--	.95	30	25	.200	300	N
C006350	.007	3.00	20	--	.19	--	.80	N	20	.700	1,000	N
C061750	.005	1.50	7	--	.10	--	.47	100	6	.150	1,000	N
C022450	--	.70	N	1.34	.03	.9	.35	N	10	.070	70	N
C210450	.022	5.00	15	--	.15	--	.75	N	10	.500	1,000	N
C080150	--	1.50	20	1.00	.01	1.0	3.59	50	10	.200	150	N
C210350	.001	7.00	20	--	.13	--	.32	N	20	.500	150	N
C061650	.015	2.00	15	--	.04	--	1.39	70	17	.020	700	N
C061950	.004	1.00	N	--	.04	--	.27	30	18	.030	20	N
C022850	.070	1.50	15	.95	.06	3.4	2.93	50	100	.500	1,000	N
C210150	.039	7.00	30	--	.15	--	1.20	70	12	.300	70	N
C022750	.060	3.00	15	1.07	.08	--	1.72	50	75	1.500	500	10
C040050	.045	3.00	30	--	.11	--	.75	N	34	1.500	1,000	N
C040150	.063	3.00	30	--	.43	--	1.50	30	26	.700	700	N
C040950	.048	3.00	30	--	.05	--	2.80	50	34	1.000	700	N
C059450	.031	5.00	15	--	.01	--	1.56	50	25	1.500	500	N
C036250	.006	3.00	30	--	1.20	--	1.10	N	18	.500	300	N
C036350	.021	3.00	30	--	.04	--	1.60	30	29	.700	300	N
C036450	.019	3.00	30	--	.04	--	1.60	N	23	1.000	700	N
C035750	.038	2.00	20	--	.02	--	2.00	N	14	.700	500	N
C076450	--	5.00	15	1.60	.03	.9	1.42	N	20	.700	500	N
C036750	.029	7.00	20	--	.02	--	1.40	N	19	1.000	1,000	N
C060950	.020	7.00	15	--	.02	--	1.48	30	18	1.500	1,000	N
C060850	.030	10.00	20	--	.04	--	.76	30	13	2.000	1,500	3
C076250	--	2.00	20	.78	.02	--	.91	N	15	1.000	300	N
C076350	--	5.00	20	.68	.07	--	.78	N	15	1.000	1,000	N
C036850	.036	7.00	30	--	.04	--	1.10	N	19	1.000	1,500	N
C036550	.013	3.00	30	--	.04	--	1.20	N	25	1.500	700	N
C036650	.036	5.00	20	--	.03	--	2.30	N	29	.700	1,000	N
C035950	.049	3.00	50	--	1.20	--	1.00	30	29	.500	300	N
C076150	--	5.00	20	.72	.04	<.5	.85	N	15	1.500	700	N
C036150	.012	3.00	30	--	.36	--	.90	N	21	.500	700	N
C036950	.052	5.00	15	--	.02	--	2.60	N	33	.700	700	N
C036050	.045	3.00	30	--	.06	--	1.10	N	22	1.500	700	N
C035850	.013	5.00	50	--	.09	--	1.30	50	31	1.000	700	5
C027050	--	3.00	30	1.43	.05	2.4	.95	N	30	2.000	300	N
C060750	.013	5.00	20	--	.02	-4	1.47	50	21	1.500	700	N
D48651	.014	.50	<5	--	.05	--	.70	--	7	.070	150	--
246850	<.001	1.00	<5	--	.06	--	.79	N	<5	.300	150	N
D56250	.023	2.00	15	--	.06	<.5	1.50	30	19	.300	300	N
D48151	.024	2.00	5	--	.14	--	3.50	--	14	.300	200	--

e 1.--Location, description, and concentration o ents for samples of surficial materials--contin

Sample No.	Na %	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Rb ppm	S %	Sb ppm	Sc ppm	Se ppm	Si %
GC185850	1.50	15	100	15	.157	30	--	--	--	15	.4	--
GC045250	.70	N	--	7	.030	10	--	--	--	N	.3	--
GC045350	2.00	15	70	30	.080	30	--	--	--	15	.2	--
GC014850	1.50	15	N	20	.060	30	--	--	--	7	--	--
GC014950	.70	15	N	15	.016	15	--	--	--	7	--	--
GC033050	.20	10	70	30	--	50	85	.13	1	10	.2	32
GC061850	.07	10	N	N	--	<10	--	--	--	N	.2	--
GC210250	.10	10	--	N	.030	30	--	--	--	N	.3	--
GC022550	.10	<10	N	<5	--	15	60	<.08	1	<5	.2	36
GC210050	.30	15	N	20	.016	15	--	--	--	10	.2	--
GC006350	.70	N	N	20	.060	15	--	--	--	10	.7	--
GC061750	1.00	<10	70	<5	--	<10	--	--	--	7	.4	--
GC022450	N	N	--	7	--	N	20	.12	1	N	<.1	40
GC210450	1.00	N	--	20	.016	20	--	--	--	10	.5	--
GC080150	2.00	10	N	<5	--	20	165	<.08	<1	5	<.1	32
GC210350	.70	N	--	100	.008	N	--	--	--	30	.7	--
GC061650	.30	15	70	7	--	20	--	--	--	7	.4	--
GC061950	N	10	N	N	--	N	--	--	--	N	.4	--
GC022850	.30	<10	N	10	--	30	80	<.08	<1	5	.4	30
GC210150	.10	10	N	15	.016	30	--	--	--	15	2.0	--
GC022750	.50	<10	N	15	--	300	90	<.08	2	5	.1	22
GC040050	.70	15	--	30	.030	20	--	--	--	7	.3	--
GC040150	1.00	15	70	30	.060	20	--	--	--	10	.5	--
GC040950	.70	15	70	15	.040	20	--	--	--	15	.4	--
GC059450	2.00	10	70	15	--	10	--	--	--	20	.3	--
GC036250	3.00	N	N	10	.024	15	--	--	--	7	.3	--
GC036350	1.50	20	N	50	.024	20	--	--	--	10	.2	--
GC036450	3.00	N	N	20	.024	20	--	--	--	10	<.1	--
GC035750	1.50	15	N	20	.024	20	--	--	--	10	<.1	--
GC076450	1.00	<10	--	20	--	30	65	<.08	1	15	<.1	28
GC036750	2.00	N	--	20	.044	N	--	--	--	20	.1	--
GC060950	1.50	10	N	15	--	10	--	--	--	20	.2	--
GC060850	2.00	<10	N	30	--	10	--	--	--	30	.4	--
GC076250	3.00	<10	--	5	--	N	30	<.08	<1	7	.2	24
GC076350	2.00	<10	--	20	--	10	25	<.08	<1	10	.5	18
GC036850	2.00	N	--	15	.060	N	--	--	--	30	<.1	--
GC036550	3.00	N	N	50	.030	15	--	--	--	15	.1	--
GC036650	3.00	N	--	10	.030	N	--	--	--	7	<.1	--
GC035950	1.00	20	N	20	.030	20	--	--	--	15	1.5	--
GC076150	2.00	N	--	10	--	N	<20	<.08	<1	10	<.1	24
GC036150	2.00	15	N	30	.044	30	--	--	--	10	.6	--
GC036950	1.50	N	--	20	.024	N	--	--	--	10	.2	--
GC036050	2.00	15	N	50	.030	20	--	--	--	15	.2	--
GC035850	1.50	30	N	50	.060	15	--	--	--	20	.9	--
GC027050	2.00	N	--	30	--	10	30	<.08	<1	10	.5	27
GC060750	2.00	10	N	20	--	15	--	--	--	15	<.1	--
GC048651	--	--	--	5	.015	<10	--	--	--	--	<.1	--
GC246850	.50	N	--	7	.026	10	--	--	--	N	.2	--
GC056250	--	<10	N	15	.262	15	--	--	--	7	.4	37
GC048151	--	--	--	15	.020	<10	--	--	--	10	.3	--

Table 1.--Locations, descriptions, and concentrations of elements for samples of surficial materials--Continued

Sample No.	Sn ppm	Sr ppm	Ti %	Th ppm	U ppm	V ppm	Y ppm	Yb ppm	Zn %	Zr ppm
GC185850	--	300	.300	--	--	100	30	3.0	92	200
GC045250	--	150	.070	--	--	30	15	1.5	50	70
GC045350	--	700	.500	--	--	150	50	5.0	65	150
GC014850	--	300	.150	--	--	100	20	3.0	40	100
GC014950	--	200	.150	--	--	50	20	3.0	30	150
GC033050	1.77	150	.300	9.95	4.99	150	30	3.0	98	150
GC061850	--	15	.500	--	--	15	10	1.5	15	300
GC210250	--	15	.300	--	--	30	15	1.5	25	700
GC022550	2.86	30	.300	7.06	4.30	30	20	3.0	30	200
GC210050	--	50	.500	--	--	100	30	3.0	60	500
GC006350	--	100	.500	--	--	100	15	2.0	85	100
GC061750	--	150	.300	--	--	20	15	2.0	27	200
GC022450	.76	10	.200	5.12	1.92	10	10	1.0	43	500
GC210450	--	500	.500	--	--	150	15	2.0	25	500
GC080150	1.31	300	.200	10.74	3.17	50	10	1.0	40	200
GC210350	--	150	.300	--	--	200	N	1.5	35	100
GC061650	--	50	1.000	--	--	70	20	3.0	72	500
GC061950	--	7	.500	--	--	15	15	2.0	13	300
GC022850	.47	70	.200	--	3.49	70	20	3.0	55	100
GC210150	--	200	.500	--	--	150	15	2.0	--	200
GC022750	5.96	150	.150	6.65	4.40	70	20	3.0	2,890	70
GC040050	--	150	.150	--	--	70	20	3.0	50	150
GC040150	--	150	.200	--	--	70	30	5.0	50	200
GC040950	--	150	.500	--	--	70	50	5.0	30	200
GC059450	--	500	.700	--	--	150	30	3.0	86	150
GC036250	--	500	.300	--	--	70	10	1.5	--	70
GC036350	--	500	.300	--	--	100	20	3.0	60	150
GC036450	--	1,000	.300	--	--	150	20	3.0	30	100
GC035750	--	700	.300	--	--	70	20	2.0	35	150
GC076450	1.81	200	.500	8.52	2.64	150	10	1.5	73	200
GC036750	--	1,000	1.000	--	--	200	30	3.0	40	150
GC060950	--	500	.700	--	--	150	70	7.0	82	150
GC060850	--	500	.700	--	--	200	20	3.0	108	100
GC076250	.64	500	.300	--	1.08	100	10	1.5	62	70
GC076350	.38	200	.500	3.44	1.47	150	10	1.5	73	100
GC036850	--	500	1.000	--	--	300	30	3.0	70	150
GC036550	--	700	.500	--	--	150	30	3.0	65	100
GC036650	--	1,000	.300	--	--	100	15	1.5	55	70
GC035950	--	100	.500	--	--	150	20	3.0	60	100
GC076150	.79	500	.300	--	.96	100	10	1.0	69	100
GC036150	--	200	.300	--	--	100	15	2.0	55	70
GC036950	--	300	.500	--	--	100	30	5.0	55	200
GC036050	--	300	.300	--	--	100	15	2.0	45	100
GC035850	--	700	.700	--	--	150	30	3.0	85	100
GC027050	.82	200	.300	9.81	1.93	200	20	3.0	131	70
GC060750	--	500	.700	--	--	150	30	3.0	97	150
GC048651	--	50	.100	--	--	20	<10	--	25	200
GC246850	--	30	.070	--	--	10	N	N	20	70
GC056250	--	100	.300	--	--	70	15	2.0	75	150
GC048151	--	150	.200	--	--	20	15	--	50	200

Appendix 19

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 20°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-1/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	14.0	ft.
Depth of Water *	11.19	ft.
Length of Water Column	2.81	ft.
Volume of Water in Well	0.45	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	6	5	6	No	6	Yes					
pH	8.0	7.8	7.8	Yes	7.7	Yes					
Conductivity (µS)	200	190	210	Yes	200	Yes					
Turbidity (NTU's)	>100	>100	>100	Yes	>100	Yes					

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	Dark Milky Brown
Initial bottom bail:	None	No	Low	Dark Milky Brown
During Development:	None	No	Low	Dark Milky Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 34°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-7/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,A.Crabb	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	17.0	ft.
Depth of Water *	11.8	ft.
Length of Water Column	5.2	ft.
Volume of Water in Well	0.85	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	7	6	6	Yes							
pH	7.0	6.9	7.0	Yes							
Conductivity (µS)	580	600	600	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Moderate	None/Cloudy
Initial bottom bail:	None	No	Low	Dark Brown
During Development:	None	No	Low	Dark Brown

Did well go dry? No Volumes removed before well went dry: 3 gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/24/93	Weather	Snow
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-8/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,E.Rahn	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	27.53	ft.
Depth of Water *	22.95	ft.
Length of Water Column	9.58	ft.
Volume of Water In Well	0.75	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/24/93 Personnel: P.Gottler

Temperature		
Standard		°C
Thermometer		°C

pH		
10.0 Standard =	10.0	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	0.75 1	1.5 2	2.25 3	within 10% 2nd volume	3.0 4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°F)	44	44	43	Yes							
pH	8.3	8.2	8.2	Yes							
Conductivity (µS)	130	130	130	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No		
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Low	Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Clear 45°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,A.Crabb	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	12.55	ft.
Depth of Water *	6.61	ft.
Length of Water Column	5.94	ft.
Volume of Water in Well	0.96	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	4	4	4	No	4	Yes					
pH	7.9	8.2	7.8	No	7.6	Yes					
Conductivity (µS)	230	200	200	No	180	Yes					
Turbidity (NTU's)	>100	>100	>100	No	>100	Yes					

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	None
Initial bottom bail:	None	No	High	Dark Brown
During Development:	None	No	High	Dark Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 30°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-11/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,E.Rahn	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	10.0	ft.
Depth of Water *	4.5	ft.
Length of Water Column	5.5	ft.
Volume of Water in Well	0.9	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	4	4	4	Yes							
pH	6.7	6.6	6.5	Yes							
Conductivity (µS)	590	590	590	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	Slight Landfill/Leachate	No	High	None
Initial bottom bail:	Slight Landfill/Leachate	No	Low	Dark Brown
During Development:	Slight Landfill/Leachate	No	Low	Dark Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 30°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-12/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,A.Crabb,D.Farber	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	8.95	ft.
Depth of Water *	2.25	ft.
Length of Water Column	6.70	ft.
Volume of Water in Well	1.09	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	5	6	6	Yes							
pH	8.0	8.1	8.2	Yes							
Conductivity (µS)	170	140	150	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Moderate	None/Cloudy
Initial bottom bail:	None	No	Low	Dark Brown
During Development:	None	No	Low	Dark Brown

Did well go dry? Yes Volumes removed before well went dry: 2 gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 36°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-22/S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,A.Crabb	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	11.43	ft.
Depth of Water *	3.30	ft.
Length of Water Column	8.13	ft.
Volume of Water in Well	1.33	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	5	4	4	Yes							
pH	7.2	7.2	7.3	Yes							
Conductivity (µS)	420	420	420	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Low	Dark Brown
During Development:	None	No	Low	Dark Brown

Did well go dry? No — Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/24/93	Weather	Snow
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-25-S1
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,E.Rahn	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	12.15	ft.
Depth of Water *	6.57	ft.
Length of Water Column	5.58	ft.
Volume of Water in Well	0.9	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/24/93 Personnel: M.Petrie

Temperature		
Standard	62	°F
Thermometer	62	°F

pH		
10.0 Standard =	10.0	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°F)	38	39	39	Yes	39	Yes					
pH	7.5	7.1	6.8	Yes	6.7	Yes					
Conductivity (µS)	70	70	90	No	90	Yes					
Turbidity (NTU's)	>100	>100	>100	Yes	100	Yes					

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Low	Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	5/13/93	Weather	Clear
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-03T
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Randazzo	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	28.5	ft.
Depth of Water *	0.76	ft.
Length of Water Column	27.74	ft.
Volume of Water in Well	4.5	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/12/93 Personnel: MJ Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	10	8	8	Yes							
pH	7.5	7.3	7.4	Yes							
Conductivity (µS)	240	210	200	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Moderate	None
During Development:	None	No	Moderate	None

Did well go dry? No — Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	3/23/93	Weather	Clear 45°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-23-T
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,A.Crabb	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	10.02	ft.
Depth of Water *	2.41	ft.
Length of Water Column	7.61	ft.
Volume of Water in Well	1.25	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	5	5	5	Yes							
pH	8.3	8.2	7.9	Yes							
Conductivity (µS)	130	140	140	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	None
Initial bottom bail:	None	No	High	Dark Brown
During Development:	None	No	High	Dark Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Clear 45°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-24-T
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	A.Crabb	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	16.46	ft.
Depth of Water *	2.98	ft.
Length of Water Column	13.48	ft.
Volume of Water in Well	2.2	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	4	5	5	Yes							
pH	8.0	7.8	7.8	Yes							
Conductivity (µS)	240	240	230	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	None
Initial bottom bail:	None	No	High	Dark Brown
During Development:	None	No	High	Dark Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 25°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-10
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,A.Crabb	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	17.81	ft.
Depth of Water *	16.0	ft.
Length of Water Column	1.81	ft.
Volume of Water in Well	.29	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/23/93 Personnel: A.Crabb,P.Gottler

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	9	7	7	Yes							
pH	6.7	6.8	6.7	Yes							
Conductivity (µS)	280	280	310	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High to Moderate	None/Cloudy
Initial bottom bail:	None	No	Low	Dark Brown
During Development:	None	No	Low	Dark Brown

Did well go dry? Yes — Volumes removed before well went dry: 0.5 gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/23/93	Weather	Sunny 20°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-15
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Randazzo	Method	
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: _____ Personnel: _____

Temperature
Standard _____ °C
Thermometer _____ °C

pH
10.0 Standard = _____ meter
7.0 Standard = _____ meter
4.01 Standard = _____ meter

Turbidity
77.5 NTU Standard = _____ meter
8.5 NTU Standard = _____ meter
0.2 NTU Standard = _____ meter

Conductivity
84 µS Standard = _____ meter
1,413 µS Standard = _____ meter

Are meters within acceptable calibration range? _____

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)											
pH											
Conductivity (µS)											
Turbidity (NTU's)											

	Odor	Visible Sheen	Clarity	Color
Initial top bail:				
Initial bottom bail:				
During Development:				

Did well go dry? _____ Volumes removed before well went dry: _____ gal(s)

NOTES: Well is dry.

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	3/23/93	Weather	Sunny 20°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-20
Site Location	Woodford and Bennington, Vermont	Project #	5271.001
Personnel	M.Randazzo	Method	
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.46 X LWC

Calibration of Standards

Date: _____ Personnel: _____

Temperature
Standard _____ °C
Thermometer _____ °C

pH
10.0 Standard = _____ meter
7.0 Standard = _____ meter
4.01 Standard = _____ meter

Turbidity
77.5 NTU Standard = _____ meter
8.5 NTU Standard = _____ meter
0.2 NTU Standard = _____ meter

Conductivity
84 µS Standard = _____ meter
1,413 µS Standard = _____ meter

Are meters within acceptable calibration range? _____

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)											
pH											
Conductivity (µS)											
Turbidity (NTU's)											

	Odor	Visible Sheen	Clarity	Color
Initial top bail:				
Initial bottom bail:				
During Development:				

Did well go dry? _____ Volumes removed before well went dry: _____ gal(s)

NOTES: Well is dry.

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	3/24/93	Weather	Snow
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-21
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	P.Loretto,D.Farber,E.Rahn	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	20.6	ft.
Depth of Water *	17.82	ft.
Length of Water Column	2.78	ft.
Volume of Water in Well	0.50	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 3/24/93 Personnel: P.Gottler

Temperature		
Standard		°F
Thermometer		°F

pH		
10.0 Standard =	10.0	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.2	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1420	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	.50 1	1.0 2	1.5 3	within 10% 2nd volume	2.0 4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°F)	59	60	60	Yes							
pH	7.0	7.0	7.0	Yes							
Conductivity (µS)	430	440	430	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Low	Brown

Did well go dry? Yes Volumes removed before well went dry: _____ gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/13/93	Weather	Clear
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-03T (W-03-S2)
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Randazzo	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	28.5	ft.
Depth of Water *	0.76	ft.
Length of Water Column	27.74	ft.
Volume of Water In Well	4.5	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/12/93 Personnel: MJ Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	10	8	8	Yes							
pH	7.5	7.3	7.4	Yes							
Conductivity (µS)	240	210	200	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Moderate	None
During Development:	None	No	Moderate	None

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/14/93	Weather	Clear 60°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04SI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie	Method	Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	110	ft.	(111.5 from top of PVC)
Depth of Water *	7.2	ft.	
Length of Water Column	104.3	ft.	
Volume of Water in Well	17	gal.(s)	

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/14/93 Personnel: MJ Petrie

Temperature		
Standard	19	°C
Thermometer	19	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1 *	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	11	12	13	Yes							
pH	9.8	9.0	8.8	Yes							
Conductivity (µS)	80	90	90	Yes							
Turbidity (NTU's)	97	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Moderate	Light Gray
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Moderate	Brown

Did well go dry? No — Volumes removed before well went dry: NA gal(s)

NOTES: * 5/14 Bailed

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	5/12/93	Weather	Clear
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04DI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie	Method	Pump
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	155	ft. (156.4 ft. from PVC)	
Depth of Water *	2.70	ft.	
Length of Water Column	153.7	ft.	
Volume of Water In Well	25.1	gal.(s)	

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards

Date: 5/12/93 Personnel: MJ Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1*	2**	3***	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	13	11	10	Yes	11	Yes					
pH	11.3	11.3	8.1	No	8.2	Yes					
Conductivity (µS)	480	450	110	No	120	Yes					
Turbidity (NTU's)	>100	>100	>100	Yes	>100	Yes					

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	Light Brown
Initial bottom bail:	None	No	Moderate	Brown
During Development:	None	No	Moderate	Light Brown

Did well go dry? Yes Volumes removed before well went dry: _____ gal(s)

NOTES:
* 5/13 - Pumped 23 gal.,Bailed 2.1 gal.
** 5/14 - Pumped 17 gal., Bailed 8.1 gal.
*** 5/18
Flow Rate 2 GPM

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/10/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-07SI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie,M.Randazzo	Method	Pump
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	119	ft.
Depth of Water *	53.6	ft.
Length of Water Column	65.4	ft.
Volume of Water in Well	10.7	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/10/93 Personnel: M.Randazzo,MJ Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.8	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.30	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1*	2**	3***	within 10% 2nd volume	4****	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	14	22	10	No	10	Yes	10	Yes			
pH	9.7	8.0	9.6	No	8.6	No	8.0	Yes			
Conductivity (µS)	160	170	150	Yes	130	No	140	Yes			
Turbidity (NTU's)	10	>100	0.3	No	4	No	8.0	No			

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	Brown
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Low	Brown

Did well go dry? Yes — Volumes removed before well went dry: 7 gal(s)

NOTES:

* 5/10 Pumped
** 5/10 Bailed
*** 5/11 Bailed
**** 5/12 Bailed
Flow Rate 1.8 GPM; 17 gal. removed prior to going dry on 5/10/93

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	4/8/93	Weather	Sunny/ 60°
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-07 DI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	C. Rook	Method	Pump/Bailer
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	~ 238 ft. (riser) / 236 ft. (b.g.)	
Depth of Water *	33.98 ft. (riser)	
Length of Water Column	202 ft.	
Volume of Water in Well	33 gal.(s)	

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards — Date: 4/8/93 — Personnel: C. Rook

Temperature			pH		
Standard	17	°C	10.0 Standard =	10.0	meter
Thermometer	17	°C	7.0 Standard =	7.0	meter
			4.01 Standard =	3.9	meter

Turbidity			Conductivity		
77.5 NTU Standard =	73	meter	84 µS Standard =	90	meter
8.5 NTU Standard =	8.5	meter	1,413 µS Standard =	1400	meter
0.2 NTU Standard =	0.22	meter			

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	18			Yes							
pH	7.8			Yes							
Conductivity (µS)	390			Yes							
Turbidity (NTU's)	47			Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No		
Initial bottom bail:	None			
During Development:	None			

Did well go dry? Yes — Volumes removed before well went dry: 43 gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/06/93,5/07/93,5/10/93	Weather	Clear
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-08SI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	S.Listzwan,M.Petrie	Method	Pump
		Datum Used	Grade

Depth of Well *	130	ft.
Depth of Water *	35.2	ft.
Length of Water Column	94.8	ft.
Volume of Water in Well	15.45	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diamete Well = 1.469 X LWC

Calibration of Standards Date: 5/07/93 Personnel: SM Listzwan

Temperature		
Standard	17	°C
Thermometer	17	°C

pH		
10.0 Standard =	10	meter
7.0 Standard =	7.1	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	77.3	meter
8.5 NTU Standard =	8.4	meter
0.2 NTU Standard =	0.2	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	5/7 1	5/10 2	5/11 3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	12	16	12	No							
pH	10.2	12.4	12.8	Yes							
Conductivity (µS)	140	>1000	>1000	Yes							
Turbidity (NTU's)	88	7	6	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	
Initial bottom bail:	None	No	Low	
During Development:	None	No	Low	

Did well go dry? Yes — Volumes removed before well went dry: 21 gal(s)

NOTES: Flow Rate 1.5 GPM on 5/10/93

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	5/13/93	Weather	Clear 70°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09SI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie	Method	Pump
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	110	ft.
Depth of Water *	5.98	ft.
Length of Water Column	104	ft.
Volume of Water in Well	17	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards

Date: 5/13/93 Personnel: M.Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.7	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	10	11	12	Yes							
pH	9.2	8.3	8.3	Yes							
Conductivity (µS)	70	100	110	Yes							
Turbidity (NTU's)	28	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Moderate	Light Brown

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES: Flow Rate - 2.5 GPM

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/12/93	Weather	Clear 80°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-25SI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie	Method	See Below
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	128.7	ft.
Depth of Water *	14.2	ft.
Length of Water Column	114.5	ft.
Volume of Water in Well	18.7	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/12/93 Personnel: M.Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1*	2**	3***	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	14	12	11	Yes							
pH	10.5	11.4	11.5	Yes							
Conductivity (µS)	590	580	560	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	Low	Brown
During Development:	None	No	Moderate	Light Brown

Did well go dry? Yes — Volumes removed before well went dry: 18.7 gal(s)

NOTES:
* 5/12 Pumped
** 5/12 Bailed
*** 5/13 Bailed

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/12/93	Weather	Clear
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-25-DI
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie	Method	Pump
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	202.9	ft.
Depth of Water *	16.5	ft.
Length of Water Column	186.4	ft.
Volume of Water in Well	30.4	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/12/93 Personnel: M.Petrie

Temperature		
Standard	18	°C
Thermometer	18	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.3	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	141	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	13	12	11	Yes							
pH	11.4	11.0	10.9	Yes							
Conductivity (µS)	380	350	330	Yes							
Turbidity (NTU's)	>100	>100	>100	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Moderate	Light Gray/Green
Initial bottom bail:	None	No	Moderate	Light Gray/Green
During Development:	None	No	Low	None

Did well go dry? Yes — Volumes removed before well went dry: 50 gal(s)

NOTES: Flow Rate - 0.5 GPM-1 GPM

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	4/06/93	Weather	Sunny 50°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-01B
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	C.Rook	Method	Pump
		Datum Used	Top of PVC/Stainless steel riser

Depth of Well *	340 + 2	ft.
Depth of Water *	56.04	ft.
Length of Water Column	286	ft.
Volume of Water in Well	187	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 4/06/93 Personnel: CR,MR

Temperature		
Standard	73	°F
Thermometer	72	°F

pH		
10.0 Standard =	9.8	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.1	meter

Turbidity		
77.5 NTU Standard =	77	meter
8.5 NTU Standard =	8.7	meter
0.2 NTU Standard =	0.43	meter

Conductivity		
84 µS Standard =	90	meter
1,413 µS Standard =	1400	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°F)	52	52	52	Yes	52	Yes	52	Yes	52	Yes	
pH	7.3	7.3	7.0	Yes	7.0	Yes	7.1	Yes	7.2	Yes	
Conductivity (µS)	140	130	130	Yes	150	No	140	Yes	130	Yes	
Turbidity (NTU's)	690	>1000	480	No	340	No	265	No	240	Yes	

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No		None
Initial bottom bail:	None	No		None
During Development:	None	No	High	None/Cloudy

Did well go dry? No — Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Well Development Log

Date	5/11/93	Weather	Clear 80°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04B
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	M.Petrie	Method	Pump
		Datum Used	Grade

Depth of Well *	475	ft.
Depth of Water *	8.1	ft.
Length of Water Column	466.9	ft.
Volume of Water in Well	171.4	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
3" Diameter Well = 1.469 X LWC

Calibration of Standards

Date: 5/11/93 Personnel: MJ Petrie

Temperature		
Standard	19	°C
Thermometer	19	°C

pH		
10.0 Standard =	9.9	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	76.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.30	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	13	13	13	Yes							
pH	8.4	8.2	8.2	Yes							
Conductivity (µS)	100	80	80	Yes							
Turbidity (NTU's)	30	10	9	Yes							

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Moderate	Clear/Green
Initial bottom bail:	None	No	Moderate	Light Gray/Green
During Development:	None	No	Low	Light Gray

Did well go dry? _____ Volumes removed before well went dry: NA gal(s)

NOTES: Flow Rate 3-5 GPM

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	5/06/93	Weather	Overcast 60°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-8B
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	S.Listzwan	Method	Pump
		Datum Used	Top of Inner Casing

Depth of Well *	449	ft.
Depth of Water *	23	ft.
Length of Water Column	426	ft.
Volume of Water in Well	156	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 5/06/93 Personnel: SM Listzwan

Temperature		
Standard	19	°C
Thermometer	19	°C

pH		
10.0 Standard =	10.1	meter
7.0 Standard =	7.0	meter
4.01 Standard =	4.1	meter

Turbidity		
77.5 NTU Standard =	77.5	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	30	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume (48.42)	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°C)	10	10	10	Yes	11	Yes					
pH	7.8	6.8	6.8	Yes	6.9	Yes					
Conductivity (µS)	120	110	110	Yes	110	Yes					
Turbidity (NTU's)	90	35	9.0	No	9.0	Yes					

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	Low	None
Initial bottom bail:	None	No	High	None
During Development:	None	No	High	None

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Well Development Log**

Date	4/07/93	Weather	Sunny 45°F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09B
Site Location	Woodford and Bennington,Vermont	Project #	5271.001
Personnel	C.Rook	Method	Pump
		Datum Used	Grade

Depth of Well *	466	ft.
Depth of Water *	7.6	ft.
Length of Water Column	458	ft.
Volume of Water in Well	157	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Calibration of Standards Date: 4/07/93 Personnel: C.Rook

Temperature		
Standard	62	°F
Thermometer	61	°F

pH		
10.0 Standard =	10.0	meter
7.0 Standard =	6.9	meter
4.01 Standard =	4.0	meter

Turbidity		
77.5 NTU Standard =	75	meter
8.5 NTU Standard =	8.5	meter
0.2 NTU Standard =	0.34	meter

Conductivity		
84 µS Standard =	80	meter
1,413 µS Standard =	1410	meter

Are meters within acceptable calibration range? Yes

Parameters/Well Volume

Well Volume #	1	2	3	within 10% 2nd volume	4	within 10% 3rd volume	5	within 10% 4th volume	6	within 10% 5th volume	7
Temperature (°F)	54	53	54	Yes	54	Yes	53	Yes			
pH	9.1	8.1	8.1	Yes	8.1	Yes	8.1	Yes			
Conductivity (µS)	100	100	90	Yes	90	Yes	100	Yes			
Turbidity (NTU's)	42	26	10	No	1.5	No	1.2	Yes			

	Odor	Visible Sheen	Clarity	Color
Initial top bail:	None	No	High	None
Initial bottom bail:	None	No	High	None
During Development:	None	No	High	None

Did well go dry? No Volumes removed before well went dry: NA gal(s)

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/27/93	Weather	Sunny,Cool 65 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W03S2-1 (T)
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
P onnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	30	ft.
Depth of Water *	1	ft.
Length of Water Column	29	ft.
Volume of Water in Well	4.7	gal.(s)
3X Volume of Water in Well	14.1	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 15 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings (C)				pH Readings				Conductivity Readings (uS)			
				4.0 Standard		4.0		447.1 uS Standard		450	
				7.0 Standard		7.0		1413 uS Standard			
				10.0 Standard		9.8					
		initial	10		initial	7.4			initial	220	
after	5 (gal.)		7	after	5 (gal.)	7.8		after	5 (gal.)	200	
after	10 (gal.)		8	after	10 (gal.)	7.8		after	10 (gal.)	190	
after	15 (gal.)		9	after	15 (gal.)	7.8		after	15 (gal.)	190	
after	F (gal.)		9	after	F (gal.)	7.7		after	F (gal.)	140	
after	(gal.)			after	(gal.)			after	(gal.)		

r Sample:

Collected 1650

Physical Appearance

Color	Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 9.2 mg/l

Turbidity Readings		
Standard		
Standard		
Initial		
after	(gal)	
after	(gal)	
after	(gal)	
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
al depth of well from TOC estimated in the field,
actual depth is 28.2 ft.
- PID = BKGD
- W-03/S2 = W-03T

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W03S2-2 (T)
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	28.0	ft.
Depth of Water *	1.21	ft.
Length of Water Column	26.79	ft.
Volume of Water in Well	4.37	gal.(s)
3X Volume of Water in Well	13.11	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 13.2 gal.(s)
Did well go dry ?: No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		initial	9
after	4.4	(ga	10
after	8.8	(gal.)	10
after	13.2	(gal.)	10
after	F	(gal.)	10
after		(gal.)	

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.8
		initial	7.9
after	4.4	(gal.)	7.9
after	8.8	(gal.)	7.9
after	13.2	(gal.)	7.8
after	F	(gal.)	7.9
after		(gal.)	

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1410
		initial	200
after	4.4	(gal.)	200
after	8.8	(gal.)	190
after	13.2	(gal.)	200
after	F	(gal.)	200
after		(gal.)	

Sample:

Collected: 09:10

Physical Appearance

Color: Light Brown
Odor: None
Turbidity (> 100 NTUs): >100
Sheen/Free Product: None

Dissolved Oxygen: 8.8 mg/l

Turbidity Readings			
		Standard	
		Standard	
		initial	Low
after	4.4	(gal)	>100
after	8.8	(gal)	>100
after	13.2	(gal)	>100
after	F	(gal)	>100
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

- HNu = 0.6 ppm.
-W03/S2 = W03T

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/30/93
Site Name: BURGESS BROS SF.
Site Location: BENNINGTON, VT.
Personnel: MMC, FJF T.F.
Weather: SNOW - 40°
Well #/Sample Name: W-07DI-3
Project #: 5271.002
Excavation Method:

Depth of Well * 237 ft.
Depth of Water * 201.2 ft.
Length of Water Column 35.8 ft.
Volume of Water in Well 5.8 gal.(s)
3X Volume of Water in Well 17.5 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 180 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard	4.0		
		7.0 Standard	—	84 S Standard	90
		10.0 Standard	10	1413 S Standard	
Initial	8.5	Initial	~~11.3~~	Initial	~~840~~
after 6.0 (gal.)	~~8.3~~ 8.5	after 6.0 (gal.)	11.3	after 6.0 (gal.)	89.
after 12.0 (gal.)	~~8.1~~ 8.3	after 12.0 (gal.)	~~11.5~~	after 12.0 (gal.)	84.
after 18.0 (gal.)	8.1	after 18.0 (gal.)	11.5	after 18.0 (gal.)	840
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	

Water Sample:
Time Collected 12:00

Physical Appearance
Color CLEAR/TAN
Odor NONE
Turbidity (> 100 NTUs) LOW
Sheen/Free Product

Dissolved Oxygen: —

Turbidity Reading
Standard
Standard
Initial
after (gal)
after (gal)
after (gal)
after (gal)
after (gal)

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. MONITORING WELL DEVELOPMENT LOG

)ATE: 6/9/94

SITE NAME: Burgess Brothers Superfund Site

SITE LOCATION: Bennington, Vermont

PERSONNEL: MAR/MCJ

WEATHER: Sunny, 80°

WELL IDENTIFICATION: W-TP-12

PROJECT NUMBER#: 5271.003

EXCAVATION METHOD: SS Bailer

Depth of Well*	29.50 ft	DID THE WELL GO DRY? NO
Depth of Water*	21.62 ft	WATER VOLUME/FT
Length of Water Column*	7.88 ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	1.28 gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	4 gal	

*MEASUREMENTS TAKEN FROM:

__X__ TOP OF WELL CASING ____TOP OF PROTECTIVE CASING _____ OTHER (specify):

INSTRUMENT CALIBRATION

pH Calibration

4.0 STANDARD: 4.0

7.0 STANDARD: 7.0

CONDUCTIVITY METER

84 uS STANDARD: 80

1413 uS STANDARD: 1410

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA	54	5.9	470	> 100
1st	1.28 gal	54	5.2	620	> 100
2nd	2.56 gal	54	5.1	620	> 100
3rd	3.84 gal	54	5.1	650	> 100
.h	5.12 gal	54	5.1	660	> 100
5th	gal				

O'BRIEN & GERE ENGINEERS, INC. MONITORING WELL DEVELOPMENT LOG

)ATE: 6/9/94

SITE NAME: Burgess Brothers Superfund Site

SITE LOCATION: Bennington, Vermont

PERSONNEL: MAR/MCJ

WEATHER: Sunny, 80°

WELL IDENTIFICATION: W-04T

PROJECT NUMBER#: 5271.003

EXCAVATION METHOD: SS Bailer

Depth of Well*	30.00	ft
Depth of Water*	0	ft
Length of Water Column*	30.0	ft
Volume of Water in Well	4.89	gal
3xVolume of Water in Well	14.7	gal

DID THE WELL GO DRY? YES

WATER VOLUME/FT

2" Diameter Well= 0.163xLWC
4" Diameter Well= 0.653xLWC
6" Diameter Well= 1.469xLWC

LWC= LENGTH OF WATER COLUMN

*MEASUREMENTS TAKEN FROM:

_X__ TOP OF WELL CASING ____TOP OF PROTECTIVE CASING _____ OTHER (specify):

INSTRUMENT CALIBRATION

pH Calibration
4.0 STANDARD: 4.0
7.0 STANDARD: 7.0

CONDUCTIVITY METER
84 uS STANDARD: 80
1413 uS STANDARD: 1410

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA	60	7.6	150	>100
1st	3.33 gal	58	7.4	140	>100
2nd	6.66 gal	56	7.6	150	>100
3rd	10 gal	56	7.6	160	>100
:h	gal				
5th	gal				

O'BRIEN & GERE ENGINEERS, INC. MONITORING WELL DEVELOPMENT LOG

)ATE: 6/9/94

SITE NAME: Burgess Brothers Superfund Site

SITE LOCATION: Bennington, Vermont

PERSONNEL: MAR/MCJ

WEATHER: Sunny, 80°

WELL IDENTIFICATION: W-22T

PROJECT NUMBER#: 5271.003

EXCAVATION METHOD: SS Bailer

Depth of Well*	30.70	ft
Depth of Water*	1.33	ft
Length of Water Column*	29.37	ft
Volume of Water in Well	4.80	gal
3xVolume of Water in Well	14.40	gal

DID THE WELL GO DRY? YES

WATER VOLUME/FT

2" Diameter Well= 0.163xLWC
4" Diameter Well= 0.653xLWC
6" Diameter Well= 1.469xLWC

LWC= LENGTH OF WATER COLUMN

*MEASUREMENTS TAKEN FROM:

_X__ TOP OF WELL CASING ____TOP OF PROTECTIVE CASING _____ OTHER (specify):

INSTRUMENT CALIBRATION

pH Calibration
4.0 STANDARD: 4.0
7.0 STANDARD: 7.0

CONDUCTIVITY METER
84 uS STANDARD: 80
1413 uS STANDARD: 1410

WATER PARAMETERS

Volume of Water Bailed			Temperature (° F)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA		54	6.8	160	> 100
1st	4.80	gal	52	6.9	250	> 100
2nd	7.0	gal	52	7.6	220	> 100
3rd	10	gal	50	7.4	200	> 100
:h		gal				
5th		gal				

O'BRIEN & GERE ENGINEERS, INC. MONITORING WELL DEVELOPMENT LOG

)ATE: 6/9/94

SITE NAME: Burgess Brothers Superfund Site

SITE LOCATION: Bennington, Vermont

PERSONNEL: MAR/MCJ

WEATHER: Sunny, 80°

WELL IDENTIFICATION: W-26T

PROJECT NUMBER#: 5271.003

EXCAVATION METHOD: SS Bailer

Depth of Well*	22.20	ft
Depth of Water*	13.32	ft
Length of Water Column*	8.88	ft
Volume of Water in Well	1.45	gal
3xVolume of Water in Well	4.34	gal

DID THE WELL GO DRY? NO

WATER VOLUME/FT

2" Diameter Well= 0.163xLWC
4" Diameter Well= 0.653xLWC
6" Diameter Well= 1.469xLWC

LWC= LENGTH OF WATER COLUMN

*MEASUREMENTS TAKEN FROM:

_X__ TOP OF WELL CASING ____TOP OF PROTECTIVE CASING _____ OTHER (specify):

INSTRUMENT CALIBRATION

pH Calibration

4.0 STANDARD: 4.0

7.0 STANDARD: 7.0

CONDUCTIVITY METER

84 uS STANDARD: 80

1413 uS STANDARD: 1410

WATER PARAMETERS

Volume of Water Bailed			Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA		50	6.3	130	>100
1st	1.45	gal	48	6.8	120	>100
2nd	2.90	gal	50	4.5	130	>100
3rd	4.35	gal	50	4.7	120	>100
h		gal				
5th		gal				

O'BRIEN & GERE ENGINEERS, INC. — MONITORING WELL DEVELOPMENT LOG

DATE: 6/3/94

SITE NAME: Burgess Brothers Superfund Site

SITE LOCATION: Bennington, Vermont

PERSONNEL: MAR/EEF

WEATHER: Clear, 59°

WELL IDENTIFICATION: W-27T

PROJECT NUMBER#: 5271.003

EXCAVATION METHOD: SS Bailer

Depth of Well*	36.03 ft	DID THE WELL GO DRY? Yes
Depth of Water*	14.46 ft	WATER VOLUME/FT
Length of Water Column*	21.57 ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	3.5 gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	10.5 gal	

*MEASUREMENTS TAKEN FROM:

__X__ TOP OF WELL CASING ____TOP OF PROTECTIVE CASING _____ OTHER (specify):

INSTRUMENT CALIBRATION

pH Calibration
4.0 STANDARD: 4.0
7.0 STANDARD: 7.0

CONDUCTIVITY METER
84 uS STANDARD: 80
1413 uS STANDARD: 1410

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA	14.5	6.9	1035	> 100
1st	3.5 gal	11.5	7.1	968	> 100
2nd	7.0 gal	11.9	7.0	1023	> 100
3rd	10.5 gal	11.9	7.0	1043	> 100
th	gal				
5th	gal				

O'BRIEN & GERE ENGINEERS, INC.	MONITORING WELL DEVELOPMENT LOG

ATE: 6/3/94	WEATHER: Clear, 59°
SITE NAME: Burgess Brothers Superfund Site	WELL IDENTIFICATION: W-27S1
SITE LOCATION: Bennington, Vermont	PROJECT NUMBER#: 5271.003
PERSONNEL: MAR/EEF	EXCAVATION METHOD: SS Bailer

Depth of Well*	21.67	ft	DID THE WELL GO DRY? NO
Depth of Water*	14.71	ft	WATER VOLUME/FT
Length of Water Column*	6.96	ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	1.13	gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	3.4	gal	

*MEASUREMENTS TAKEN FROM:

_X__ TOP OF WELL CASING ____TOP OF PROTECTIVE CASING _____ OTHER (specify):

INSTRUMENT CALIBRATION

pH Calibration	CONDUCTIVITY METER
4.0 STANDARD: 4.0	84 uS STANDARD: 80
7.0 STANDARD: 7.0	1413 uS STANDARD: 1410

WATER PARAMETERS

Volume of Water Bailed			Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA		9.1	6.6	563	>100
1st	1.13	gal	8.7	6.8	449	>100
2nd	2.26	gal	8.8	6.8	454	>100
3rd	3.39	gal	8.7	6.9	462	>100
4th		gal				
5th		gal				

O'BRIEN & GERE ENGINEERS, INC. MONITORING WELL DEVELOPMENT LOG

te 06/17/94 Weather CLEAR/SUNNY 90°+

Site Name BURGESS BROS. SUPERFUND SITE Well# W-01DI

Site Location BENNINGTON, Vt. Project# 5271.003

Personnel TEDD FISKE, MIKE JENKS Evacavation Method

Depth of Well*	236.85	ft	Did the well dry? Yes
Depth of Water*	70.15	ft	Water Volume/ft
Length of Water Column*	166.7	ft	2" Diameter Well = 0.163xLWC (circled) 4" Diameter Well = 0.653xLWC 6" Diameter Well = 1.469xLWC
Volume of Water in Well	27.17	gal	LWC = Length of water column
Volume of Water in Well	81.51	gal	

*Measurements taken from: PVC Top of Well Casing ____ Top of Protective casing

____ Other (specify)

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	5 gal	14.9	5.8	151	>100
1st	28 gal	14.7	3.4	135	>100
2nd	35 gal	11.9	2.9	140	>100
3rd	28 gal	12.5	2.7	129	>100
4th	gal				
	gal				

Appendix 20

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/25/93	Weather	Sunny 65 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W01S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	Bailer

Depth of Well *	16.20	ft.
Depth of Water *	8.46	ft.
Length of Water Column	7.74	ft.
Volume of Water in Well	1.26	gal.(s)
3X Volume of Water in Well	3.78	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature (C) Readings			
initial			10
after	1.33	(gal.)	8
after	2.66	(gal.)	8
after	4.00	(gal.)	8
after	F	(gal.)	8
after		(gal.)	

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.9
initial			
after	1.33	(gal.)	7.6
after	2.66	(gal.)	7.5
after	4.00	(gal.)	7.7
after	F	(gal.)	7.8
after		(gal.)	

Conductivity (uS) Readings			
447.1 uS Standard			450
1413 uS Standard			1410
initial			
after	1.33	(gal.)	190
after	2.66	(gal.)	190
after	4.00	(gal.)	200
after	F	(gal.)	180
after		(gal.)	

Water Sample:

Time Collected: 1000

Physical Appearance

Color	Silty Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 7.8 mg/l

Turbidity Readings			
Standard			
Standard			
Initial			
after	Vol.#1	(gal)	>100
after	Vol.#2	(gal)	>100
after	Vol.#3	(gal)	>100
after	F	(gal)	>100
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- PID = 0.0.
- Actual depth of well is 14.20'.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/22/93	Weather	Cloudy 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W01S1-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	16.20	ft.
Depth of Water *	8.82	ft.
Length of Water Column	7.38	ft.
Volume of Water in Well	1.2	gal.(s)
3X Volume of Water in Well	3.6	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.6 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		initial	12
after		(gal.)	
after	1.2	(gal.)	11
after	2.4	(gal.)	11
after	3.6	(gal.)	11
after	F	(gal.)	11

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.2
10.0 Standard			10.0
		initial	7.2
after		(gal.)	
after	1.2	(gal.)	7.6
after	2.4	(gal.)	7.6
after	3.6	(gal.)	7.6
after	F	(gal.)	7.6

Conductivity Readings			
84 uS Standard			90
1413 u		Standard	1420
		Initial	290
after		(gal.)	
after	1.2	(gal.)	190
after	2.4	(gal.)	190
after	3.6	(gal.)	190
after	F	(gal.)	190

Water Sample:

Time Collected: 08:52

Physical Appearance

Color: Lite Brown
Odor: None
Turbidity (> 100 NTUs): >100
Sheen/Free Product: None

Dissolved Oxygen: 7.6 mg/l

Turbidity Readings			
73		Standard	73
8.4		Standard	8.4
		Initial	>100
after		(gal)	
after	1.2	(gal)	>100
after	2.4	(gal)	>100
after	3.6	(gal)	>100
after	F	(gal)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNU = 0 ppm
- Actual depth of well is 14.20

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	5/26/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W02-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	Bailer

Depth of Well *	20.2	ft.
Depth of Water *	0.25	ft.
Length of Water Column	19.9	ft.
Volume of Water in Well	3.25	gal.(s)
3X Volume of Water in Well	9.75	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.25 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 450
		7.0 Standard: 7.0	1413 uS Standard: 1410
		10.0 Standard: 9.9	
	initial: 10	initial: 7.3	initial: 500
after 3.25 (gal.)	9	after 3.25 (gal.) 7.1	after 3.25 (gal.) 650
after F (gal.)	9	after F (gal.) 7.4	after F (gal.) 590
after (gal.)		after (gal.)	after (gal.)
after (gal.)		after (gal.)	after (gal.)
after (gal.)		after (gal.)	after (gal.)

Vater Sample:

Time Collected: 0830

Physical Appearance — Dissolved Oxygen: 13 mg/l

Color	Gray
Odor	Organic Decomp.
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity Readings	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

Well PID = BKGD
- 5/27/93 - 0830 - 8270,8240
- 5/27/93 - 1100 - Metals
- 5/27/93 - 1630 - Metals,Cn,CrIII

Blind Dup. 9010
Cn - Tested for oxidizers & sulfides - Neg.
Well purged on 5/26/93 pm and sampled on 5/27/93 am.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	MW02-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	20.20	ft.
Depth of Water *	0.7	ft.
Length of Water Column	19.50	ft.
Volume of Water in Well	3.18	gal.(s)
3X Volume of Water in Well	6.54	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.18 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		Initial	15
after	3.18	(ga	11
after	F	(gal.)	15
after		(gal.)	
after		(gal.)	
after		(gal.)	

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.8
		Initial	7.4
after	3.18	(gal.)	7.1
after	F	(gal.)	7.4
after		(gal.)	
after		(gal.)	
after		(gal.)	

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1410
		Initial	450
after	3.18	(gal.)	570
after	F	(gal.)	490
after		(gal.)	
after		(gal.)	
after		(gal.)	

Water Sample:

Time Collected: 12:00,13:45,15:30

Physical Appearance

Color: Light Brown
Odor: Slight
Turbidity (> 100 NTUs): >100
Sheen/Free Product: None

Dissolved Oxygen: 8.5 mg/l

Turbidity Readings			
		Standard	
		Standard	
		Initial	Low
after	1	(gal)	>100
after	F	(gal)	>100
after		(gal)	
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

- HNu = 0.6 ppm.
- Purged @ 10:15.
- Sampled @ 12:00 VOA, 8270.
- Sampled @ 13:45 8080, BOD, TOC, CrVI.
- Sampled @ 15:30 Metals, Cr.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/26/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W03-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	19.49	ft.
Depth of Water *	2.1	ft.
Length of Water Column	17.39	ft.
Volume of Water in Well	2.83	gal.(s)
3X Volume of Water in Well	8.49	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 9 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 450
		7.0 Standard: 7.0	1413 uS Standard: 1410
		10.0 Standard: 9.9	
initial	10	initial 7.3	initial 360
after 3 (gal.)	8	after 3 (gal.) 7.3	after 3 (gal.) 370
after 6 (gal.)	8	after 6 (gal.) 7.5	after 6 (gal.) 330
after 9 (gal.)	8	after 9 (gal.) 7.7	after 9 (gal.) 330
after F (gal.)	8	after F (gal.) 7.8	after F (gal.) 310
after ____ (gal.)		after ____ (gal.)	after ____ (gal.)

Water Sample:

Time Collected: 1630

Physical Appearance

Color	Light Brown
Odor	Very Slight
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: None Taken

Turbidity Readings	
Standard	
Standard	
Initial	
after ____ (gal)	
after ____ (gal)	
after ____ (gal)	
after ____ (gal)	
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
First Bail = 13 NTU each other volume > 100.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W03-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	19.49	ft.
Depth of Water *	2.17	ft.
Length of Water Column	17.32	ft.
Volume of Water in Well	2.8	gal.(s)
3X Volume of Water in Well	8.4	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.5 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings				pH Readings				Conductivity Readings			
			Initial 16				4.0 Standard 4.0				84 uS Standard 90
							7.0 Standard 7.0				1413 uS Standard 1410
							10.0 Standard 9.8				Initial 400
after	2.8	(ga	10				Initial 7.8				
after	3.5	(gal.)	13	after	2.8	(gal.)	7.4	after	2.8	(gal.)	360
after		(gal.)		after	3.5	(gal.)	7.6	after	3.5	(gal.)	350
after		(gal.)		after		(gal.)		after		(gal.)	
after		(gal.)		after		(gal.)		after		(gal.)	
after		(gal.)		after		(gal.)		after		(gal.)	

Water Sample:

Time Collected: 09 55

Physical Appearance

Dissolved Oxygen: 11.4 mg/l

Color	Light Brown
Odor	Slight Musty
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity Readings			
		Standard	
		Standard	
		Initial	Low
after	2.8	(gal)	>100
after	3.5	(gal)	>100
after		(gal)	
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

- HNu = 0.6 ppm.

- MS/MSD For All Analytes.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/26/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04 S-1
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	6.37	ft.
Depth of Water *	1.11	ft.
Length of Water Column	5.26	ft.
Volume of Water in Well	.86	gal.(s)
3X Volume of Water in Well	2.58	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings
initial	11
after 2 (gal.)	11.7
after 3 (gal.)	10.3
after 6 (gal.)	10.1
after F (gal.)	10
after (gal.)	

	pH Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.9
initial	
after 2 (gal.)	7.1
after 3 (gal.)	7.1
after 6 (gal.)	7.1
after F (gal.)	7.2
after (gal.)	

	Conductivity (uS) Readings
447.1 uS Standard	450
1000 uS Standard	1410
initial	
after 2 (gal.)	466
after 3 (gal.)	438
after 6 (gal.)	437
after F (gal.)	460
after (gal.)	

Water Sample:

Time Collected: 2030

Physical Appearance

Dissolved Oxygen: 6.8 mg/l

Color	Dark Brown
Odor	Organic Decomp.
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

	Turbidity Readings
75.5 Standard	75
8.5 Standard	9
Initial	
after 2 (gal)	>100
after 3 (gal)	>100
after 6 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- PID = BKGD

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/23/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04S-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	6.37	ft.
Depth of Water *	1.11	ft.
Length of Water Column	5.26	ft.
Volume of Water in Well	.86	gal.(s)
3X Volume of Water in Well	2.58	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		initial	18
after	1	(gal.)	15
after	2	(gal.)	14
after	3	(gal.)	13
after	F	(gal.)	15
after		(gal.)	

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.8
		initial	7.7
after	1	(gal.)	7.4
after	2	(gal.)	7.3
after	3	(gal.)	7.4
after	F	(gal.)	7.4
after		(gal.)	

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1420
		initial	410
after	1	(gal.)	420
after	2	(gal.)	420
after	3	(gal.)	430
after	F	(gal.)	380
after		(gal.)	

Water Sample:

Time Collected: 10:40

Physical Appearance

Color: Clear
Odor: None
Turbidity (> 100 NTUs): >100
Sheen/Free Product: None

Dissolved Oxygen: 4.4 mg/l

Turbidity Readings			
		Standard	
		Standard	
		Initial	
after	1	(gal)	>100
after	2	(gal)	>100
after	3	(gal)	>100
after	F	(gal)	>100
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- Well bailed within 2 feet of bottom and then allowed to recover for sampling.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	5/26/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04D-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	17.71	ft.
Depth of Water *	0.9	ft.
Length of Water Column	16.81	ft.
Volume of Water in Well	2.74	gal.(s)
3X Volume of Water in Well	8.22	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings
initial	9
after 3 (gal.)	9
after F (gal.)	8
after (gal.)	
after (gal.)	
after (gal.)	

	pH Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.9
initial	7.5
after 3 (gal.)	7.8
after F (gal.)	7.6
after (gal.)	
after (gal.)	
after (gal.)	

	Conductivity (uS) Readings
447.1 uS Standard	450
1413 uS Standard	1410
initial	380
after 3 (gal.)	380
after F (gal.)	390
after (gal.)	
after (gal.)	
after (gal.)	

Water Sample:

Time Collected: 2045

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100 NTUs
Sheen/Free Product	None

Dissolved Oxygen: 6.2 mg/l

	Turbidity Readings
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
PID=BKGD

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/23/93	Weather	Sunny 75 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04D-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	17.71	ft.
Depth of Water *	0.80	ft.
Length of Water Column	16.91	ft.
Volume of Water in Well	2.75	gal.(s)
3X Volume of Water in Well	8.25	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 5.50 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings				pH Readings				Conductivity Readings			
				4.0 Standard		4.0		84 uS Standard		90	
				7.0 Standard		7.0		1413 uS Standard		1420	
				10.0 Standard		9.8					
		initial	13		initial	7.9			initial	360	
after	2.75	(gal.)	12	after 2.75	(gal.)	7.9		after 2.75	(gal.)	280	
after	5.5	(gal.)	10	after 5.5	(gal.)	7.8		after 5.5	(gal.)	300	
after	F	(gal.)	10	after F	(gal.)	7.6		after F	(gal.)	350	
after		(gal.)		after	(gal.)			after	(gal.)		
after		(gal.)		after	(gal.)			after	(gal.)		

Water Sample:

Time Collected: 10:20

Physical Appearance — Dissolved Oxygen: 3.9 mg/l

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No

Turbidity Readings			
		Standard	
		Standard	
		Initial	
after	2.75	(gal)	>100
after	5.5	(gal)	>100
after	F	(gal)	>100
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.
- Well bailed within 2 feet of bottom and then allowed to recover for sampling.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/27/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W05-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/Andy Crabb	Excavation Method	SS Bailer

Depth of Well *	16.6	ft.
Depth of Water *	2.5	ft.
Length of Water Column	14.1	ft.
Volume of Water in Well	2.30	gal.(s)
3X Volume of Water in Well	6.9	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 7 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 450
		7.0 Standard: 7.0	1000 uS Standard:
		10.0 Standard: 9.8	
initial	10	7.7	160
after 2.33 (gal.)	8	7.9	170
after 4.66 (gal.)	8	7.8	180
after 7 (gal.)	9	7.8	190
after F (gal.)	9	7.8	190
after (gal.)			

Water Sample:

Time Collected: 1515

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100 NTUs
Sheen/Free Product	None

Dissolved Oxygen: 13.5 mg/l

Turbidity Readings	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
PID = BKGD

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W05-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	16.60	ft.
Depth of Water *	2.55	ft.
Length of Water Column	14.05	ft.
Volume of Water in Well	2.30	gal.(s)
3X Volume of Water in Well	6.90	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4.60 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4.0			
			7.0 Standard		7.0	84 uS Standard		90
			10.0 Standard		9.8	1413 uS Standard		1410
		initial 17			initial 7.8			initial 170
after	2.30 (gal.)	12	after 2.30	(gal.)	7.9	after 2.30	(gal.)	180
after	4.60 (gal.)	11	after 4.60	(gal.)	7.8	after 4.60	(gal.)	180
after	F (gal.)	11	after F	(gal.)	7.8	after F	(gal.)	220
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected: 12:15

Physical Appearance

Color: Light Brown
Odor: None
Turbidity (> 100 NTUs): >100
Sheen/Free Product: None

Dissolved Oxygen: 9.6 mg/l

Turbidity Readings		
Standard		
Standard		
initial		Low
after 2.30	(gal)	>100
after 4.60	(gal)	>100
after F	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

OTES:
- BD for all analysis except 8240.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/27/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W06S-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	7	ft.
Depth of Water *	1.27	ft.
Length of Water Column	5.73	ft.
Volume of Water in Well	0.93	gal.(s)
3X Volume of Water in Well	2.80	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature (C)	Readings
initial	10
after 1 (gal.)	10
after 2 (gal.)	10
after 3 (gal.)	9
after F (gal.)	9
after ____ (gal.)	

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.8
initial	7.2
after 1 (gal.)	7.0
after 2 (gal.)	7.2
after 3 (gal.)	7.3
after F (gal.)	7.0
after ____ (gal.)	

Conductivity (uS)	Readings
447.1 uS Standard	450
1413 uS Standard	
initial	180
after 1 (gal.)	160
after 2 (gal.)	160
after 3 (gal.)	160
after F (gal.)	160
after ____ (gal.)	

Water Sample:

Time Collected: 1040

Physical Appearance

Color	Brown
Odor	Slight
Turbidity (> 100 NTUs)	>100 NTUs
Sheen/Free Product	None

Dissolved Oxygen: 14.5 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 3 (gal)	>100
after 6 (gal)	>100
after 9 (gal)	>100
after F (gal)	>100
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
PID = BKGD
M&E Collected Split

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/23/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-06S-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	7.11	ft.
Depth of Water *	1.06	ft.
Length of Water Column	6.05	ft.
Volume of Water in Well	.98	gal.(s)
3X Volume of Water in Well	2.94	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH	Readings	Conductivity	Readings
		4.0 Standard	4.0		
		7.0 Standard	7.0	84 uS Standard	90
		10.0 Standard	9.8	1413 uS Standard	1420
	initial 19	initial	7.4	initial	190
after 1 (gal.)	15	after 1 (gal.)	7.7	after 1 (gal.)	170
after 2 (gal.)	13	after 2 (gal.)	7.6	after 2 (gal.)	150
after 3 (gal.)	14	after 3 (gal.)	7.6	after 3 (gal.)	160
after F (gal.)	15	after F (gal.)	7.7	after F (gal.)	150
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected: 16:35

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: Not Documented

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 1 (gal)	>100
after 2 (gal)	>100
after 3 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

OTES:
- HNu = 0.2 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/27/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W06D-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	18.87	ft.
Depth of Water *	1.43	ft.
Length of Water Column	17.44	ft.
Volume of Water in Well	2.84	gal.(s)
3X Volume of Water in Well	8.53	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 9 gal.(s)
Did well go dry: Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1000 uS Standard
	initial 10	initial 7.3	initial 170
after 3 (gal.)	9	7.3	150
after 6 (gal.)	8	7.5	150
after 9 (gal.)	8	7.7	150
after F (gal.)	9	7.8	150
after (gal.)			

Water Sample:

Time Collected: 1430

Physical Appearance

Dissolved Oxygen: 14.0 mg/l

Color	Light Brown
Odor	No
Turbidity (> 100 NTUs)	>100 NTUs
Sheen/Free Product	None

Turbidity Readings			
Standard			
Standard			
Initial			Low
after 3	(gal)		>100
after 6	(gal)		>100
after 9	(gal)		>100
after F	(gal)		>100
after	(gal)		

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- PID = BK
M&E Collected Split

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/23/93	Weather	Sunny 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-06D-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	18.87	ft.
Depth of Water *	1.44	ft.
Length of Water Column	17.43	ft.
Volume of Water in Well	2.84	gal.(s)
3X Volume of Water in Well	8.52	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings	
initial	21
after 2.84 (gal.)	11
after F (gal.)	11
after (gal.)	
after (gal.)	
after (gal.)	

pH Readings	
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.8
initial	7.9
after 2.84 (gal.)	8.1
after F (gal.)	8.1
after (gal.)	
after (gal.)	
after (gal.)	

Conductivity Readings	
84 uS Standard	90
1413 uS Standard	1420
initial	140
after 2.84 (gal.)	150
after F (gal.)	150
after (gal.)	
after (gal.)	
after (gal.)	

Water Sample:

Time Collected: 16:50

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 10.3 mg/l

Turbidity Readings	
Standard	
Standard	
Initial	Low
after 2.84 (gal)	>100
after F (gal)	>100
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

OTES:
Blind Dup. 1-2 8240/ Metals.
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/28/93	Weather	Rainy,Cold
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W07/S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	17	ft.
Depth of Water *	6.77	ft.
Length of Water Column	10.23	ft.
Volume of Water in Well	1.68	gal.(s)
3X Volume of Water in Well	5	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 450
		7.0 Standard: 7.0	1413 uS Standard: -
		10.0 Standard: 9.7	
initial	9	7.4	480
after 2 (gal.)	9	7.1	420
after 4 (gal.)	9	6.7	410
after 6 (gal.)	9	6.9	420
after F (gal.)	9	6.9	430
after (gal.)			

Water Sample:

Time Collected: 0830

Physical Appearance

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No

Dissolved Oxygen: 6.0 mg/l

Turbidity Readings	
Standard	
Standard	
Initial	2.5
after 2 (gal)	>100
after 4 (gal)	>100
after 6 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
PID = BKGD.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-07/S1-2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	17.0	ft.
Depth of Water *	7.54	ft.
Length of Water Column	9.46	ft.
Volume of Water in Well	1.54	gal.(s)
3X Volume of Water in Well	4.62	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 5 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		Initial	18
after	1.5 (gal.)		12
after	3.0 (gal.)		12
after	4.5 (gal.)		12
after	F (gal.)		13
after	(gal.)		

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.8
		Initial	7.2
after	1.5 (gal.)		7.4
after	3.0 (gal.)		7.3
after	4.5 (gal.)		7.3
after	F (gal.)		7.5
after	(gal.)		

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1410
		Initial	460
after	1.5 (gal.)		420
after	3.0 (gal.)		440
after	4.5 (gal.)		450
after	F (gal.)		450
after	(gal.)		

Water Sample:

Time Collected: 18:30

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 4.6 mg/l

Turbidity Readings			
Standard			
Standard			
		Initial	Low
after	1.5 (gal)		>100
after	3.0 (gal)		>100
after	4.5 (gal)		>100
after	F (gal)		>100
after	(gal)		

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
HNu = 0.6 ppm.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	5/25/93	Weather	Sunny 75 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W08S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	27.3	ft.
Depth of Water *	18.84	ft.
Length of Water Column	8.46	ft.
Volume of Water in Well	1.04	gal.(s)
3X Volume of Water in Well	3.12	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 9.3 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
	initial 15	initial 7.3	initial 60
after 1.33 (gal.)	10	6.2	50
after 2.66 (gal.)	9	7.4	80
after 4 (gal.)	9	7.9	80
after 5.3 (gal.)	10	8.1	90
after 6.6 (gal.)	10	7.2	80
after 8.0 (gal.)	9	7.8	80
after 9.3 (gal.)	9	8.0	80

Water Sample:

Time Collected: 1550

Physical Appearance

Color	Brown
Odor	Slight
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 10.5 mg/l

Turbidity Readings	
75.5 Standard	75
8.5 Standard	9
Initial	25
after 1.33 (gal)	>100
after 2.66 (gal)	>100
after 4 (gal)	>100
after 5.3 (gal)	>100
after 6.6 (gal)	>100
after 8.0 (gal)	>100
after 9.3 (gal)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- PID = 0.0

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/22/93	Weather	Cloudy 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-08/S1-2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	27.30	ft.
Depth of Water *	19.54	ft.
Length of Water Column	7.76	ft.
Volume of Water in Well	1.26	gal.(s)
3X Volume of Water in Well	3.78	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6.5 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature			Readings
		initial	13
after	1.3	(gal.)	11
after	2.6	(gal.)	10
after	3.9	(gal.)	10
after	5.2	(gal.)	10
after	6.5	(gal.)	10
after	F	(gal.)	11

pH			Readings
4.0 Standard			4.0
7.0 Standard			7.2
10.0 Standard			10.0
		initial	3.0
after	1.3	(gal.)	5.8
after	2.6	(gal.)	6.4
after	3.9	(gal.)	6.7
after	5.2	(gal.)	6.9
after	6.5	(gal.)	7.0
after	F	(gal.)	7.6

Conductivity			Readings
84 uS Standard			90
1413 uS Standard			1420
		initial	560
after	1.3	(gal.)	90
after	2.6	(gal.)	100
after	3.9	(gal.)	130
after	5.2	(gal.)	150
after	6.5	(gal.)	160
after	F	(gal.)	120

Water Sample:

Time Collected: 17:05

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 10.2 mg/l

Turbidity			Readings
		Standard	
		Standard	
		Initial	Low
after	1.3	(gal.)	>100
after	2.6	(gal.)	>100
after	3.9	(gal.)	>100
after	5.2	(gal.)	>100
after	6.5	(gal.)	>100
after	F	(gal.)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu @ 0.2 per 20 scale.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	5/25/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W09/S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	12.4	ft.
Depth of Water *	5.74	ft.
Length of Water Column	6.66	ft.
Volume of Water in Well	1.09	gal.(s)
3X Volume of Water in Well	3.26	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.3 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings
initial	11
after 1.1 (gal.)	9
after 2.2 (gal.)	9
after 3.3 (gal.)	9
after F (gal.)	10
after (gal.)	

	pH Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.9
initial	5.8
after 1.1 (gal.)	6.0
after 2.2 (gal.)	6.4
after 3.3 (gal.)	6.4
after F (gal.)	6.3
after (gal.)	

	Conductivity (uS) Readings
447.1 uS Standard	450
1413 uS Standard	1410
initial	130
after 1.1 (gal.)	160
after 2.2 (gal.)	220
after 3.3 (gal.)	200
after F (gal.)	140
after (gal.)	

Water Sample:

Time Collected: 1130

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No LNAPL or DNAPL

Dissolved Oxygen: 7.0 mg/l

	Turbidity Readings
75.5 Standard	75
8.5 Standard	9
Initial	
after 1.1 (gal)	>100
after 2.2 (gal)	>100
after 3.3 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/22/93	Weather	Clear 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09/S1-2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	12.40	ft.
Depth of Water *	5.32	ft.
Length of Water Column	7.08	ft.
Volume of Water in Well	1.15	gal.(s)
3X Volume of Water in Well	3.45	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature	Readings
Initial	14
after 1.15 (gal.)	12
after 2.30 (gal.)	12
after 3.45 (gal.)	12
after 4.60 (gal.)	11
after F (gal.)	13

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.2
10.0 Standard	10.0
Initial	3.1
after 1.15 (gal.)	6.0
after 2.30 (gal.)	6.4
after 3.45 (gal.)	6.4
after 4.60 (gal.)	6.5
after F (gal.)	6.3

Conductivity	Readings
84 uS Standard	90
1413 uS Standard	1420
Initial	630
after 1.15 (gal.)	160
after 2.30 (gal.)	220
after 3.45 (gal.)	150
after 4.60 (gal.)	150
after F (gal.)	130

Water Sample:

Time Collected: 15:30

Physical Appearance

Color	Light Brown/Grey
Odor	Sulfur
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 3.7 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 1.15 (gal)	Low
after 2.30 (gal)	>100
after 3.45 (gal)	>100
after 4.60 (gal)	>100
after F (gal)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/26/93	Weather	Overcast, 50 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W11S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	10.1	ft.
Depth of Water *	3.83	ft.
Length of Water Column	6.27	ft.
Volume of Water in Well	1.02	gal.(s)
3X Volume of Water in Well	3.06	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 9 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
	initial 11	initial 6.4	initial 490
after 1 (gal.)	9	after 1 (gal.) 6.4	after 1 (gal.) 560
after 2 (gal.)	9	after 2 (gal.) 6.3	after 2 (gal.) 570
after 3 (gal.)	9	after 3 (gal.) 6.4	after 3 (gal.) 580
after F (gal.)	9	after F (gal.) 6.6	after F (gal.) 570
after (gal.)		after (gal.)	after (gal.)

Water Sample:

Time Collected: 1050

Physical Appearance

Color	Gray
Odor	Organic Decomp.
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No

Dissolved Oxygen: 7.5 mg/l

Turbidity Readings	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH		Conductivity

NOTES:
Location split with M&E.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-11S1 – 2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	10.10	ft.
Depth of Water *	3.40	ft.
Length of Water Column	6.70	ft.
Volume of Water in Well	1.09	gal.(s)
3X Volume of Water in Well	3.27	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.3 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature	Readings
initial	17
after 1.1 (gal.)	13
after 2.2 (gal.)	12
after 3.3 (gal.)	12
after F (gal.)	13
after (gal.)	

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.8
initial	6.2
after 1.1 (gal.)	6.3
after 2.2 (gal.)	6.3
after 3.3 (gal.)	6.3
after F (gal.)	6.5
after (gal.)	

Conductivity	Readings
84 uS Standard	90
1413 uS Standard	1410
initial	500
after 1.1 (gal.)	560
after 2.2 (gal.)	570
after 3.3 (gal.)	580
after F (gal.)	490
after (gal.)	

Water Sample:

Time Collected: 14 00

Physical Appearance

Color	Gray
Odor	Organic
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 10.2 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 1.1 (gal)	>100
after 2.2 (gal)	>100
after 3.3 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.8 ppm.
- BD/MS/MSD - 8080,9010

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/26/93	Weather	Cloudy, 50 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W12S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	10.1	ft.
Depth of Water *	2.27	ft.
Length of Water Column	7.83	ft.
Volume of Water in Well	1.25	gal.(s) (4 Bailers)
3X Volume of Water in Well	3.75	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 5.33 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
	initial 11	initial 7.8	initial 230
after 1.33 (gal.)	9	8.0	200
after 2.66 (gal.)	9	8.1	190
after 4 (gal.)	9	8.1	210
after 5.33 (gal.)	9	8.2	220
after F (gal.)	9	7.9	220

Vater Sample:

ime Collected: 0910

Physical Appearance

Dissolved Oxygen: 12.5 ppm

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	>100 (all volumes)
Sheen/Free Product	No

Turbidity Readings	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH		Conductivity

NOTES:
BKGD PID 1.5
Well PID 2.4

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/27/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W12S1-1
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	10.1	ft.
Depth of Water *	2.27	ft.
Length of Water Column	7.83	ft.
Volume of Water in Well	1.25	gal.(s)
3X Volume of Water in Well	3.75	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4.0 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 450
		7.0 Standard: 7.0	1413 uS Standard:
		10.0 Standard: 9.8	
initial	10	7.7	220
after 1.33 (gal.)	10	7.7	210
after 2.66 (gal.)	10	8.0	210
after 4 (gal.)	10	7.9	210
after F (gal.)	10	7.9	220
after (gal.)			

Water Sample:

Time Collected: 1735

Physical Appearance

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	100 (for all volumes)
Sheen/Free Product	No

Dissolved Oxygen: 13.0 mg/l

Turbidity Readings	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES: Sample taken for Hex. Chrom. only.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-12S1 -2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	10.10	ft.
Depth of Water *	2.26	ft.
Length of Water Column	7.84	ft.
Volume of Water in Well	1.28	gal.(s)
3X Volume of Water in Well	3.84	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2.5 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH	Readings	Conductivity	Readings
		4.0 Standard	4.0		
		7.0 Standard	7.0	84 uS Standard	90
		10.0 Standard	9.8	1413 uS Standard	1410
	initial 15	initial	8.0	initial	200
after 1.25 (gal.)	12	after 1.25 (gal.)	8.0	after 1.25 (gal.)	190
after 2.5 (gal.)	12	after 2.5 (gal.)	8.0	after 2.5 (gal.)	190
after F (gal.)	13	after F (gal.)	8.1	after F (gal.)	190
after ____ (gal.)		after ____ (gal.)		after ____ (gal.)	
after ____ (gal.)		after ____ (gal.)		after ____ (gal.)	

Water Sample:

Time Collected: 18 00

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 8.2 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 1.25 (gal)	>100
after 2.5 (gal)	>100
after F (gal)	>100
after ____ (gal)	
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

OTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/26/93	Weather	Cloudy,Humid, 50 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W22S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	Bailer

Depth of Well *	11.2	ft.
Depth of Water *	3.07	ft.
Length of Water Column	8.13	ft.
Volume of Water in Well	1.33	gal.(s)
3X Volume of Water in Well	4	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6.66 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
	initial 10	initial 7.4	initial 400
after 1.33 (gal.)	9	7.3	410
after 2.66 (gal.)	9	7.3	410
after 4 (gal.)	9	7.4	520
after 5.33 (gal.)	9	7.2	420
after 6.66 (gal.)	9	7.7	390
after F (gal.)	9	7.4	420

Vater Sample:

Time Collected: 2100

Physical Appearance

Dissolved Oxygen: 12 ppm

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	>100 NTU
Sheen/Free Product	No

Turbidity Readings	
Standard	
Standard	
Initial	
after 1.33 (gal.)	>100
after 2.66 (gal.)	>100
after 4 (gal.)	>100
after 5.33 (gal.)	>100
after 6.66 (gal.)	>100
after F (gal.)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

OTES:
- PID BKGD 4.0 ppm (Eratic Response)
- PID Well 4.5 ppm (Eratic Response)

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny,Hot
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W22S1-2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	11.27	ft.
Depth of Water *	3.07	ft.
Length of Water Column	8.20	ft.
Volume of Water in Well	1.33	gal.(s)
3X Volume of Water in Well	3.99	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH	Readings	Conductivity	Readings
		4.0 Standard	4.0		
		7.0 Standard	7.0	84 uS Standard	90
		10.0 Standard	9.8	1413 uS Standard	1410
	initial 22	initial	7.3	initial	350
after 1.33 (gal.)	13	after 1.33 (gal.)	7.5	after 1.33 (gal.)	370
after 2.66 (gal.)	13	after 2.66 (gal.)	7.6	after 2.66 (gal.)	370
after 3.99 (gal.)	12	after 3.99 (gal.)	7.6	after 3.99 (gal.)	340
after F (gal.)	14	after F (gal.)	7.8	after F (gal.)	400
after ____ (gal.)		after ____ (gal.)		after ____ (gal.)	

Water Sample:

Time Collected: 17:30

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 4.2 mg/l

	Turbidity Readings
Standard	
Standard	
Initial	Low
after 1.33 (gal)	>100
after 2.66 (gal)	>100
after 3.99 (gal)	>100
after F (gal)	>100
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.
- BD 8240.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	5/25/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W25S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	12.45	ft.
Depth of Water *	5.18	ft.
Length of Water Column	7.27	ft.
Volume of Water in Well	1.18	gal.(s)
3X Volume of Water in Well	3.60	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 9.33 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
Initial	16	Initial 4.3	Initial 70
after 1.33 (gal.)	10	after 1.33 (gal.) 4.6	after 1.33 (gal.) 70
after 2.66 (gal.)	10	after 2.66 (gal.) 5.2	after 2.66 (gal.) 80
after 4 (gal.)	9	after 4 (gal.) 5.9	after 4 (gal.) 190
after 5.33 (gal.)	11	after 5.33 (gal.) 5.3	after 5.33 (gal.) 100
after 6.66 (gal.)	10	after 6.66 (gal.) 5.7	after 6.66 (gal.) 100
after 8 (gal.)	10	after 8 (gal.) 5.9	after 8 (gal.) 150
after 9.33 (gal.)	10	after 9.33 (gal.) 6.1	after 9.33 (gal.) 160

Water Sample:

Time Collected: 1640

Physical Appearance

Color	Gray
Odor	Yes
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No

Dissolved Oxygen: Not Performed

Turbidity Readings	
77.5 Standard	77.5
8.5 Standard	9
Initial	13 NTU
after 1.33 (gal)	>100
after 2.66 (gal)	>100
after 4 (gal)	>100
after 5.33 (gal)	>100
after 6.66 (gal)	>100
after 8 (gal)	>100
after 9.33 (gal)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/22/93	Weather	Overcast 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-25S1-2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	12.45	ft.
Depth of Water *	5.69	ft.
Length of Water Column	6.76	ft.
Volume of Water in Well	1.1	gal.(s)
3X Volume of Water in Well	3.3	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.3 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH Readings	Conductivity Readings
		4.0 Standard 4.0	
		7.0 Standard 7.2	84 uS Standard 90
		10.0 Standard 10.0	1413 uS Standard 1420
	initial 15	initial 3.1	initial 460
after 1.1 (gal.)	13	after 1.1 (gal.) 5.0	after 1.1 (gal.) 140
after 2.2 (gal.)	12	after 2.2 (gal.) 5.1	after 2.2 (gal.) 150
after 3.3 (gal.)	12	after 3.3 (gal.) 5.1	after 3.3 (gal.) 150
after F (gal.)	13	after F (gal.) 5.6	after F (gal.) 180
after ____ (gal.)		after ____ (gal.)	after ____ (gal.)

Water Sample:

Time Collected: 16:00

Physical Appearance

Color	Light Brown/Grey
Odor	Sulfur
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 5.2 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	Very Low
after 1.1 (gal)	Very Low
after 2.2 (gal)	Very Low
after 3.3 (gal)	Very Low
after F (gal)	Very Low
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/25/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW10-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	18.19	ft.
Depth of Water *	11.67	ft.
Length of Water Column	6.52	ft.
Volume of Water in Well	1.06	gal.(s)
3X Volume of Water in Well	3.19	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4.44 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
	initial	initial	initial
after 1.1 (gal.)	10	7.6	240
after 2.2 (gal.)	10	7.4	220
after 3.3 (gal.)	10	7.3	260
after 4.4 (gal.)	11	7.2	250
after F (gal.)	13	7.5	250

Water Sample:

Time Collected: 0850

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No LNAPL or DNAPL

Dissolved Oxygen: 9 ppm

Turbidity	Readings
77.5 Standard	77.5
8.5 Standard	9
Initial	
after 1.1 (gal)	>100
after 2.2 (gal)	>100
after 3.3 (gal)	>100
after 4.4 (gal)	>100
after F (gal)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
MS/MSD taken on 7196
Blind Duplicate #1-1 taken for 8240,8270,Metals,7196
- 0850 Hex. Chrom. & VOA's

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/22/93	Weather	Overcast 65
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-10 - 2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	18.19	ft.
Depth of Water *	11.88	ft.
Length of Water Column	6.31	ft.
Volume of Water in Well	1.02	gal.(s)
3X Volume of Water in Well	3.06	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature	Readings
Initial	12
after 1 (gal.)	11
after 2 (gal.)	11
after 3 (gal.)	11
after F (gal.)	12
after ____ (gal.)	

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.2
10.0 Standard	10.0
Initial	7.5
after 1 (gal.)	7.6
after 2 (gal.)	7.6
after 3 (gal.)	7.5
after F (gal.)	7.7
after ____ (gal.)	

Conductivity	Readings
84 uS Standard	90
1413 uS Standard	1420
Initial	230
after 1 (gal.)	220
after 2 (gal.)	220
after 3 (gal.)	230
after F (gal.)	220
after ____ (gal.)	

Water Sample:

Time Collected: 9:30

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 9.8 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 1 (gal)	>100
after 2 (gal)	>100
after 3 (gal)	>100
after F (gal)	>100
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/25/93	Weather	Clear,Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-21 S1-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	Bailer

Depth of Well *	20.1	ft.
Depth of Water *	17.5	ft.
Length of Water Column	2.6	ft.
Volume of Water in Well	0.42	gal.(s)
3X Volume of Water in Well	1.3	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard 1410
		10.0 Standard 9.9	
initial	18	initial 6.6	initial 410
after 0.66 (gal.)	17	after 0.66 (gal.) 6.6	after 0.66 (gal.) 400
after 1.33 (gal.)	17	after 1.33 (gal.) 6.6	after 1.33 (gal.) 410
after 2 (gal.)	17	after 2 (gal.) 6.6	after 2 (gal.) 410
after F (gal.)	14	after F (gal.) 6.7	after F (gal.) 560
after (gal.)		after (gal.)	after (gal.)

Water Sample:

Time Collected: 1730

Physical Appearance

Color	Light Gray
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No Sheen or DNAPL

Dissolved Oxygen: 11 ppm

Turbidity	Readings
77.5 Standard	77.5
8.5 Standard	9
Initial	
after 0.66 (gal)	>100
after 1.33 (gal)	>100
after 2 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Metals collected 5/26/93, 0745.
M&E Collected Split.
- Final Field Measurements taken on 5/26/93.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/23/93	Weather	Sunny 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	SBW-21 S1-2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	20.10	ft.
Depth of Water *	17.58	ft.
Length of Water Column	2.52	ft.
Volume of Water In Well	0.41	gal.(s)
3X Volume of Water in Well	1.23	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1.5 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		Initial	15
after	0.5 (gal.)		15
after	1.0 (gal.)		15
after	1.5 (gal.)		15
after	F (gal.)		17
after	(gal.)		

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.8
		Initial	6.0
after	0.5 (gal.)		6.5
after	1.0 (gal.)		6.5
after	1.5 (gal.)		6.6
after	F (gal.)		6.8
after	(gal.)		

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1420
		Initial	570
after	0.5 (gal.)		500
after	1.0 (gal.)		510
after	1.5 (gal.)		520
after	F (gal.)		540
after	(gal.)		

Water Sample:

Time Collected: 08:50,11:20,11:30,13:15,13:30

Physical Appearance

Color	Light Brown
Odor	Slight Musty
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 7.2 mg/l

Turbidity Readings			
Standard			
Standard			
		Initial	>100
after	0.5 (gal)		>100
after	1.0 (gal)		>100
after	1.5 (gal)		>100
after	F (gal)		>100
after	(gal)		

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.8 ppm.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	11/29/93	Weather	SUNNY - 45°
Site Name	BURGESS BROS SF	Well #/Sample Name	W03S2 (T)
Site Location	BENNINGTON VT.	Project #	5271.002
sonnel	MAC, TEDD FISKE	Excavation Method	SS Bailer

Depth of Well *	30	ft.
Depth of Water *	1.61	ft.
Length of Water Column	28.39	ft.
Volume of Water in Well	4.63	gal.(s)
3X Volume of Water in Well	13.89	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 14 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings				pH Readings				Conductivity Readings			
				4.0 Standard			4	84 S Standard			70
				7.0 Standard			—	1000 ~~1413~~ S Standard			920
				10.0 Standard			10				
		initial	~~6.2~~			initial	~~9.2~~			initial	~~[illegible]~~
after	4.5	(gal.)	6.2	after	4.5	(gal.)	4.6	after	4.5	(gal.)	160
after	9.0	(gal.)	6.8	after	9.0	(gal.)	4.3	after	9.0	(gal.)	160
after	13.5	(gal.)	6.1	after	13.5	(gal.)	9.3	after	13.5	(gal.)	162
after		(gal.)		after		(gal.)		after		(gal.)	
after		(gal.)		after		(gal.)		after		(gal.)	

ater Sample:

Time Collected 10:55

Physical Appearance — Dissolved Oxygen: —

Color	CLEAR
Odor	NONE
Turbidity (> 100 NTUs)	MUD
Sheen/Free Product	

Turbidity			Reading
		Standard	
		Standard	
		Initial	
after	4.5	(gal)	>100
after	9.0	(gal)	>100
after	13.5	(gal)	>100
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/27/93	Weather	Sunny, Cool 65 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W03S2-1 (T)
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	30	ft.
Depth of Water *	1	ft.
Length of Water Column	29	ft.
Volume of Water in Well	4.7	gal.(s)
3X Volume of Water in Well	14.1	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 15 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings (C)	pH	Readings	Conductivity (uS)	Readings
		4.0 Standard	4.0	447.1 uS Standard	450
		7.0 Standard	7.0	1413 uS Standard	
	initial	10	9.8	initial	220
	initial		7.4		
after 5 (gal.)		7	7.8	5	200
after 10 (gal.)		8	7.8	10	190
after 15 (gal.)		9	7.8	15	190
after F (gal.)		9	7.7	F	140
after (gal.)					

Water Sample:

Time Collected: 1650

Physical Appearance

Color	Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 9.2 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Initial depth of well from TOC estimated in the field,
actual depth is 28.2 ft.
- PID = BKGD
- W-03/S2 = W-03T

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/24/93	Weather	Sunny 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W03S2-2 (T)
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	28.0	ft.
Depth of Water *	1.21	ft.
Length of Water Column	26.79	ft.
Volume of Water in Well	4.37	gal.(s)
3X Volume of Water in Well	13.11	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 13.2 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		Initial	9
after	4.4	(ga	10
after	8.8	(gal.)	10
after	13.2	(gal.)	10
after	F	(gal.)	10
after		(gal.)	

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.8
		Initial	7.9
after	4.4	(gal.)	7.9
after	8.8	(gal.)	7.9
after	13.2	(gal.)	7.8
after	F	(gal.)	7.9
after		(gal.)	

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1410
		Initial	200
after	4.4	(gal.)	200
after	8.8	(gal.)	190
after	13.2	(gal.)	200
after	F	(gal.)	200
after		(gal.)	

Water Sample:

Time Collected: 09:10

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 8.8 mg/l

Turbidity Readings			
Standard			
Standard			
		Initial	Low
after	4.4	(gal)	>100
after	8.8	(gal)	>100
after	13.2	(gal)	>100
after	F	(gal)	>100
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

- HNu = 0.6 ppm.
- W03/S2 = W03T

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/24/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W23T-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	8.1	ft.
Depth of Water *	2.22	ft.
Length of Water Column	5.88	ft.
Volume of Water in Well	0.96	gal.(s)
3X Volume of Water in Well	3	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 4 gal.(s)
D.J well go dry? No

* Measurements taken from: [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) GRADE

Water parameters:

Temperature (C) Readings	
initial	
after 1 (gal.)	10
after 2 (gal.)	10
after 3 (gal.)	8
after 4 (gal.)	8
after F (gal.)	10

pH Readings	
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.7
initial	
after 1 (gal.)	7.3
after 2 (gal.)	7.4
after 3 (gal.)	7.6
after 4 (gal.)	7.6
after F (gal.)	7.5

Conductivity (uS) Readings	
447.1 uS Standard	450
1413 uS Standard	1420
initial	
after 1 (gal.)	150
after 2 (gal.)	140
after 3 (gal.)	140
after 4 (gal.)	140
after F (gal.)	140

Water Sample:

Time Collected: 1430

Physical Appearance

Color	Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No or DNAPL

Dissolved Oxygen: 12 ppm

Turbidity Readings	
Standard	
Standard	
Initial	
after 1 (gal.)	>100
after 2 (gal.)	>100
after 3 (gal.)	>100
after 4 (gal.)	>100
after F (gal.)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/22/93	Weather	Overcast 65
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W23T-2
Site Location	Bennington,Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	8.10	ft.
Depth of Water *	2.44	ft.
Length of Water Column	5.66	ft.
Volume of Water in Well	.92	gal.(s)
3X Volume of Water in Well	2.76	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3 gal.(s)
Did well go dry? Yes

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) GRADE

Water parameters:

	Temperature Readings	pH	Readings	Conductivity	Readings
		4.0 Standard	4.0		
		7.0 Standard	7.2	84 uS Standard	90
		10.0 Standard	10.0	1413 uS Standard	1420
	initial 15	initial	7.5	initial	130
after 1 (gal.)	12	after 1 (gal.)	7.6	after 1 (gal.)	120
after 2 (gal.)	11	after 2 (gal.)	7.6	after 2 (gal.)	90
after 3 (gal.)	11	after 3 (gal.)	7.6	after 3 (gal.)	90
after F (gal.)	11	after F (gal.)	7.6	after F (gal.)	80
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected: 10:30

Physical Appearance — Dissolved Oxygen: 9.4 mg/l

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 1 (gal)	>100
after 2 (gal)	>100
after 3 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	5/24/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W24T-1
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	15.8	ft.
Depth of Water *	2.84	ft.
Length of Water Column	12.96	ft.
Volume of Water in Well	2.11	gal.(s)
3X Volume of Water in Well	6.33	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6.3 gal.(s)
Did well go dry? Yes

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) GRADE

Water parameters:

Temperature (C) Readings			pH Readings			Conductivity (uS) Readings		
			4.0 Standard		4.0	447.1 uS Standard		450
			7.0 Standard		7.0	1413 uS Standard		1420
			10.0 Standard		9.7			
		Initial			Initial			Initial
after	2 (gal.)	9	after 2 (gal.)		7.7	after 2 (gal.)		180
after	4.3 (gal.)	9	after 4.3 (gal.)		7.9	after 4.3 (gal.)		180
after	6.3 (gal.)	8	after 6.3 (gal.)		7.9	after 6.3 (gal.)		180
after	F (gal.)	9	after F (gal.)		7.8	after F (gal.)		190
after	(gal.)		after (gal.)			after (gal.)		

Water Sample:

Time Collected: 1515

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No or DNAPL

Dissolved Oxygen: 12 ppm

Turbidity Readings		
	Standard	
	Standard	
	Initial	
after 2	(gal)	>100
after 4.3	(gal)	>100
after 6.3	(gal)	>100
after F	(gal)	>100
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Well recovers slowly.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/22/93	Weather	Overcast 70
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-24T - 2
Site Location	Bennington, Vt.	Project #	5271.001
Personnel	Scott/Andy	Excavation Method	Bailer

Depth of Well *	15.8	ft.
Depth of Water *	2.75	ft.
Length of Water Column	13.05	ft.
Volume of Water in Well	2.12	gal.(s)
3X Volume of Water in Well	6.36	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6 gal.(s)
Did well go dry? Yes

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) GRADE

Water parameters:

Temperature			Readings
		initial	16
after	2.12	(gal.)	11
after	4.24	(gal.)	11
after	6.00	(gal.)	10
after	F	(gal.)	11
after		(gal.)	

pH			Readings
4.0 Standard			4.0
7.0 Standard			7.2
10.0 Standard			10.0
		initial	7.9
after	2.12	(gal.)	7.9
after	4.24	(gal.)	7.9
after	6.00	(gal.)	8.0
after	F	(gal.)	8.1
after		(gal.)	

Conductivity			Readings
84 uS Standard			90
1413 uS Standard			1420
		initial	130
after	2.12	(gal.)	120
after	4.24	(gal.)	130
after	6.00	(gal.)	120
after	F	(gal.)	130
after		(gal.)	

Water Sample:

Time Collected: 11.15

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 10.2 mg/l

Turbidity			Readings
Standard			
Standard			
		Initial	Low
after	2.12	(gal)	>100
after	4.24	(gal)	>100
after	6.00	(gal)	>100
after	F	(gal)	>100
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/02/93	Weather	Sunny 60 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04SI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	SS Bailer

Depth of Well *	112.11	ft.
Depth of Water *	7.93	ft.
Length of Water Column	104.18	ft.
Volume of Water in Well	16.98	gal.(s)
3X Volume of Water in Well	50.94	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 51 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 480
		7.0 Standard 7.0	1000 uS Standard 1000
		10.0 Standard 9.9	initial 160
	initial 11	initial 9.3	
after 17 (gal.)	10	after 17 (gal.) 9.6	after 17 (gal.) 160
after 34 (gal.)	11	after 34 (gal.) 9.0	after 34 (gal.) 160
after 51 (gal.)	10	after 51 (gal.) 9.2	after 51 (gal.) 150
after F (gal.)	11	after F (gal.) 9.3	after F (gal.) 160
after (gal.)		after (gal.)	after (gal.)

Water Sample:

Time Collected: 1305

Physical Appearance

Dissolved Oxygen: 10.5 mg/l

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity Readings	
75.5 Standard	75.5
8.5 Standard	9
Initial	25
after Vol.#1 (gal)	>100
after Vol.#2 (gal)	>100
after Vol.#3 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- Perform Hardness Analysis
- Blind Dup met F/ (2)
- #3-1 SV (2)
- #3-1 V (3)

O'BRIEN & GERE ENGINEERS, INC.

Ground Water Sampling Log

Date	6/28/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04SI-2
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	SS Bailer

Depth of Well *	112.11	ft.
Depth of Water *	8.82	ft.
Length of Water Column	103.29	ft.
Volume of Water in Well	17	gal.(s)
3X Volume of Water in Well	51	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 51 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH	Readings	Conductivity	Readings
		4.0 Standard	4.0		
		7.0 Standard	7.0	84 uS Standard	90
		10.0 Standard	9.7	1413 uS Standard	1420
	initial 13	initial	9.6	initial	150
after 17 (gal.)	11	after 17 (gal.)	9.5	after 17 (gal.)	130
after 34 (gal.)	11	after 34 (gal.)	9.2	after 34 (gal.)	140
after 51 (gal.)	12	after 51 (gal.)	9.3	after 51 (gal.)	140
after F (gal.)	11	after F (gal.)	9.2	after F (gal.)	150
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected: 11:30

Physical Appearance

Dissolved Oxygen: 10.4 mg/l

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity	Readings
Standard	
Standard	
Initial	Low
after 17 (gal)	>100
after 34 (gal)	>100
after 51 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/02/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04SI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	112	ft.
Depth of Water *	7.93	ft.
Length of Water Column	104.07	ft.
Volume of Water in Well	16.96	gal.(s)
3X Volume of Water in Well	50.89	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 51 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1000 uS Standard 1000
		10.0 Standard 9.9	initial 150
	initial 9	initial 8.9	
after 17 (gal.)	9	after 17 (gal.) 8.7	after 17 (gal.) 140
after 34 (gal.)	10	after 34 (gal.) 8.1	after 34 (gal.) 150
after 51 (gal.)	10	after 51 (gal.) 8.3	after 51 (gal.) 150
after F (gal.)	10	after F (gal.) 8.0	after F (gal.) 150
after (gal.)		after (gal.)	after (gal.)

Water Sample:

Time Collected: 1200

Physical Appearance

Dissolved Oxygen: 11.0 mg/l

Color	Cloudy
Odor	None
Turbidity (> 100 NTUs)	
Sheen/Free Product	None

Turbidity Readings	
75.5 Standard	75.5
8.5 Standard	9
Initial	19
after Vol.#1 (gal)	56
after Vol.#2 (gal)	62
after Vol.#3 (gal)	66
after F (gal)	47
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Cr VI Only

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/04/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04DI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	Bailer

Depth of Well *	157.05	ft.
Depth of Water *	3.9	ft.
Length of Water Column	153.15	ft.
Volume of Water in Well	24.96	gal.(s)
3X Volume of Water in Well	74.90	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 64 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature (C) Readings				pH Readings				Conductivity (uS) Readings			
				4.0 Standard			4.0	447.1 uS Standard			500
				7.0 Standard			7.0	1000 uS Standard			1000
				10.0 Standard			9.9				
		initial	10		initial		7.5		initial		140
after	25	(gal.)	12	after	25	(gal.)	7.5	after	25	(gal.)	130
after	50	(gal.)	15	after	50	(gal.)	6.7	after	50	(gal.)	130
after	64	(gal.)	14	after	64	(gal.)	6.8	after	64	(gal.)	120
after	F	(gal.)	12	after	F	(gal.)	6.8	after	F	(gal.)	90
after		(gal.)		after		(gal.)		after		(gal.)	

Water Sample:

Time Collected: 1500

Physical Appearance

Color	Cloudy
Odor	None
Turbidity (> 100 NTUs)	14
Sheen/Free Product	None

Dissolved Oxygen: 10.8 mg/l

Turbidity Readings			
75.5	Standard		75.5
8.5	Standard		9
	Initial		
after	50	(gal)	18
after	64	(gal)	29
after	F	(gal)	14
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Perform Hardness Analysis
M&E Split 8240,8270,Metals F/UnF

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/29/93	Weather	
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04DI-2
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	Bailer

Depth of Well *	157.0	ft.
Depth of Water *	5.25	ft.
Length of Water Column	151.8	ft.
Volume of Water in Well	24.74	gal.(s)
3X Volume of Water in Well	74.23	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 32 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		initial	13
after	25	(gal.)	14
after	32	(gal.)	15
after	F	(gal.)	10
after		(gal.)	
after		(gal.)	

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.7
		initial	7.7
after	25	(gal.)	7.6
after	32	(gal.)	7.5
after	F	(gal.)	7.6
after		(gal.)	
after		(gal.)	

Conductivity Readings			
84 uS Standard			100
1413 uS Standard			1410
		initial	100
after	25	(gal.)	90
after	32	(gal.)	90
after	F	(gal.)	100
after		(gal.)	
after		(gal.)	

Water Sample:

Time Collected: 15 30

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	Very Low
Sheen/Free Product	None

Dissolved Oxygen: 9.8 mg/l

Turbidity Readings			
		Standard	
		Standard	
		Initial	
after		(gal)	
after		(gal)	
after		(gal)	
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/03/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W07SI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	SS Bailer

Depth of Well *	118.56	ft.
Depth of Water *	50.92	ft.
Length of Water Column	67.64	ft.
Volume of Water in Well	11.03	gal.(s)
3X Volume of Water in Well	33.08	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 16 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings
initial	14
after 11 (gal.)	18
after 16 (gal.)	11
after F (gal.)	11
after ___ (gal.)	
after ___ (gal.)	

	pH Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	10.0
initial	8.2
after 11 (gal.)	8.2
after 16 (gal.)	8.2
after F (gal.)	8.2
after ___ (gal.)	
after ___ (gal.)	

	Conductivity (uS) Readings
447.1 uS Standard	490
1000 uS Standard	1000
initial	160
after 11 (gal.)	170
after 16 (gal.)	160
after F (gal.)	160
after ___ (gal.)	
after ___ (gal.)	

Water Sample:

Time Collected: 1700

Physical Appearance

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 11.0 mg/l

	Turbidity Readings
75.5 Standard	75
8.5 Standard	8.5
Initial	20
after 11 (gal)	>100
after 16 (gal)	>100
after F (gal)	>100
after ___ (gal)	
after ___ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Pumped at 1/3 gal./min.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/30/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-07SI-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	SS Bailer

Depth of Well *	118.56	ft.
Depth of Water *	48.28	ft.
Length of Water Column	70.28	ft.
Volume of Water in Well	11.46	gal.(s)
3X Volume of Water in Well	34.37	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 14 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			
		initial	10
after	14 (gal.)		12
after	F (gal.)		12
after	(gal.)		
after	(gal.)		
after	(gal.)		

pH Readings			
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.7
		initial	8.2
after	14 (gal.)		8.1
after	F (gal.)		8.1
after	(gal.)		
after	(gal.)		
after	(gal.)		

Conductivity Readings			
84 uS Standard			90
1413 uS Standard			1400
		initial	150
after	14 (gal.)		190
after	F (gal.)		170
after	(gal.)		
after	(gal.)		
after	(gal.)		

Water Sample:

Time Collected: 14 30

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 6.1 mg/l

Turbidity Readings			
		Standard	
		Standard	
		Initial	
after	(gal)		
after	(gal)		
after	(gal)		
after	(gal)		
after	(gal)		

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/03/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W07DI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	SS Bailer

Depth of Well *	237.38	ft.
Depth of Water *	215.91	ft.
Length of Water Column	21.47	ft.
Volume of Water in Well	3.5	gal.(s)
3X Volume of Water in Well	10.5	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.5 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature (C) Readings			pH Readings			Conductivity (uS) Readings		
			4.0 Standard			447.1 uS Standard	490	
			7.0 Standard			1000 uS Standard	1000	
			10.0 Standard					
		initial 11			initial 12.5			initial >2000
after	3.5 (gal.)	10	after	3.5 (gal.)	12	after	3.5 (gal.)	>2000
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected: _____

Physical Appearance

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	>100 NTUs
Sheen/Free Product	None

Dissolved Oxygen: No Sample Taken.

Turbidity Readings			
		Standard	
		Standard	
		Initial	>100
after	3.5 (gal)		>100
after	(gal)		
after	(gal)		
after	(gal)		
after	(gal)		

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
Bailed to one foot from bottom.
No sample taken because the water did not recover.
- Well empty at 1715, 6/3/93.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/01/93	Weather	Cloudy 60 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W08SI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	131.58	ft.
Depth of Water *	35.19	ft.
Length of Water Column	96.39	ft.
Volume of Water in Well	15.71	gal.(s)
3X Volume of Water in Well	47.13	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 22 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature (C)	Readings
initial	10
after 15 (gal.)	10
after 22 (gal.)	10
after 45 (gal.)	
after F (gal.)	10
after (gal.)	

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.9
initial	12.3
after 15 (gal.)	12.1
after 22 (gal.)	12.0
after 45 (gal.)	
after F (gal.)	11.9
after (gal.)	

Conductivity (uS)	Readings
447.1 uS Standard	450
1413 uS Standard	
initial	>2000
after 15 (gal.)	>2000
after 22 (gal.)	>2000
after 45 (gal.)	
after F (gal.)	>2000
after (gal.)	

Vater Sample:

ime Collected: 1300

Physical Appearance

Color: Clear
Odor: None
Turbidity (> 100 NTUs): 37
Sheen/Free Product: None

Dissolved Oxygen: 13.5 mg/l

Turbidity	Readings
75.5 Standard	75
8.5 Standard	9
Initial	16
after 15 (gal)	31
after 22 (gal)	>100
after 45 (gal)	
after F (gal)	37
after (gal)	

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- PID = BKGD
- MS/MD Taken at this location

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/29/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-08SI-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	SS Bailer

Depth of Well *	131.75	ft.
Depth of Water *	36.59	ft.
Length of Water Column	95.16	ft.
Volume of Water in Well	15.51	gal.(s)
3X Volume of Water in Well	46.53	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 20.0 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings				pH Readings				Conductivity Readings			
				4.0 Standard		4.0		84 uS Standard		90	
				7.0 Standard		7.0		1413 uS Standard		1400	
		Initial	11	10.0 Standard		9.7		Initial		>2000	
				Initial		11.9					
after	15.5	(gal.)	11	after	15.5	(gal.)	11.9	after	15.5	(gal.)	>2000
after	20.0	(gal.)	10	after	20.0	(gal.)	11.9	after	20.0	(gal.)	>2000
after	F	(gal.)	11	after	F	(gal.)	11.5	after	F	(gal.)	>2000
after		(gal.)		after		(gal.)		after		(gal.)	
after		(gal.)		after		(gal.)		after		(gal.)	

Water Sample:

Time Collected: 11:25

Physical Appearance

Color	Slightly Cloudy
Odor	None
Turbidity (> 100 NTUs)	Low
Sheen/Free Product	None

Dissolved Oxygen: 8.65 mg/l

Turbidity Readings			
		Standard	
		Standard	
		Initial	
after		(gal)	
after		(gal)	
after		(gal)	
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.
- Flocculated white material develops after purging and floats to surface.
- MS/MSD for 8240, Metals collected.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/02/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W09SI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	109.55	ft.
Depth of Water *	7.22	ft.
Length of Water Column	102.33	ft.
Volume of Water in Well	16.68	gal.(s)
3X Volume of Water in Well	50.04	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 51 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 480
		7.0 Standard: 7.0	1000 uS Standard: 1000
		10.0 Standard: 9.9	
	Initial: 14	initial: 8.2	initial: 170
after 17 (gal.)	9	7.7	160
after 34 (gal.)	10	7.6	160
after 51 (gal.)	11	7.8	160
after F (gal.)	9	7.8	170
after (gal.)			

Vater Sample:

ime Collected: 1830

Physical Appearance

Dissolved Oxygen: 6.5 mg/l

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity Readings			
Standard			
Standard			
Initial			
after	17	(gal)	>100
after	34	(gal)	>100
after	51	(gal)	>100
after	F	(gal)	>100
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH		Conductivity

NOTES:
M&E Collected Split & F. Dup.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/29/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09SI-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	SS Bailer

Depth of Well *	109.55	ft.
Depth of Water *	8.48	ft.
Length of Water Column	101.07	ft.
Volume of Water in Well	16.47	gal.(s)
3X Volume of Water in Well	49.42	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 50 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings
initial	10
after 16.5 (gal.)	10
after 33 (gal.)	11
after 50.5 (gal.)	10
after F (gal.)	11
after (gal.)	

	pH Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.7
initial	7.3
after 16.5 (gal.)	7.4
after 33 (gal.)	7.6
after 50.5 (gal.)	7.4
after F (gal.)	7.3
after (gal.)	

	Conductivity Readings
84 uS Standard	100
1413 uS Standard	1410
initial	170
after 16.5 (gal.)	170
after 33 (gal.)	160
after 50.5 (gal.)	150
after F (gal.)	140
after (gal.)	

Water Sample:

Time Collected: 10:45

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 4.4 mg/l

	Turbidity Readings
Standard	
Standard	
Initial	
after 16.5 (gal)	>100
after 33 (gal)	>100
after 50.5 (gal)	>100
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.2 ppm.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/01/93	Weather	Partly Sunny(approx 65 F)
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W25SI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	130.5	ft.
Depth of Water *	14.7	ft.
Length of Water Column	115.8	ft.
Volume of Water in Well	18.9	gal.(s)
3X Volume of Water in Well	56.6	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 57 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 450
		7.0 Standard 7.0	1413 uS Standard
		10.0 Standard 9.9	
	initial 8	initial 11.1	initial 620
after 19 (gal.)	10	after 19 (gal.) 11.3	after 19 (gal.) 610
after 38 (gal.)	9	after 38 (gal.) 11.1	after 38 (gal.) 480
after 57 (gal.)	9	after 57 (gal.) 10.9	after 57 (gal.) 470
after F (gal.)	9	after F (gal.) 11.0	after F (gal.) 480
after (gal.)		after (gal.)	after (gal.)

Water Sample:

Time Collected: 1950

Physical Appearance

Color	Brown
Odor	No
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No

Dissolved Oxygen: 13.0 ppm

Turbidity Readings	
77.5 Standard	77.5
8.5 Standard	9.0
Initial	39
after 19 (gal)	39
after 38 (gal)	>100
after 57 (gal)	>100
after F (gal)	>100
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/29/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-25SI-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	SS Bailer

Depth of Well *	130.5	ft.
Depth of Water *	15.96	ft.
Length of Water Column	114.54	ft.
Volume of Water in Well	18.67	gal.(s)
3X Volume of Water in Well	56.01	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 60 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH Readings	Conductivity Readings
		4.0 Standard 4.0	
		7.0 Standard 7.0	84 uS Standard 90
		10.0 Standard 9.7	1413 uS Standard 1410
	Initial 16	Initial 10.7	Initial 290
after 20 (gal.)	12	after 20 (gal.) 10.3	after 20 (gal.) 250
after 40 (gal.)	12	after 40 (gal.) 11.0	after 40 (gal.) 480
after 60 (gal.)	12	after 60 (gal.) 11.0	after 60 (gal.) 440
after F (gal.)	12	after F (gal.) 10.9	after F (gal.) 420
after (gal.)		after (gal.)	after (gal.)

Water Sample:

Time Collected: 14 45

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Dissolved Oxygen: 7.78 mg/l

Turbidity Readings	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/02/93	Weather	Partly Cloudy 60 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W25DI-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	Pete Loretto	Excavation Method	Grundfos Redi-Flow Pump

Depth of Well *	203	ft.
Depth of Water *	17.24	ft.
Length of Water Column	185.76	ft.
Volume of Water in Well	30.27	gal.(s)
3X Volume of Water in Well	91	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 45 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard: 4.0	447.1 uS Standard: 480
		7.0 Standard: 7.0	1000 uS Standard: 1000
		10.0 Standard: 9.9	
initial	9	11.1	490
after 30 (gal.)	11	11.4	960
after 45 (gal.)	10	11.2	730
after ____ (gal.)			
after ____ (gal.)			
after ____ (gal.)			

Water Sample:

Time Collected: 1310

Physical Appearance — Dissolved Oxygen: 8.2 ppm

Color	Lt. Tan, Cloudy
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity Readings	
Standard	
Standard	
Initial	>100
after 30 (gal)	>100
after 45 (gal)	>100
after ____ (gal)	
after ____ (gal)	
after ____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/29/93	Weather	Sunny-75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-25DI-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	SS Bailer

Depth of Well *	203	ft.
Depth of Water *	18.72	ft.
Length of Water Column	184.78	ft.
Volume of Water in Well	30	gal.(s)
3X Volume of Water in Well	90	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 42 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature			Readings
		initial	10
after	21	(gal.)	11
after	27	(gal.)	11
after	42	(gal.)	13
after	F	(gal.)	10
after		(gal.)	

pH			Readings
4.0 Standard			4.0
7.0 Standard			7.0
10.0 Standard			9.7
		initial	11.1
after	21	(gal.)	11.3
after	27	(gal.)	11.3
after	42	(gal.)	11.2
after	F	(gal.)	11.4
after		(gal.)	

Conductivity			Readings
84 uS Standard			90
1413 uS Standard			1410
		initial	680
after	21	(gal.)	870
after	27	(gal.)	960
after	42	(gal.)	1000
after	F	(gal.)	910
after		(gal.)	

Water Sample:

Time Collected: 18.00

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	Very Low
Sheen/Free Product	None

Dissolved Oxygen: 7.58 mg/l

Turbidity			Readings
		Standard	
		Standard	
		Initial	
after		(gal)	
after		(gal)	
after		(gal)	
after		(gal)	
after		(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/03/93	Weather	Sunny 65 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W01B-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	PL	Excavation Method	GRF Pump

Depth of Well *	290	ft.
Depth of Water *	50	ft.
Length of Water Column	240	ft.
Volume of Water in Well	157	gal.(s)
3X Volume of Water in Well	470	gal.(s)
**(See Note Below)		

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 495 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings (C)	pH	Readings	Conductivity (uS)	Readings
		4.0 Standard	4.0	447.1 uS Standard	490
		7.0 Standard	7.0	1000 uS Standard	1000
		10.0 Standard	10.0		
	Initial 9	initial	8	initial	130
after 160 (gal.)	10	after 160 (gal.)	7.9	after 160 (gal.)	110
after 320 (gal.)	11	after 320 (gal.)	7.7	after 320 (gal.)	90
after 495 (gal.)	11	after 495 (gal.)	8.5	after 495 (gal.)	130
after 670 (gal.)	11	after 670 (gal.)	7.1	after 670 (gal.)	100
after 810 (gal.)	11	after 810 (gal.)	7.2	after 810 (gal.)	110
after F (gal.)	10	after F (gal.)	7.4	after F	90

Water Sample:

Time Collected: 1635

Physical Appearance — Dissolved Oxygen: 9 mg/l

Color	Cloudy
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity		Readings
75.5	Standard	75
8.5	Standard	9
	Initial	
after 160	(gal)	>100
after 320	(gal)	>100
after 495	(gal)	>100
after 670	(gal)	35
after 810	(gal)	33
after F	(gal)	25

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- M&E Collected Split 8240,8270,Metals
- **=Actual depth of well is 342 feet from inner casing. One well volume is actually 175 gal.(290 feet of 4 inch casing & 50 feet of 3 inch rock . Three volumes is actually 525 gallons.)

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/28/93	Weather	Sunny 75
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W01B-2
Site Location	Woodford & Bennington VT.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	Pump

Depth of Well *	342	ft.
Depth of Water *	55.15	ft.
Length of Water Column	286.85	ft.
Volume of Water in Well	172	gal.(s)
3X Volume of Water in Well	515	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 515 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature		Readings
initial		13
after 172	(gal.)	13
after 344	(gal.)	12
after 516	(gal.)	11
after Final	(gal.)	11

pH		Readings
4.0 Standard		4.0
7.0 Standard		7.0
10.0 Standard		9.7
initial		7.4
after 172	(gal.)	7.2
after 344	(gal.)	7.3
after 516	(gal.)	7.3
after Final	(gal.)	7.2

Conductivity		Readings
84 uS Standard		90
1413 uS Standard		1420
initial		100
after 172	(gal.)	100
after 344	(gal.)	100
after 516	(gal.)	90
after Final	(gal.)	90

Water Sample:

Time Collected: 16 20

Physical Appearance

Color	Clear
Odor	No
Turbidity (> 100 NTUs)	Low
Sheen/Free Product	No

Dissolved Oxygen: 8.7 mg/l

Turbidity		Readings
Standard		
Standard		
Initial		
after	(gal)	
after	(gal)	
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/04/93	Weather	Sunny 70 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W04B-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/MAR	Excavation Method	G. Pump

Depth of Well *	478	ft.
Depth of Water *	11.5	ft.
Length of Water Column	466.5	ft.
Volume of Water in Well	171.2	gal.(s)
3X Volume of Water in Well	513.6	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 514 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature (C) Readings			pH Readings			Conductivity (uS) Readings		
			4.0 Standard		4.0	447.1 uS Standard		500
			7.0 Standard		7.0	1000 uS Standard		1000
			10.0 Standard		9.9			
	initial	8	initial		6.5	initial		70
after 171	(gal.)	10	after 171	(gal.)	6.0	after 171	(gal.)	110
after 342	(gal.)	11	after 342	(gal.)	6.9	after 342	(gal.)	70
after 514	(gal.)	11	after 514	(gal.)	7.1	after 514	(gal.)	70
after F	(gal.)	10	after F	(gal.)	7.3	after F	(gal.)	90
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected: 1545

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	7
Sheen/Free Product	None

Dissolved Oxygen: 11.2 mg/l

Turbidity Readings		
75.5	Standard	75.5
8.5	Standard	9
	Initial	20
after Vol.#1	(gal)	11
after Vol.#2	(gal)	11
after Vol.#3	(gal)	10
after F	(gal)	7
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/29/93	Weather	
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-04B-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	Pump

Depth of Well *	478	ft.
Depth of Water *	16.49	ft.
Length of Water Column	461.5	ft.
Volume of Water in Well	169.37	gal.(s)
3X Volume of Water in Well	508.11	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 510 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH	Readings	Conductivity	Readings
		4.0 Standard	4.0		
		7.0 Standard	7.0	84 uS Standard	100
		10.0 Standard	9.7	1413 uS Standard	1410
	initial 11	initial	7.0	initial	110
after 170 (gal.)	10	after 170 (gal.)	7.1	after 170 (gal.)	120
after 340 (gal.)	10	after 340 (gal.)	7.1	after 340 (gal.)	120
after 510 (gal.)	11	after 510 (gal.)	7.2	after 510 (gal.)	110
after F (gal.)	11	after F (gal.)	7.1	after F (gal.)	110
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected: 11:10

Physical Appearance — Dissolved Oxygen: 10.3 mg/l

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	Very Low
Sheen/Free Product	None

Turbidity	Readings
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

OTES:

- HNu 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/03/93	Weather	Sunny 70 F
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W08B-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	SS Bailer

Depth of Well *	449.36**	ft.
Depth of Water *	37.73	ft.
Length of Water Column	411.63	ft.
Volume of Water in Well	140.87	gal.(s)
3X Volume of Water in Well	422.1	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 433 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature (C) Readings	pH Readings	Conductivity (uS) Readings
		4.0 Standard 4.0	447.1 uS Standard 490
		7.0 Standard 7.0	1000 uS Standard 1000
		10.0 Standard 10.0	
initial	11	initial 9.3	initial 130
after 151 (gal.)	11	after 151 (gal.) 7.5	after 151 (gal.) 110
after 292 (gal.)	10	after 292 (gal.) 7.4	after 292 (gal.) 110
after 433 (gal.)	10	after 433 (gal.) 7.4	after 433 (gal.) 120
after ____ (gal.)		after ____ (gal.)	after ____ (gal.)
after ____ (gal.)		after ____ (gal.)	after ____ (gal.)

Water Sample:

Time Collected: 1300

Physical Appearance

Color	Cloudy
Odor	None
Turbidity (> 100 NTUs)	20
Sheen/Free Product	None

Dissolved Oxygen: 9.0 mg/l

		Readings
75.5	Standard	75
8.4	Standard	9
	Initial	>100
after 151	(gal)	>100
after 292	(gal)	20
after 433	(gal)	20
after ____	(gal)	
after ____	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
** = 400 feet of 3 inch & 50 feet of 2 inch.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	7/01/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-08B-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	Pump

Depth of Well *	449.36	ft.
Depth of Water *	42.45	ft.
Length of Water Column	406.91	ft.
Volume of Water in Well	149.33	gal.(s)
3X Volume of Water in Well	448	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 450 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature	Readings
Initial	13
after 150 (gal.)	11
after 300 (gal.)	11
after 450 (gal.)	11
after F (gal.)	11
after (gal.)	

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.7
Initial	7.9
after 150 (gal.)	7.6
after 300 (gal.)	7.5
after 450 (gal.)	7.5
after F (gal.)	7.5
after (gal.)	

Conductivity	Readings
84 uS Standard	90
1413 uS Standard	1400
Initial	?
after 150 (gal.)	120
after 300 (gal.)	100
after 450 (gal.)	110
after F (gal.)	110
after (gal.)	

Water Sample:

Time Collected: 16:05

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	8
Sheen/Free Product	None

Dissolved Oxygen: 8.2 mg/l

Turbidity	Readings
73 NTU Standard	73
8.4 Standard	9
Initial	14.0
after 150 (gal)	46
after 300 (gal)	23
after 450 (gal)	12
after F (gal)	8
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/02/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W09B-1
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	Pump

Depth of Well *	466	ft.
Depth of Water *	6.15	ft.
Length of Water Column	459.85	ft.
Volume of Water in Well	169	gal.(s)
3X Volume of Water in Well	506	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 506 gal.(s)
Did well go dry? No

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) Grade

Water parameters:

Temperature (C)	Readings
initial	10
after 80 (gal.)	11
after 169 (gal.)	10
after 338 (gal.)	10
after 506 (gal.)	10
after (gal.)	

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.9
initial	9.5
after 80 (gal.)	8.1
after 169 (gal.)	8.1
after 338 (gal.)	8.0
after 506 (gal.)	7.9
after (gal.)	

Conductivity (uS)	Readings
447.1 uS Standard	447
1000 uS Standard	1000
initial	120
after 80 (gal.)	120
after 169 (gal.)	120
after 338 (gal.)	120
after 506 (gal.)	120
after (gal.)	

Vater Sample:

ime Collected: 0725

Physical Appearance

Color	Light Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	No

Dissolved Oxygen: 11.8 mg/l

Turbidity	Readings
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH		Conductivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	7/01/93	Weather	Sunny 80
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09B-2
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	ADC/SAM	Excavation Method	Pump

Depth of Well *	466	ft.
Depth of Water *	9.78	ft.
Length of Water Column	456.2	ft.
Volume of Water in Well	156.6	gal.(s)
3X Volume of Water in Well	469.8	gal.(s)

(Actual depth of well - 467.5 feet)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 470 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings				pH Readings				Conductivity Readings			
				4.0 Standard		4.0					
				7.0 Standard		7.0		84 uS Standard		90	
				10.0 Standard		9.7		1413 uS Standard		1400	
		Initial	10		Initial	7.8			Initial	120	
after	156 (gal.)		11	after	156 (gal.)	7.4		after	156 (gal.)	110	
after	312 (gal.)		11	after	312 (gal.)	7.4		after	312 (gal.)	100	
after	470 (gal.)		11	after	470 (gal.)	7.4		after	470 (gal.)	100	
after	F (gal.)		10	after	F (gal.)	7.5		after	F (gal.)	100	
after	(gal.)			after	(gal.)			after	(gal.)		

Water Sample:

Time Collected: 10:25

Physical Appearance

Dissolved Oxygen: 8.4 mg/l

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	7.5
Sheen/Free Product	None

Turbidity Readings			
	Standard		
	Standard		
	Initial	23	
after	156 (gal)	7	
after	312 (gal)	5.8	
after	470 (gal)	3.2	
after	F (gal)	5.5	
after	(gal)		

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- HNu = 0.0 ppm.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/04/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Dickinson - 1
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	Existing Pump

Depth of Well *	_____	ft.
Depth of Water *	_____	ft.
Length of Water Column	_____	ft.
Volume of Water in Well	_____	gal.(s)
3X Volume of Water in Well	_____	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 60 gal.(s)
Did well go dry? No

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify) _____

Water parameters:

Temperature (C) Readings	
initial	11
after 60 (gal.)	11
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	

pH Readings	
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.9
initial	
after 60 (gal.)	6.5
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	

Conductivity (uS) Readings	
447 uS Standard	500
1,000 uS Standard	1,000
initial	
after 60 (gal.)	1250
after Repeat (gal.)	1670
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	

Water Sample:

Time Collected: 1230

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	-
Sheen/Free Product	None

Dissolved Oxygen: _____

Turbidity Readings	
Standard	
Standard	
Initial	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- Sample taken just after holding tank (30g capacity), but before filter system. Water allowed to run for 30 minutes at approximately 2.1 gallons per minute. Sample collected using a precleaned lab jar and then transferring it to lab bottles.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	7/1/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Dickinson-2
Site Location	Woodford and Bennington, Vermont	Project #	5271.001
Personnel	MAR	Excavation Method	Well Pump

Depth of Well *	_____	ft.
Depth of Water *	_____	ft.
Length of Water Column	_____	ft.
Volume of Water in Well	_____	gal.(s)
3X Volume of Water in Well	_____	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 100-150 gal.(s)
Did well go dry? No

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify) _____

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard	4.0				
			7.0 Standard	7.0		84 uS Standard	90	
			10.0 Standard	9.7		1413 uS Standard	1400	
	initial		initial			initial		
after ____	(gal.)		after ____	(gal.)		after ____	(gal.)	
after ____	(gal.)		after ____	(gal.)		after ____	(gal.)	
after ____	(gal.)		after ____	(gal.)		after ____	(gal.)	
after ____	(gal.)		after ____	(gal.)		after ____	(gal.)	
after ____	(gal.)	51	after ____	(gal.)	7.1	after ____	(gal.)	1700

Water Sample:

Time Collected: 15:10

Physical Appearance — Dissolved Oxygen: 8.75 mg/l

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	2.0
Sheen/Free Product	No

Turbidity Readings		
	Standard	
	Standard	
	Initial	
after ____	(gal)	
after ____	(gal)	
after ____	(gal)	
after ____	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

- Temp. = 51 F, pH = 7.1, Sc = 1700, Turb. = 2.0 NTU.
- Sample taken from outside spigot prior to filter, but after holding tank.
- Well purged for 30 minutes.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/04/93	Weather	Cloudy
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Getty Residence
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	-

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)
3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
Did well go dry? _____

* Measurements taken from ☐ Top of Well Casing ☐ Top of Protective Casing ☐ (Other, Specify) _____

Water parameters:

Temperature (C) Readings		pH Readings		Conductivity (uS) Readings	
		4.0 Standard		84 uS Standard	
		7.0 Standard		1413 uS Standard	
		10.0 Standard			
initial		initial		initial	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	

Water Sample:

Time Collected _____

Physical Appearance

Color _____
Odor _____
Turbidity (> 100 NTUs) _____
Sheen/Free Product _____

Dissolved Oxygen: _____

Turbidity Readings	
Standard	
Standard	
Initial	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- According to Mrs.Getty, the house is connected to Ryder spring and no well exists on the property.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/05/93	Weather	-
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Kinney Residence
Site Location	Woodford & Bennington,Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	-

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)
3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
Did well go dry? _____

* Measurements taken from ☐ Top of Well Casing ☐ Top of Protective Casing ☐ (Other, Specify) _____

Water parameters:

Temperature (C) Readings		pH Readings		Conductivity (uS) Readings	
		4.0 Standard		84 uS Standard	
		7.0 Standard		1413 uS Standard	
		10.0 Standard			
initial		initial		initial	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	

Water Sample:

Time Collected _____

Physical Appearance

Color _____
Odor _____
Turbidity (> 100 NTUs) _____
Sheen/Free Product _____

Dissolved Oxygen: _____

Turbidity Readings	
Standard	
Standard	
Initial	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- No Sample taken.
- According to Pat Kinney the house is connected to Ryder spring. The well formerly used has since been buried and associated piping is not accessible. The well went dry in 1987.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	6/05/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Olin -1
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR	Excavation Method	Existing Pump

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)
3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: Approx. 60 gal.(s)
Did well go dry? No

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify) _____

Water parameters:

Temperature Readings (C)		pH Readings		Conductivity Readings (uS)	
		4.0 Standard		84 uS Standard	
		7.0 Standard		1413 uS Standard	
		10.0 Standard			
initial		initial		initial	
after 60 (gal.)	11	after 60 (gal.)	7.0	after 60 (gal.)	140
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	
after _____ (gal.)		after _____ (gal.)		after _____ (gal.)	

Water Sample:

Time Collected 0900

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	-
Sheen/Free Product	None

Dissolved Oxygen: _____

Turbidity Readings	
Standard	
Standard	
Initial	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- Sample taken after holding tank (15 gal. capacity), but before filter system. Water allowed to run for 30 minutes prior to sampling. Sample taken from outside spigot while water was shut off to the rest of the house.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	7/1/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Olin-2
Site Location	Woodford & Bennington, VT	Project #	5271.001
Personnel	MAR	Excavation Method	Existing Well Pump

Depth of Well *		ft.
Depth of Water *		ft.
Length of Water Column		ft.
Volume of Water in Well		gal.(s)
3X Volume of Water in Well		gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 150 gal.(s)
Did well go dry? No

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature	Readings
initial	
after (gal.)	
after (gal.)	
after (gal.)	
after (gal.)	
after 150 (gal.)	54

pH	Readings
4.0 Standard	4.0
7.0 Standard	7.0
10.0 Standard	9.7
initial	
after (gal.)	
after (gal.)	
after (gal.)	
after (gal.)	
after 150 (gal.)	7.4

Conductivity	Readings
84 uS Standard	90
1413 u Standard	1400
initial	
after (gal.)	
after (gal.)	
after (gal.)	
after (gal.)	
after 150 (gal.)	180

Water Sample:

Time Collected: 14:20

Physical Appearance

Dissolved Oxygen: 9.05 mg/l

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	8
Sheen/Free Product	No

Turbidity	Readings
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:

- MS/MSD taken at this location for 524.2
- Sample taken from outside spigot prior to filter, but after holding tank.
- Well purged for 30 minutes @ approximately 5 gpm.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	6/03/93 & 6/04/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Ryder Spring -1
Site Location	Woodford & Bennington, Vt.	Project #	5271.001
Personnel	MAR/ADC	Excavation Method	Overflow

Depth of Well *	_____	ft.
Depth of Water *	_____	ft.
Length of Water Column	_____	ft.
Volume of Water in Well	_____	gal.(s)
3X Volume of Water in Well	_____	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
Did well go dry? _____

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify) _____

Water parameters:

Temperature (C) Readings	
initial	9
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	

pH Readings	
4.0 Standard	
7.0 Standard	
10.0 Standard	
initial	7.2
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	

Conductivity (uS) Readings	
84 uS Standard	
1413 uS Standard	
initial	90
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	
after _____ (gal.)	

Water Sample:

Time Collected 1600

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	-
Sheen/Free Product	None

Dissolved Oxygen: 10.4 ppm

Turbidity Readings	
Standard	
Standard	
Initial	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	
after _____ (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- MS/MSD & Blind Duplicate taken for 524.2.
Blind Duplicate #4-1.
Sample taken from overflow.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	7/1/93	Weather	Sunny
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	Ryder Spring-2
Site Location	Woodford and Bennington, Vermont	Project #	5271.001
Personnel	MAR	Excavation Method	Overflow Pipe

Depth of Well *	_____	ft.
Depth of Water *	_____	ft.
Length of Water Column	_____	ft.
Volume of Water in Well	_____	gal.(s)
3X Volume of Water in Well	_____	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: - gal.(s)
Did well go dry? -

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify) _____

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4.0			
			7.0 Standard		7.0	84 uS Standard		90
			10.0 Standard		9.7	1413 uS Standard		1400
	Initial			Initial			Initial	
after _____	(gal.)		after _____	(gal.)		after _____	(gal.)	
after _____	(gal.)		after _____	(gal.)		after _____	(gal.)	
after _____	(gal.)		after _____	(gal.)		after _____	(gal.)	
after _____	(gal.)		after _____	(gal.)		after _____	(gal.)	
after _____	(gal.)	47 F	after _____	(gal.)	7.3	after _____	(gal.)	100

Vater Sample:

me Collected: 15:30

Physical Appearance

Color	Clear
Odor	None
Turbidity (> 100 NTUs)	1.5
Sheen/Free Product	No

Dissolved Oxygen: 9.1 mg/l

Turbidity Readings		
	Standard	
	Standard	
	Initial	
after _____	(gal)	
after _____	(gal)	
after _____	(gal)	
after _____	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductivity

NOTES:
- pH = 7.3, Sc = 100, Turb. = 1.5 NTU.
- Blind Dup. taken @ this location (Blind Dup.-2).
- Sample taken from overflow pipe.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/22/93
Site Name: Burgess Bros. Superfund
Site Location: Bennington, VT
Personnel: NAR/TJK
Weather: Sunny - 55°
Well #/Sample Name: W-0151-3
Project #: 527j.001
Excavation Method: SS Bailer

Depth of Well * 18.20 ft.
Depth of Water * 9.24 ft.
Length of Water Column 4.96 ft.
Volume of Water in Well 0.81 gal.(s)
3X Volume of Water in Well 2.42 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2.5 gal.(s)
Did well go dry? yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings	
initial	—
after 0.82 (gal.)	11
after 1.6 (gal.)	10.5
after 2.5 (gal.)	10.5
after (gal.)	10.5
after (gal.)	

pH Readings	
4.0 Standard	4
7.0 Standard	
10.0 Standard	10
initial	—
after 0.82 (gal.)	5.9
after 1.6 (gal.)	7.1
after 2.5 (gal.)	7.2
after (gal.)	
after (gal.)	

Conductivity Readings	
84 S Standard	80
1413 S Standard	940
initial	—
after 0.89 (gal.)	160
after 1.6 (gal.)	160
after 2.5 (gal.)	160
after (gal.)	
after (gal.)	

Water Sample:

Time Collected 1315

Physical Appearance
Color: TAN/BROWN
Odor: NONE
Turbidity (> 100 NTUs):
Sheen/Free Product: NONE

Dissolved Oxygen: 9.5 mg/L

Turbidity Reading	
Standard	0
Standard	10
Initial	
after 0.82 (gal)	8.8
after 1.6 (gal)	46
after 2.5 (gal)	52
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity
40ml	Vial	3	—	HCl	<2		
500ml	PE	2	Y/N	HNO_3	<2		

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/29/93
Site Name: Burgess Bros. SF
Site Location: Bennington, VT
Personnel: MAR/PJF
Weather: Sunny
Well #/Sample Name: W-02-3
Project #: 527.002
Excavation Method: SS Bailer

Depth of Well * 20.2 ft.
Depth of Water * 1.00 ft.
Length of Water Column 19.2 ft.
Volume of Water in Well 3.13 gal.(s)
3X Volume of Water in Well 9.4 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3.2 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard	4	84 S Standard	70
		7.0 Standard	-		
		10.0 Standard	10	1,000 ~~1413~~ S Standard	970
initial		initial		initial	
after 3.2 (gal.)	7	after 3.2 (gal.)	7.9	after 3.2 (gal.)	520
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected 0900

Physical Appearance

Dissolved Oxygen: 9.3 mg/l

Color: Dk Brown
Odor: Musty
Turbidity (> 100 NTUs): >100
Sheen/Free Product: No Sheen

Turbidity Readin	
Standard	
Standard	
Initial	
after 3.2 (gal)	>100
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	11/29/93	Weather	SUNNY - 45°
Site Name	BURGESS BROS SF	Well #/Sample Name	10-03-3
Site Location	BENNINGTON Vt.	Project #	52 002
Personnel	MAR EJF TE	Excavation Method	SS Bailer

Depth of Well *	19.49	ft.
Depth of Water *	2.32	ft.
Length of Water Column	17.17	ft.
Volume of Water in Well	2.80	gal.(s)
3X Volume of Water in Well	8.40	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 8.4 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard	4		84 S Standard	70	
			7.0 Standard	–		1000 ~~1413~~ S Standard	970	
			10.0 Standard	10				
	initial	[illegible]	initial	[illegible]		initial	[illegible]	
after 2.8	(gal.)	6.6	after 2.8 (gal.)	8.1		after 2.8 (gal.)	291	
after 5.6	(gal.)	6.5	after 5.6 (gal.)	8.3		after 5.6 (gal.)	289	
after 8.4	(gal.)	6.5	after 8.4 (gal.)	8.2		after 8.4 (gal.)	290	
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected 11:13

Physical Appearance

Dissolved Oxygen: 11.2 mg/l

Color	CLEAR to GRAY
Odor	NONE
Turbidity (> 100 NTUs)	MOD
Sheen/Free Product	

Turbidity Readin		
Standard		
Standard		
Initial		
after 2.8	(gal)	>100
after 5.6	(gal)	
after 8.4	(gal)	
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/29/93 | Weather: SUNNY - 45°
Site Name: BURGESS BROS SF | Well #/Sample Name: W 03.52 (T)
Site Location: BENNINGTON VT. | Project #: 5271.002
Personnel: MAC, TEDD FISKE | Excavation Method: SS Bailer

Depth of Well *	30	ft.
Depth of Water *	1.61	ft.
Length of Water Column	28.39	ft.
Volume of Water in Well	4.63	gal.(s)
3X Volume of Water in Well	13.89	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 14 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
initial		~~6.2~~
after 4.5	(gal.)	6.2
after 9.0	(gal.)	6.8
after 13.5	(gal.)	6.1
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
initial		~~9.2~~
after 4.5	(gal.)	4.6
after 9.0	(gal.)	4.3
after 13.5	(gal.)	9.3
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		70
1000 1413 S Standard		920
initial		~~[illegible]~~
after 4.5	(gal.)	160
after 9.0	(gal.)	160
after 13.5	(gal.)	162
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected: 10:55

Physical Appearance
Color: CLEAR
Odor: NONE
Turbidity (> 100 NTUs): MUD
Sheen/Free Product:

Dissolved Oxygen: —

Turbidity Readings		
Standard		
Standard		
Initial		
after 4.5	(gal)	>100
after 9.0	(gal)	>100
after 13.5	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/29/93
Site Name: Burgess Bros. SF
Site Location: Bennington, VT
Personnel: MAR
Weather: Sunny
Well #/Sample Name: W-045-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well *: 6.37 ft.
Depth of Water *: 0.88 ft.
Length of Water Column: 5.49 ft.
Volume of Water in Well: 0.89 gal.(s)
3X Volume of Water in Well: 2.7 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2.7 gal.(s)
Did well go dry? Yes

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
		Initial	4.0 Standard		4	84~~5~~ Standard		70
			7.0 Standard		—			
			10.0 Standard		10	1000~~1413~~ S Standard		720
		Initial			Initial			Initial
after	0.9 (gal.)	4.5	after	0.9 (gal.)	7.9	after	0.9 (gal.)	340
after	0.9 (gal.)	5.2	after	0.9 (gal.)	7.8	after	0.9 (gal.)	370
after	0.9 (gal.)	4.9	after	0.9 (gal.)	7.8	after	0.9 (gal.)	370
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected: 0930

Physical Appearance
Color: DK BROWN
Odor: NONE
Turbidity (> 100 NTUs): >100
Sheen/Free Product: NO

Dissolved Oxygen: —

Turbidity Readin		
		Standard
		Standard
		Initial
after	0.9 (gal)	>100
after	0.9 (gal)	>100
after	0.9 (gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/23/93
Site Name: BURGESS BROTHERS
Site Location: BENNINGTON, VT
Personnel: PJF/MAR
Weather: Cloudy
Well #/Sample Name: W-04D-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well * 17.71 ft.
Depth of Water * 0.94 ft.
Length of Water Column 16.77 ft.
Volume of Water in Well 2.73 gal.(s)
3X Volume of Water in Well 8.2 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 8.0 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard	4	84 S Standard	90
		7.0 Standard		1,000 ~~1413~~ S Standard	980
		10.0 Standard	10	initial	468
initial		initial		after 2.5 (gal.)	~~108~~
after 2.5 (gal.)	9.0	after 2.5 (gal.)	8.7	after 5.0 (gal.)	382
after 5.0 (gal.)	8.3	after 5.0 (gal.)	7.9	after 8.0 (gal.)	377
after 8.0 (gal.)	8.2	after 8.0 (gal.)	7.5	after (gal.)	
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)			

Water Sample:
Time Collected 1620

Physical Appearance
Color: BROWN
Odor: NO
Turbidity (> 100 NTUs):
Sheen/Free Product: NO

Dissolved Oxygen: 9.8 mg/l

Turbidity Readin	
Standard	
Standard	
Initial	
after 2.5 (gal)	16.0
after 5.0 (gal)	>100
after 8.0 (gal)	>100
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	11/29/93	Weather	SUNNY 45°
Site Name	BURGESS BROS. SF	Well #/Sample Name	W-05-3
Site Location	BENNINGTON VA.	Project #	5271.007
Personnel	MAC, TED FISKE	Excavation Method	SS BAILER

Depth of Well *	16.6	ft.
Depth of Water *	2.35	ft.
Length of Water Column	14.25	ft.
Volume of Water in Well	2.3	gal.(s)
3X Volume of Water in Well	6.9	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 6.9 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
		initial [illegible]
after 2.3	(gal.)	7.0
after 4.6	(gal.)	7.0
after 6.9	(gal.)	7.0
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
		initial [illegible]
after 2.3	(gal.)	8.7
after 4.6	(gal.)	8.6
after 6.9	(gal.)	8.6
after	(gal.)	
after	(gal.)	

Conductivity Readings		
	84 S Standard	70
1000	1413 S Standard	920
	initial	160
after 2.3	(gal.)	160
after 4.6	(gal.)	160
after 6.9	(gal.)	160
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected 10:35

Physical Appearance — Dissolved Oxygen: —

Color: CLEAR to TAN
Odor: MUSKY
Turbidity (> 100 NTUs): MOD >100
Sheen/Free Product: N/S

Turbidity Reading		
	Standard	
	Standard	
	Initial	
after 2.3	(gal)	>100
after 4.6	(gal)	>100
after 6.9	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/24/93
Site Name: BURGESS BROS SF
Site Location: BENNINGTON, VT
Personnel: MIKE FF TODD FISKE
Weather: CLEAR 45°
Well #/Sample Name: W-065-3
Project #: 5371.002
Excavation Method: SS Bailer

Depth of Well * 7 ft.
Depth of Water * 1.04 ft.
Length of Water Column 6.0 ft.
Volume of Water in Well 0.97 gal.(s)
3X Volume of Water in Well 2.9 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3.0 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
initial		[redacted]
after 1	(gal.)	6.8
after 2	(gal.)	6.8
after 3	(gal.)	6.8
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
initial		[redacted]
after 1	(gal.)	8.3
after 2	(gal.)	8.1
after 3	(gal.)	8.1
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		70
1,000 ~~1413~~ S Standard		970
initial		[redacted]
after 1	(gal.)	132
after 2	(gal.)	130
after 3	(gal.)	130
after	(gal.)	
after	(gal.)	

Water Sample:
Time Collected 12:20

Physical Appearance
Color: CLEAR TO TAN
Odor: NONE
Turbidity (> 100 NTUs): MOD
Sheen/Free Product:

Dissolved Oxygen: —

Turbidity Readin		
Standard		
Standard		
initial		
after 1	(gal)	>100
after 2	(gal)	>100
after 3	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/29/93
Site Name: BURGESS BROS. SF
Site Location: BENNINGTON VT.
Personnel: MMR
Weather: PARTLY CLOUDY
Well #/Sample Name: W-06D-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well * 18.87 ft.
Depth of Water * 1.72 ft.
Length of Water Column 17.15 ft.
Volume of Water in Well 2.8 gal.(s)
3X Volume of Water in Well 8.4 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 9.0 gal.'s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
initial		[illegible]
after 2.8	(gal.)	7.3
after 5.6	(gal.)	7.5
after 8.4	(gal.)	7.1
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
initial		[illegible]
after 2.8	(gal.)	8.2
after 5.6	(gal.)	8.3
after 8.4	(gal.)	8.0
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		70
1413 S Standard		970
initial		[illegible]
after 2.8	(gal.)	140
after 5.6	(gal.)	140
after 8.4	(gal.)	140
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected 1:35

Physical Appearance
Color: LT. BROWN
Odor: NONE
Turbidity (> 100 NTUs): MOD >100
Sheen/Free Product:

Dissolved Oxygen: ~

Turbidity Readings		
Standard		
Standard		
initial		
after	(gal)	>100
after	(gal)	↓
after	(gal)	
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	11/3/93	Weather	CLOUDY/40°
Site Name	BURGESS BROS SF	Well #/Sample Name	W-07/SG-1
Site Location	BENNINGTON, VT.	Project #	5271.002
Personnel	JMR, FJF. TF.	Excavation Method	SS Bailer

Depth of Well *	17.0	ft.
Depth of Water *	10.62	ft.
Length of Water Column	6.4	ft.
Volume of Water in Well	1.04	gal.(s)
3X Volume of Water in Well	3.1	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.1 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4		84 S Standard	80
			7.0 Standard		—		1413 S Standard	
			10.0 Standard		10		Initial	~~500~~
	Initial	~~8.2~~	Initial		~~7.6~~			
after 1.0	(gal.)	8.2	after 1.0	(gal.)	7.6	after 1.0	(gal.)	520
after 2.0	(gal.)	8.2	after 2.0	(gal.)	7.4	after 2.0	(gal.)	540
after 3.0	(gal.)	8.2	after 3.0	(gal.)	7.4	after 3.0	(gal.)	540
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:
Time Collected 09:30

Physical Appearance
Color: BROWN
Odor: NONE
Turbidity (> 100 NTUs): HIGH >100
Sheen/Free Product: None

Dissolved Oxygen: —

Turbidity Readings		
	Standard	
	Standard	
	Initial	
after 1	(gal)	>100
after 2	(gal)	>100
after 3	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 1/23/93
Site Name: BURGESS BROTHERS
Site Location: BENNINGTON VT.
Personnel: MAR | TLP | FJT | TF

Weather: Sunny
Well #/Sample Name: W-0851-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well *: 27.3 ft.
Depth of Water *: 23.30 ft.
Length of Water Column: 4.00 ft.
Volume of Water in Well: 0.65 gal.(s)
3X Volume of Water in Well: 2.0 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2 gal.(s)
Did well go dry? YES

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
		Initial
after 0.65	(gal.)	8.5
after 1.3	(gal.)	8.5
after 2.0	(gal.)	8.5
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		-
10.0 Standard		10
		Initial
after 0.65	(gal.)	7.8
after 1.3	(gal.)	7.0
after 2.0	(gal.)	7.4
after	(gal.)	
after	(gal.)	

Conductivity Readings		
	84 S Standard	90
1,000	1413 S Standard	980
		Initial
after 0.65	(gal.)	120
after 1.3	(gal.)	150
after 2.0	(gal.)	150
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected: 10:35

Physical Appearance

Color: BROWN
Odor: NO
Turbidity (> 100 NTUs):
Sheen/Free Product: NO

Dissolved Oxygen: ~~12.9~~ 14.0 mg/l

Turbidity Readings		
		Standard
		Standard
		Initial
after 0.65	(gal)	> 100
after 1.3	(gal)	> 100
after 2.0	(gal)	> 100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA VIAL pH < 2.0
WELL SAMPLED OVER COURSE OF THE DAY DUE TO SLOW RECOVERY.

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/23/93
Site Name: Burgess Brothers
Site Location: Bennington, VT
Personnel: ETE
Weather: Sunny
Well #/Sample Name: W-09/SS-3
Project #: 5277.002
Excavation Method: SS Bailer

Depth of Well * 12.4 ft.
Depth of Water * 5.02 ft.
Length of Water Column 7.38 ft.
Volume of Water in Well 1.2 gal.(s)
3X Volume of Water in Well 3.6 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3.5 ± gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4	84 S Standard		90
			7.0 Standard		-	1000 1413 S Standard		980
		initial	10.0 Standard		10		initial	
after	1.25 (gal.)	8.5	initial			after	1.25 (gal.)	130
after	2.5 (gal.)	8.5	after	1.25 (gal.)	6.9	after	2.5 (gal.)	120
after	3.5 (gal.)	8.5	after	2.5 (gal.)	6.80	after	3.5 (gal.)	120
after	(gal.)		after	3.5 (gal.)	6.80	after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	
			after	(gal.)		after	(gal.)	

Water Sample:

Time Collected 11:45

Physical Appearance

Color: Brown
Odor: No
Turbidity (> 100 NTUs): -
Sheen/Free Product: No

Dissolved Oxygen: 8.5 mg/l

Turbidity Reading		
	Standard	0
	Standard	10
	initial	
after	1.25 (gal)	80
after	2.50 (gal)	>100
after	3.5 (gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA VIAL pH < 2.0

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	11/30/93	Weather	CLOUDY - 40°
Site Name	BURGESS BROS. SF	Well #/Sample Name	SBW-10-3
Site Location	BENNINGTON, VT	Project #	5.271.002
Personnel	MAR, FJF, T.F	Excavation Method	SS Bailer

Depth of Well *	18.19	ft.
Depth of Water *	13.19	ft.
Length of Water Column	5.0	ft.
Volume of Water in Well	.8	gal.(s)
3X Volume of Water in Well	2.4	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 3.0 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
		initial 7.9
after .8	(gal.)	7.9
after 1.6	(gal.)	7.9
after 2.4	(gal.)	7.9
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		-
10.0 Standard		10
	initial	6.5
after .8	(gal.)	6.6
after 1.6	(gal.)	6.6
after 2.4	(gal.)	6.5
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		80
1413 S Standard		
	initial	260
after .8	(gal.)	260
after 1.6	(gal.)	260
after 2.4	(gal.)	260
after	(gal.)	
after	(gal.)	

Water Sample:
Time Collected 09:00

Physical Appearance — Dissolved Oxygen: —

Color: TAN/BR
Odor: NO
Turbidity (> 100 NTUs): HIGH
Sheen/Free Product:

Turbidity Readin		
	Standard	
	Standard	
	Initial	
after 0.8	(gal)	>100
after 1.6	(gal)	>100
after 2.4	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date: 11/30/93 | Weather: Cloudy - 40°
Site Name: BURGESS BROS SF | Well #/Sample Name: W-1151-3
Site Location: BENNINGTON VT. | Project #: 5271.00L
Personnel: MM FJF. T.F. | Excavation Method: SS Bailer

Depth of Well * 10.1 ft.
Depth of Water * 3.31 ft.
Length of Water Column 6.8 ft.
Volume of Water In Well 1.1 gal.(s)
3X Volume of Water In Well 3.3 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 5.5 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
	Initial	
after 1.1 (gal.)		6.5
after 2.2 (gal.)		6.5
after 3.3 (gal.)		6.5
after 4.4 (gal.)		6.5
after 5.5 (gal.)		6.5

pH Readings	
4.0 Standard	4
7.0 Standard	-
10.0 Standard	10
Initial	
after 1.1 (gal.)	6.9
after 2.2 (gal.)	6.2
after 3.3 (gal.)	6.5
after 4.4 (gal.)	9.1 *
after 5.5 (gal.)	7.4

Conductivity Readings	
84 S Standard	80
1413 S Standard	
Initial	
after 1.1 (gal.)	510
after 2.2 (gal.)	520
after 3.3 (gal.)	510
after 4.4 (gal.)	520
after 5.5 (gal.)	510

Water Sample:
Time Collected 1100

Physical Appearance — Dissolved Oxygen: 6.5 – 9.2 mg/l

Color: Lt Black-Brn
Odor: None
Turbidity (> 100 NTUs): >100
Sheen/Free Product: No Sheen

Turbidity Reading	
Standard	
Standard	
Initial	
after 1.1 (gal)	>100
after 2.2 (gal)	>100
after 3.3 (gal)	16.5
after 4.4 (gal)	>100
after 5.5 (gal)	>100

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/29/93 | Weather: CLOUDY 45°
Site Name: BURNESS BROS SF | Well #/Sample Name: WT-12 S1-3
Site Location: BENNINGTON VT. | Project #: 5271.002
Personnel: MAR, EJE T.E. | Excavation Method: SS Bailer

Depth of Well * 10.1 ft.
Depth of Water * 2.27 ft.
Length of Water Column 7.8 ft.
Volume of Water in Well 1.3 gal.(s)
3X Volume of Water in Well 3.8 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 4.0 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings	
Initial	~~7.5~~
after 1.3 (gal.)	7.5
after 2.6 (gal.)	7.5
after 3.9 (gal.)	7.5
after (gal.)	
after (gal.)	

pH Readings	
4.0 Standard	4
7.0 Standard	—
10.0 Standard	10
Initial	~~7.5~~
after 1.3 (gal.)	8.0
after 2.6 (gal.)	8.1
after 3.9 (gal.)	8.2
after (gal.)	
after (gal.)	

Conductivity Readings	
~~84~~ S Standard	70
1,000 ~~1413~~ S Standard	920
Initial	~~150~~
after 1.3 (gal.)	150
after 1.3 (gal.)	150
after 1.3 (gal.)	150
after (gal.)	
after (gal.)	

Water Sample:

Time Collected 3:01

Physical Appearance
Color: CLEAR/TAN/GRAY
Odor: NONE
Turbidity (> 100 NTUs): Mod.
Sheen/Free Product: NONE

Dissolved Oxygen: —

Turbidity Readings	
Standard	
Standard	
Initial	
after 1.3 (gal)	>100
after 2.6 (gal)	>100
after 3.9 (gal)	>100
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/22/93 — Weather: Sunny/55°
Site Name: Burgess Bros. Superfund — Well #/Sample Name: SBW-21 -3
Site Location: Bennington, VT — Project #: 5271.001
Personnel: MAR/FSF — Excavation Method: SS Bailer

Depth of Well * 20.1 ft.
Depth of Water * 17.30 ft.
Length of Water Column 2.8 ft.
Volume of Water in Well 0.46 gal.(s)
3X Volume of Water in Well 1.37 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~2.0 gal.(s)
Did well go dry? Yes

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
initial		
after .5	(gal.)	16.5°C
after 1.0	(gal.)	17.0°C
after 1.5	(gal.)	17.1°C
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
initial		
after .5	(gal.)	6.6
after 1.0	(gal.)	6.7
after 1.5	(gal.)	6.7
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		80
1,000 ~~1413~~ S Standard		920
initial		
after .5	(gal.)	390
after 1.0	(gal.)	910
after 1.5	(gal.)	410
after	(gal.)	
after	(gal.)	

Water Sample:
Time Collected 14:30

Physical Appearance
Color: TAN TO GRAY
Odor: MUSKY
Turbidity (> 100 NTUs):
Sheen/Free Product: NONE

Dissolved Oxygen: 10.2 mg/l

Turbidity Readings		
Standard		0
Standard		10
initial		
after .5	(gal)	6.86
after 1.0	(gal)	1.86
after 1.5	(gal)	2.01
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES: pH OF VOA VIALS TESTED - ≤ 2, OK

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/29/93
Site Name: BURGESS BROS. SF
Site Location: BENNINGTON VT.
Personnel: MAR, FJF T.F.
Weather: CLOUDY 45°
Well #/Sample Name: W-2251-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well * 11.2 ft.
Depth of Water * 3.01 ft.
Length of Water Column 8.2 ft.
Volume of Water in Well 1.3 gal.(s)
3X Volume of Water in Well 4.0 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 4.0 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard	4	84 S Standard	70
		7.0 Standard	–	1,000 1413 S Standard	970
		10.0 Standard	10		
initial	7.5	initial	7.9	Initial	[illegible]
after 1.3 (gal.)	7.2	after 1.3 (gal.)	8.0	after 1.3 (gal.)	360
after 2.6 (gal.)	7.4	after 2.6 (gal.)	7.8	after 2.6 (gal.)	360
after 3.9 (gal.)		after 3.9 (gal.)	[illegible]	after 3.9 (gal.)	360
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	

Water Sample:
Time Collected 2:35

Physical Appearance
Color TAN/GRAY
Odor NONE
Turbidity (> 100 NTUs) LOW/MOD/>100
Sheen/Free Product

Dissolved Oxygen: –

Turbidity Reading	
Standard	
Standard	
Initial	
after 1.3 (gal)	>100
after 2.6 (gal)	5
after 3.9 (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/23/93
Site Name: BURGESS BROTHERS
Site Location: BENNINGTON VT
Personnel: MAR / TEF / ~~MAR~~ FJF / RPL
Weather: SUNNY / 40°
Well #/Sample Name: W-23T-3
Project #: 5271.0002
Excavation Method: SS Bailer

Depth of Well * 8.1 ft. + 2
Depth of Water * 5.78 ft.
Length of Water Column 4.32 ft.
Volume of Water in Well 0.70 gal.(s)
3X Volume of Water in Well 2.11 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2 gal.(s)
Did well go dry? No

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) GRADE

Water parameters:

Temperature Readings		
		Initial
after 1	(gal.)	8.5
after 1.5	(gal.)	8.5
after 2	(gal.)	8.5
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
		Initial
after 1	(gal.)	8.1
after 1.5	(gal.)	8.5
after 2	(gal.)	8.7
after	(gal.)	
after	(gal.)	

Conductivity Readings		
1000	84 S Standard	90
~~1413~~ S Standard		780
		Initial
after 1	(gal.)	108
after 1.5	(gal.)	102
after 2	(gal.)	90
after	(gal.)	
after	(gal.)	

Water Sample: ~~MW~~
Time Collected 14.00

Physical Appearance
Color: BROWN
Odor: No
Turbidity (> 100 NTUs):
Sheen/Free Product: No

Dissolved Oxygen: 13.4

Turbidity Readings		
Standard		0
Standard		10
		Initial
after 1	(gal)	5.5
after 1.5	(gal)	0.2
after 2	(gal)	4.75
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES: pH OF 9240 VIAL < 2.0

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/23/93
Site Name: BUCKLEY BROTHERS
Site Location: BERRINGTON VT.
Personnel: FJF/AF
Weather: Sunny/40°
Well #/Sample Name: W-24T-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well * 15.8 ft. +2 (PVC)
Depth of Water * 2.79 ft.
Length of Water Column 15.01 ft.
Volume of Water in Well 2.45 gal.(s)
3X Volume of Water in Well 7.34 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 7.5 gal.(s)
Did well go dry? ND

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) GRADE

Water parameters:

Temperature Readings	
initial	
after 2.5 (gal.)	9.5
after 5.0 (gal.)	9.5
after 7.5 (gal.)	8.5
after (gal.)	
after (gal.)	

pH Readings	
4.0 Standard	4
7.0 Standard	—
10.0 Standard	10
Initial	
after 2.5 (gal.)	9.3
after 5.0 (gal.)	8.5
after 7.5 (gal.)	7.8
after (gal.)	
after (gal.)	

Conductivity Readings	
84 S Standard	90
1,000 ~~1413~~ S Standard	580
Initial	
after 2.5 (gal.)	60
after 5.0 (gal.)	90
after 7.5 (gal.)	89
after (gal.)	
after (gal.)	

Water Sample:

Time Collected 14:45

Physical Appearance

Color: BROWN
Odor: YES
Turbidity (> 100 NTUs):
Sheen/Free Product: NO

Dissolved Oxygen: 12.2 mg/l

Turbidity Reading	
Standard	
Standard	
Initial	
after 2.5 (gal)	19.5
after 5.0 (gal)	18.0
after 7.5 (gal)	0.90
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES: pH OF 8240 VIAL < 2.0

BLIND DUP. 3-3 RETRIEVED AT THIS LOCATION

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/23/93
Site Name: Burgess Bros. Superfund
Site Location: Bellmawr, NJ
Personnel: MAR/BEJF
Weather: Sunny/40°
Well #/Sample Name: W-2551-3
Project #: 5271.002
Excavation Method: SS Bailer

Depth of Well * 12.45 ft.
Depth of Water * 6.75 ft.
Length of Water Column 5.7 ft.
Volume of Water In Well 0.93 gal.(s)
3X Volume of Water In Well 2.79 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
		Initial
after	1 (gal.)	8.5
after	2 (gal.)	9.0
after	3 (gal.)	9.0
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		—
10.0 Standard		10
		Initial
after	1 (gal.)	6.0
after	2 (gal.)	6.1
after	3 (gal.)	6.2
after	(gal.)	
after	(gal.)	

Conductivity Readings		
	84 S Standard	90
1,000	~~1413~~ S Standard	980
		Initial
after	1 (gal.)	210
after	2 (gal.)	230
after	3 (gal.)	240
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected 11.00

Physical Appearance

Color: Lt Gray
Odor: Musky
Turbidity (> 100 NTUs):
Sheen/Free Product: No

Dissolved Oxygen: 11.5 mg/l

Turbidity Readings		
		Standard
		Standard
		Initial
after	1 (gal)	92
after	2 (gal)	65
after	3 (gal)	102
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
Voa vial pH < 2.0

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/30/93
Site Name: BURGESS BROS SF.
Site Location: BENNINGTON, Vt.
Personnel: MMC, FJF T.F.
Weather: SNOW - 40°
Well #/Sample Name: W-07DI-3
Project #: 5271.002
Excavation Method:

Depth of Well * 237 ft.
Depth of Water * 201.2 ft.
Length of Water Column 35.8 ft.
Volume of Water in Well 5.8 gal.(s)
3X Volume of Water in Well 17.5 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 180 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4.0			
			7.0 Standard		—	84 S Standard		80
			10.0 Standard		10	1413 S Standard		
	Initial	~~8.5~~		Initial	~~11.3~~		Initial	~~840~~
after	6.0 (gal.)	~~8.3~~ 8.5	after	6.0 (gal.)	11.3	after	6.0 (gal.)	890
after	12.0 (gal.)	~~8.1~~ 8.3	after	12.0 (gal.)	11.4	after	12.0 (gal.)	840
after	18.0 (gal.)	8.1	after	18.0 (gal.)	11.5	after	18.0 (gal.)	840
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:
Time Collected 12:00

Physical Appearance
Color: CLEAR/TAN
Odor: NONE
Turbidity (> 100 NTUs): LOW
Sheen/Free Product:

Dissolved Oxygen: —

Turbidity	Reading
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/30/93
Site Name: BURGESS BROS SF.
Site Location: BOONINGTON VA.
Personnel: MAC FIF TEDDESEE
Weather: CLOUDY 40°
Well #/Sample Name: W-07SI-3
Project #: 5271.002
Excavation Method: Redi-Flo Pump

Depth of Well * 118 ft.
Depth of Water * 52.65 ft.
Length of Water Column 65.3 ft.
Volume of Water in Well 10.6 gal.(s)
3X Volume of Water in Well 31.9 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~~32~~ 25 gal.(s)
Did well go dry? ~~YES~~ YES

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard	4		
		7.0 Standard	—	84 S Standard	80
		10.0 Standard	10	1413 S Standard	—
initial	~~55~~ ~~FF~~	initial	~~7.6~~	initial	~~FF~~
after 10.2 (gal.)	~~58~~ 73	after 10.2 (gal.)	8.9 ~~FF~~	after 10.2 (gal.)	130 ~~FF~~
after 10.2 (gal.)	~~57~~ 7.3	after 10.2 (gal.)	8.7 ~~FF~~	after 10.2 (gal.)	130 ~~FF~~
after ~~5~~ 10.2 (gal.)	7.8	after ~~5~~ 10.2 (gal.)	8.9	after ~~5~~ 10.2 (gal.)	131
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected 12:30

Physical Appearance

Dissolved Oxygen: —

Color BROWN/TAN CLEAR
Odor NONE
Turbidity (> 100 NTUs) LOW
Sheen/Free Product

Turbidity Readin	
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	12.1.93	Weather	
Site Name	BURGESS BROS SUPERFUND SITE	Well #/Sample Name	W-08SI-3
Site Location	BENNINGTON, VT.	Project #	5271.[illegible]
Personnel	EIF, MAR, RPP, TEE	Excavation Method	BAILER

Depth of Well *	131.	ft.
Depth of Water *	43.06	ft.
Length of Water Column	87.94	ft.
Volume of Water in Well	14.3	gal.(s)
3X Volume of Water in Well	43.0	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 19 gal.(s)
Did well go dry? YES

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard	4		84 S Standard	80	
			7.0 Standard			1413 S Standard	—	
			10.0 Standard	10				
	Initial	[illegible]	Initial	12.7		Initial	[illegible]	
after ~14	(gal.)	7.2	after ~14	(gal.)	13.7	after ~14	(gal.)	6.58
after ~19	(gal.)	7.4	after ~19	(gal.)	13.1	after ~19	(gal.)	6.57
after [illegible]	(gal.)		after [illegible]	(gal.)		after [illegible]	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:
Time Collected 1405

Physical Appearance — Dissolved Oxygen: —

Color	CLEAR
Odor	NONE
Turbidity (> 100 NTUs)	
Sheen/Free Product	NONE

Turbidity Reading		
Standard		
Standard		
Initial		
after	(gal)	51
after	(gal)	
after	(gal)	
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

VOA pH < 2

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	12/1/93	Weather	Sunny
Site Name	Burgess Bros SF	Well #/Sample Name	W-09SI-3
Site Location	Bennington, VT	Project #	52-71.002
Personnel	MAR	Excavation Method	SS Bailer

Depth of Well *	109	ft.
Depth of Water *	12.87	ft.
Length of Water Column	96.13	ft.
Volume of Water in Well	15.67	gal.(s)
3X Volume of Water in Well	47	gal.(s)

Water Volume /ft. for:
- 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)

Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4	84 S Standard		80
			7.0 Standard		–	1413 S Standard		–
		Initial	10.0 Standard		10	initial		
after 16	(gal.)	7	after 16	(gal.)	5.7	after 16	(gal.)	50
after 32	(gal.)	7	after 32	(gal.)	6.4	after 32	(gal.)	59
after 48	(gal.)	8	after 48	(gal.)	7.3	after 48	(gal.)	56
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected 1130

Physical Appearance

Dissolved Oxygen: 10 mg/l

Color	Lt Brown
Odor	None
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	None

Turbidity Reading		
	Standard	
	Standard	
	Initial	
after 16	(gal)	19.2
after 16	(gal)	>100
after 16	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

VOA PH < 2

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date: 12/1/13
Site Name: BURGESS BROS. SOLVENTS SITE
Site Location: BENNINGTON, VT
Personnel: TJF, RDL, MMS, TEF
Weather:
Well #/Sample Name: W-04SI-3
Project #: 3271.002
Excavation Method: PUSH/STD. RIG

Depth of Well * 157 ft.
Depth of Water * 20.84 ft.
Length of Water Column 136.16 ft.
Volume of Water in Well 22.19 gal.(s)
3X Volume of Water in Well 66.58 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ≈ 70 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
	initial	
after 22	(gal.)	7.5
after 44	(gal.)	7.5
after 66	(gal.)	7.5
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4.0
7.0 Standard		
10.0 Standard		10.0
	initial	
after 22	(gal.)	7.1
after 44	(gal.)	7.5
after 66	(gal.)	7.1
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		80
1413 S Standard		—
	initial	
after 22	(gal.)	136
after 44	(gal.)	110
after 66	(gal.)	110
after	(gal.)	
after	(gal.)	

Water Sample:
Time Collected 1015

Physical Appearance
Color Lt Brown
Odor None
Turbidity (> 100 NTUs) >100
Sheen/Free Product None

Dissolved Oxygen: —

Turbidity Readir		
Standard		
Standard		
	initial	
after 22	(gal)	>100
after 44	(gal)	>100
after 66	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA pH < 2.0

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/30/93
Site Name: Burgess Bros.
Site Location: Bennington, VT
Personnel: FTF/BEF
Weather: Sunny 45°
Well #: W-045F-3
Project #: 527.002
Excavation Method: Redi-Flo Pump

Depth of Well * 112 ft.
Depth of Water * 12.56 ft.
Length of Water Column 99.4 ft.
Volume of Water in Well 16.2 gal.(s)
3X Volume of Water in Well 48.6 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 49.0 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify) ____

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard			
		7.0 Standard		84 S Standard	
		10.0 Standard		1413 S Standard	
	Initial	Initial		Initial	
after 16.2 (gal.)	8.2	after 16.2 (gal.)	10.1	after 16.2 (gal.)	90
after 32.4 (gal.)	7.8	after 32.4 (gal.)	9.8	after 32.4 (gal.)	93
after 48.6 (gal.)	7.2	after 48.6 (gal.)	9.6	after 48.6 (gal.)	110
after ____ (gal.)		after ____ (gal.)		after ____ (gal.)	
after ____ (gal.)		after ____ (gal.)		after ____ (gal.)	

Water Sample:
Time Collected 1615

Physical Appearance

Color: Clear/Tan
Odor: Non
Turbidity (> 100 NTUs): >100
Sheen/Free Product: No

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 12-1-93
Site Name: BURGESS BROS. SUPERFUND SITE
Site Location: BENNINGTON, VT.
Personnel: FTF, DMR, CPL, JEF
Weather: Cloudy
Well #/Sample Name: D-25I-3
Project #: 5271.002
Excavation Method: BAILER

Depth of Well * 1305 ft.
Depth of Water * 21.50 ft.
Length of Water Column 109 ft.
Volume of Water in Well ~17 gal.(s)
3X Volume of Water in Well 51 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~50 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
		Initial
after 17	(gal.)	7.0
after 34	(gal.)	6.0
after 51	(gal.)	7.0
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		-
10.0 Standard		10
		Initial
after 17	(gal.)	6.1
after 34	(gal.)	12.1
after 51	(gal.)	11.8
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		80
1413 S Standard		
		Initial
after 17	(gal.)	100
after 34	(gal.)	95
after 51	(gal.)	45
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected 1730

Physical Appearance

Dissolved Oxygen: 10.8 mg/l

Color
Odor
Turbidity (> 100 NTUs)
Sheen/Free Product

Turbidity Readin		
		Standard
		Standard
		Initial
after 17	(gal)	>100
after 34	(gal)	>100
after 51	(gal)	>100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

VOA VIAL pH < 2.0

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 12/2/93
Site Name: BURGESS BROS. SUPERFUND SITE
Site Location: BENNINGTON, VT.
Personnel: EJT, MAK, RPL, TEF
Weather: SUNNY 35°F
Well #/Sample Name: MW-25DT-3
Project #: 5271.002
Excavation Method: DEDICATED PUMP

Depth of Well * 203 ft.
Depth of Water * 25.30 ft.
Length of Water Column 177.70 ft.
Volume of Water in Well 28.96 gal.(s)
3X Volume of Water in Well ~87 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~60 gal.(s)
Did well go dry? YES

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings		
	Initial	
after ~29	(gal.)	5.4
after ~60	(gal.)	5.5
after	(gal.)	
after	(gal.)	
after	(gal.)	

pH Readings		
4.0 Standard		4
7.0 Standard		-
10.0 Standard		10
	Initial	
after ~29	(gal.)	8.9
after ~60	(gal.)	9.0
after	(gal.)	
after	(gal.)	
after	(gal.)	

Conductivity Readings		
84 S Standard		
1,000 ~~1413~~ S Standard		1,000
	Initial	
after ~29	(gal.)	151
after ~60	(gal.)	150
after	(gal.)	
after	(gal.)	
after	(gal.)	

Water Sample:

Time Collected 10:08

Physical Appearance

Color: RUSTY/PINK
Odor: NONE
Turbidity (> 100 NTUs): MOD
Sheen/Free Product: NONE

Dissolved Oxygen: 7.6 mg/l

Turbidity Reading	
Standard	0
Standard	
Initial	
after ~100	(gal)
after ~100	(gal)
after	(gal)
after	(gal)
after	(gal)

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

VOA VIAL pH <20

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date	12/02/93	Weather	Sunny 35°
Site Name	Burgess Brothers Superfund Site	Well #/Sample Name	W-09 B-3
Site Location	Bennington, Vermont	Project #	5271.001
Personnel	FJF, MAR, RPL, TEF	Excavation Method	Dedicated Pump

Depth of Well *	466 ft.
Depth of Water *	21-29 ft.
Length of Water Column	ft.
Volume of Water in Well	~ 160 gal.(s)
3X Volume of Water in Well	~ 480 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 480 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Top of Well Casing [ ] Top of Protective Casing [X] (Other, Specify) Grade

Water parameters:

Temperature Readings		pH Readings		Conductivity Readings	
		4.0 Standard	4.0		
		7.0 Standard	-	84 S Standard	80
		10.0 Standard	10.0	1413 S Standard	-
	Initial		Initial		Initial
after 160 (gal.)	6.5	after 160 (gal.)	7.5	after 160 (gal.)	40
after 320 (gal.)	6.6	after 320 (gal.)	7.5	after 320 (gal.)	36
after 480 (gal.)	6.5	after 480 (gal.)	7.5	after 480 (gal.)	40
after (gal.)		after (gal.)		after (gal.)	
after (gal.)		after (gal.)		after (gal.)	

Water Sample:

Time Collected 14:00

Physical Appearance

Color	clear/tan
Odor	none
Turbidity (> 100 NTUs)	>100
Sheen/Free Product	n/a

Dissolved Oxygen: -

Turbidity Reading	
Standard	0
Standard	10
Initial	
after 160 (gal)	> 100
after 320 (gal)	> 100
after 480 (gal)	> 100
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA PH < 2.0

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	~~11/30/93~~ (FJT) 12.2.93	Weather	SUNNY 35°F
Site Name	BURGESS BROS. SUPERFUND SITE	Well #/Sample Name	W-08B-3
Site Location	BENNINGTON, VT	Project #	5271.001
Personnel	FJT, MAR, RPC, TEF	Excavation Method	DEDICATED PUMP

Depth of Well * ** 449.36 ft.
Depth of Water * 53.96 ft.
Length of Water Column 395.40 ft.
Volume of Water in Well 133 gal.(s)
3X Volume of Water in Well ~400 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~400 gal.(s)
Did well go dry? No

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard	4.0		84 S Standard		
			7.0 Standard	—	1,000	~~1413~~ S Standard	1,000	
	Initial		10.0 Standard	10.0		Initial		
after ~133	(gal.)	7.5	Initial		after ~133	(gal.)	110	
after ~266	(gal.)	7.5	after ~133 (gal.)	7.0	after ~266	(gal.)	100	
after ~400	(gal.)	7.5	after ~266 (gal.)	7.2	after ~400	(gal.)	110	
after	(gal.)		after ~400 (gal.)	7.1	after	(gal.)		
after	(gal.)		after	(gal.)	after	(gal.)		

Water Sample:

Time Collected 0900

Physical Appearance — Dissolved Oxygen: 12 mg/l

Color CLEAR / TAN
Odor NONE
Turbidity (> 100 NTUs) >100
Sheen/Free Product NONE

Turbidity Reading		
Standard		
Standard		
Initial		
after ~133	(gal)	>100
after ~266	(gal)	~55
after ~400	(gal)	~100
after	(gal)	
after	(gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES: ** = 400 feet of 3" & 50 feet of 2"
VOA PH < 2.0

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	12/2/93	Weather	clear 40°
Site Name	Burgess Brothers Superfund	Well #/Sample Name	W-01B-3
Site Location	Bennington, VT	Project #	5271.002
Personnel	MAR/TF	Excavation Method	Redi-Flo Pump

Depth of Well *	290'-4" / 52'-3"	ft.
Depth of Water *	66.25	ft.
Length of Water Column	225.75	ft.
Volume of Water in Well	166.1	gal.(s) 147+ 19.1
3X Volume of Water in Well	498.3	gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~498 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

	Temperature Readings	pH Readings	Conductivity Readings
		4.0 Standard 4.0	
		7.0 Standard —	84 S Standard
		10.0 Standard 10.0	1,000 ~~1413~~ S Standard 1000
	initial 7.5	initial 9.1	initial 134
after	166 (gal.) 7.8	after 166 (gal.) 9.4	after 166 (gal.) 136
+ after	166 (gal.) 7.9	+ after 166 (gal.) 9.3	+ after 166 (gal.) 134
+ after	166 (gal.) 7.7	+ after 166 (gal.) 9.4	+ after 166 (gal.) 136
after	(gal.)	after (gal.)	after (gal.)
- after	(gal.)	after (gal.)	after (gal.)

Water Sample:
Time Collected 11:42

Physical Appearance

Color	Tan/Lt Brown
Odor	None
Turbidity (> 100 NTUs)	19.4
Sheen/Free Product	None

Dissolved Oxygen: 8.2 mg/l

Turbidity	Readin
Standard	
Standard	
Initial	19.4
after 166 (gal)	>100
+ after 166 (gal)	>100
+ after 166 (gal)	>100
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	(FJF) ~~11/30/93~~ 12/1/93	Weather	SUNNY - 45°
Site Name	BURGESS BROS. SF	Well #/Sample Name	D-04B-3
Site Location	BENNINGTON, VT.	Project #	5271.002
Personnel	MAR FJF (TEDD FISKE)	Excavation Method	[illegible]

Depth of Well * 478 ft.
Depth of Water * 28.12 ft.
Length of Water Column 449.8 ft.
Volume of Water in Well 155 ~~73.3~~ gal.(s)
3X Volume of Water in Well ~~220~~ 465 gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

147
8

Volume removed before sampling ~ 450 gal.(s)
Did well go dry? NO

* Measurements taken from [X] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard	4		84 S Standard	80	
			7.0 Standard	—		1413 S Standard	—	
			10.0 Standard	10				
	155	initial		155	initial		155	initial
after	~~73.3~~	(gal.) 7.5	after ~~73.3~~	(gal.) 8.2	after	~~73.3~~	(gal.) 120	
after	310	(gal.) 7.0	after 310	(gal.) 8.0	after	310	(gal.) 120	
after	~450	(gal.) 7.0	after ~450	(gal.) 8.0	after	~450	(gal.) 120	
after		(gal.)	after	(gal.)	after		(gal.)	
after		(gal.)	after	(gal.)	after		(gal.)	

Water Sample:

Time Collected 0900

Physical Appearance — Dissolved Oxygen: —

Color CLEAR TO BROWN / TAN
Odor NONE
Turbidity (> 100 NTUs) >100
Sheen/Free Product NONE

Turbidity	Readin
Standard	
Standard	
Initial	
after	(gal)
after	(gal)
after	(gal)
after	(gal)
after	(gal)

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:
VOA PH < 2

O'BRIEN & GERE ENGINEERS, INC. — Ground Water Sampling Log

Date: 11/22/93
Site Name: Burgess Bros. Superfund
Site Location: Bennington, VT
Personnel: RPL V
Weather: Sunny
Well #/Sample Name: Ryder Spring -3
Project #: 5271.001
Excavation Method:

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)
3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
Did well go dry? _____

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4		84 S Standard	80
			7.0 Standard				1,000 ~~1413~~ S Standard	920
			10.0 Standard		10		Initial	—
	Initial	~~9.6°C~~	Initial		—			
after	(gal.)	9.0°C	after	(gal.)	7.6	after	(gal.)	120
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	
after	(gal.)		after	(gal.)		after	(gal.)	

Water Sample:

Time Collected 13:32

Physical Appearance

Dissolved Oxygen: 8.8 mg/l

Color: CLEAR
Odor: NONE
Turbidity (> 100 NTUs):
Sheen/Free Product: No

*Sample taken from overflow pipe.

Turbidity Readin	
Standard	
Standard	
Initial	
after	(gal)
after	(gal)
after	(gal)
after	(gal)
after	(gal)

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date	11/23/93 & 12/1/93	Weather	Sunny
Site Name	Burgess Bros. Superfund	Well #/Sample Name	Olin-3
Site Location		Project #	5271.002
Personnel	MAR/RPL	Excavation Method	Homeowners well pump.

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water in Well _____ gal.(s)
3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
Did well go dry? _____

* Measurements taken from [ ] Top of Well Casing [ ] Top of Protective Casing [ ] (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard	4.0		~~84~~ 84 S Standard	80	
			7.0 Standard	—		1413 S Standard	—	
			10.0 Standard	10.0				
	Initial		Initial			Initial		
after	(gal.)	12	after (gal.)	7.4	after	(gal.)	110	
after	(gal.)		after (gal.)		after	(gal.)		
after	(gal.)		after (gal.)		after	(gal.)		
after	(gal.)		after (gal.)		after	(gal.)		
after	(gal.)		after (gal.)		after	(gal.)		

Water Sample:

Time Collected 0840

Physical Appearance — Dissolved Oxygen: —

Color _____
Odor _____
Turbidity (> 100 NTUs) _____
Sheen/Free Product _____

Sample taken after holding tank, but before filter system. Water allowed to run for 15 minutes prior to sampling.

Turbidity	Readin
Standard	
Standard	
Initial	
after (gal)	
after (gal)	
after (gal)	
after (gal)	
after (gal)	

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES: Lab exceeded holding time on 524.2 samples, which is reason resampling occured on 12/01/93.

O'BRIEN & GERE ENGINEERS, INC. — **Ground Water Sampling Log**

Date: [illegible]
Site Name: [illegible]
Site Location: [illegible]
Personnel: [illegible]
Weather:
Well #/Sample Name: Dickinson-3
Project #: 5727.00
Excavation Method: Homeowner Pump

Depth of Well * _____ ft.
Depth of Water * _____ ft.
Length of Water Column _____ ft.
Volume of Water In Well _____ gal.(s)
3X Volume of Water In Well _____ gal.(s)

Water Volume /ft. for:
2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
Did well go dry? _____

* Measurements taken from ☐ Top of Well Casing ☐ Top of Protective Casing ☐ (Other, Specify)

Water parameters:

Temperature Readings			pH Readings			Conductivity Readings		
			4.0 Standard		4.0	84 S Standard		80
			7.0 Standard		—	1,000 ~~1413~~ S Standard		920
			10.0 Standard		10.0			
	Initial	12	Initial		7.7	Initial		~~1310~~
after	_____ (gal.)	12	after	_____ (gal.)	7.7	after	_____ (gal.)	1310
after	_____ (gal.)		after	_____ (gal.)		after	_____ (gal.)	
after	_____ (gal.)		after	_____ (gal.)		after	_____ (gal.)	
after	_____ (gal.)		after	_____ (gal.)		after	_____ (gal.)	
after	_____ (gal.)		after	_____ (gal.)		after	_____ (gal.)	

Water Sample:
Time Collected [illegible]

Physical Appearance
Color: Clear
Odor: None
Turbidity (> 100 NTUs):
Sheen/Free Product: ND

Dissolved Oxygen: 8.5 mg/l

Turbidity Reading	
	Standard
	Standard
	Initial
after	_____ (gal)
after	_____ (gal)
after	_____ (gal)
after	_____ (gal)
after	_____ (gal)

well purged for 15 minutes using homeowner pump. Homeowner did not want the well purged any longer then 15 minutes.

Parameters of Samples:

Container Size	Container Type	# Collected	Filtered	Preservative	pH	Temp.	Conductuctivity

NOTES:

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 23, 1994	WEATHER: COLD / SNOW IN FORECAST
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: SBW-21-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/TEF/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	20.1	ft	WELL DIAMETER (inches): 2
Depth of Water*	17.14	ft	WATER VOLUME/FT
Length of Water Column*	2.96	ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	0.48	gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	1.4	gal	6" DIAMETER WELL = 1.469 X LWC
			LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

X Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 2:00 PM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 23, 1994	WEATHER: COLD / SNOW FORECASTED
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-0851-04
SITE LOCATION: BENNINGTON, VT	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/TEF/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	27.3	ft	WELL DIAMETER (inches): 2
Depth of Water*	22.48	ft	WATER VOLUME/FT 2" DIAMETER WELL= 0.163 X LWC 4" DIAMETER WELL= 0.653 X LWC 6" DIAMETER WELL= 1.469 X LWC
Length of Water Column*	4.82	ft	
Volume of Water in Well	0.79	gal	
3xVolume of Water in Well	2.37	gal	LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

X Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 2:50 PM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 23, 1994	WEATHER: COLD / SNOW FORECASTED
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-25 SI-0A
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	12.45	ft	WELL DIAMETER (inches): 2
Depth of Water*	5.91	ft	WATER VOLUME/FT
Length of Water Column*	6.54	ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	1.0	gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	3.0	gal	6" DIAMETER WELL = 1.469 X LWC
			LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

__X__ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 3:55 PM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB 24, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-0751-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	17.0	ft	WELL DIAMETER (inches): 2
Depth of Water*	10.52	ft	WATER VOLUME/FT
Length of Water Column*	6.48	ft	2" DIAMETER WELL= 0.163 X LWC
Volume of Water in Well	1.0	gal	4" DIAMETER WELL= 0.653 X LWC
3xVolume of Water in Well	3.0	gal	6" DIAMETER WELL= 1.469 X LWC
			LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

X Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 10:15 AM	Odor:
Sheen or Free Product:	Color:

NOTES

SPLIT SAMPLE WITH KAREN WEDLOCK-HUNT (M&E)

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 24, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-0951-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	12.4	ft	WELL DIAMETER (inches): 2
Depth of Water*	4.62	ft	WATER VOLUME/FT
Length of Water Column*	7.78	ft	2" DIAMETER WELL= 0.163 X LWC
Volume of Water in Well	1.3	gal	4" DIAMETER WELL= 0.653 X LWC
3xVolume of Water in Well	3.9	gal	6" DIAMETER WELL= 1.469 X LWC
			LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

__X__ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 11:10 AM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC. — GROUND WATER SAMPLING LOG

DATE: FEB. 24, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-0151-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	14.20	ft	WELL DIAMETER (inches): 2
Depth of Water*	9.47	ft	WATER VOLUME/FT
Length of Water Column*	4.73	ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	0.77	gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	2.3	gal	6" DIAMETER WELL = 1.469 X LWC
			LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

X Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	Odor:
Time of collection: 11:45 AM	Color:
Sheen or Free Product:	

NOTES

O'BRIEN & GERE ENGINEERS, INC. — GROUND WATER SAMPLING LOG

DATE: FEB. 24, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-01-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.004
PERSONNEL: RPL/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	19.79	ft	WELL DIAMETER (inches): 2
Depth of Water*	8.81	ft	WATER VOLUME/FT
Length of Water Column*	10.98	ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	1.8	gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	5.4	gal	6" DIAMETER WELL = 1.469 X LWC
			LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 3:15 PM

Sheen or Free Product:

Odor:

Color:

NOTES MS/MSD COLLECTED AT THIS LOCATION

O'BRIEN & GERE ENGINEERS, INC. — GROUND WATER SAMPLING LOG

DATE: FEB. 24, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-11S1-04
SITE LOCATION: BENNINGTON, VT	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL / MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	10.1	ft	WELL DIAMETER (inches): 2
Depth of Water*	3.28	ft	WATER VOLUME/FT
Length of Water Column*	6.82	ft	2" DIAMETER WELL= 0.163 X LWC
Volume of Water in Well	1.1	gal	4" DIAMETER WELL= 0.653 X LWC
3xVolume of Water in Well	3.3	gal	6" DIAMETER WELL= 1.469 X LWC
			LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 2:50 PM

Sheen or Free Product:

Odor:

Color:

NOTES

SPLIT SAMPLES WITH M & E

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 24, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-2251-04
SITE LOCATION: BENNINGTON, VT	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	11.2	ft	WELL DIAMETER (inches): 2
Depth of Water*	2.94	ft	WATER VOLUME/FT
Length of Water Column*	8.26	ft	2" DIAMETER WELL= 0.163 X LWC
Volume of Water in Well	1.3	gal	4" DIAMETER WELL= 0.653 X LWC
3xVolume of Water in Well	4.0	gal	6" DIAMETER WELL= 1.469 X LWC
			LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 3:40 PM	Odor:
Sheen or Free Product:	Color:

NOTES

SPLIT SAMPLES WITH M&E

VERY SLOW RECOVERY. WELL WENT DRY DURING SAMPLING. FINISHED SAMPLING FOR METALS ON FEB. 25, 1995.

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 25, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-1251-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	10.1	ft	WELL DIAMETER (inches): 2
Depth of Water*	2.28	ft	WATER VOLUME/FT 2" DIAMETER WELL= 0.163 X LWC 4" DIAMETER WELL= 0.653 X LWC 6" DIAMETER WELL= 1.469 X LWC
Length of Water Column*	7.82	ft	
Volume of Water in Well	1.3	gal	
3xVolume of Water in Well	4.0	gal	LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 11:15 AM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB. 28, 1994	WEATHER: SUNNY 5° F
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-08SI-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	141.3 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	131.0 ft	WELL DIAMETER (inches): 2
Depth of Water*	39.60 ft	WATER VOLUME/FT
Length of Water Column*	91.40 ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	14.9 gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	45.0 gal	6" DIAMETER WELL = 1.469 X LWC
		LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 11:30 AM.	Odor:
Sheen or Free Product:	Color:

NOTES

WELL WENT DRY AFTER 20 GALS. PURGED

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: FEB 28, 1994	WEATHER: SUNNY 5° F
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-25 SI-04
SITE LOCATION: BENNINGTON, VT	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	130.50	ft	WELL DIAMETER (inches): 2
Depth of Water*	18.26	ft	WATER VOLUME/FT
Length of Water Column*	112.24	ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	18.3	gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	55.0	gal	6" DIAMETER WELL = 1.469 X LWC
			LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 1:40 PM

Sheen or Free Product:

Odor:

Color:

NOTES BLIND DUPLICATE BD-2-4 COLLECTED AT THIS LOCATION.

O'BRIEN & GERE ENGINEERS, INC. — GROUND WATER SAMPLING LOG

DATE: FEB. 28, 1994	WEATHER: SUNNY 5° F
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-09SI-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: SS BAILER

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	109.0 ft	WELL DIAMETER (inches): 2
Depth of Water*	10.11 ft	WATER VOLUME/FT
Length of Water Column*	98.89 ft	2" DIAMETER WELL= 0.163 X LWC
Volume of Water in Well	16.0 gal	4" DIAMETER WELL= 0.653 X LWC
3xVolume of Water in Well	48.0 gal	6" DIAMETER WELL= 1.469 X LWC
		LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 3:00 PM

Sheen or Free Product:

Odor:

Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 1, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: RYDER SPRING-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/TEF/MCJ	EXCAVATION METHOD:

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	ft	WELL DIAMETER (inches):
Depth of Water*	ft	WATER VOLUME/FT 2" DIAMETER WELL= 0.163 X LWC 4" DIAMETER WELL= 0.653 X LWC 6" DIAMETER WELL= 1.469 X LWC
Length of Water Column*	ft	
Volume of Water in Well	gal	
3xVolume of Water in Well	gal	LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

_____ Top of Well Casing _____Top of Protective Casing _____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 9:25 AM	Odor:
Sheen or Free Product:	Color:

NOTES MS/MSD COLLECTED AT THIS LOCATION.
SPLIT SAMPLES W/ M & E.

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 1, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: DICKINSON - 04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL / TEF / MCJ	EXCAVATION METHOD: RESIDENCE PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	ft	WELL DIAMETER (inches):
Depth of Water*	ft	WATER VOLUME/FT 2" DIAMETER WELL = 0.163 X LWC 4" DIAMETER WELL = 0.653 X LWC 6" DIAMETER WELL = 1.469 X LWC
Length of Water Column*	ft	
Volume of Water in Well	gal	
3xVolume of Water in Well	gal	LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

_____ Top of Well Casing ____Top of Protective Casing _____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 10:00 AM	Odor:
Sheen or Free Product:	Color:

NOTES

BLIND DUPLICATE BD-3-4 TAKEN AT THIS LOCATION

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 1, 1994	WEATHER:
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: OLIN - 04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: RESIDENCE PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	ft	WELL DIAMETER (inches):
Depth of Water*	ft	WATER VOLUME/FT 2" DIAMETER WELL= 0.163 X LWC 4" DIAMETER WELL= 0.653 X LWC 6" DIAMETER WELL= 1.469 X LWC
Length of Water Column*	ft	
Volume of Water in Well	gal	
3xVolume of Water in Well	gal	LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

_____ Top of Well Casing _____Top of Protective Casing _____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 10:20 AM	Odor:
Sheen or Free Product:	Color:

NOTES

SPLIT SAMPLES WITH M & E

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 2, 1994	WEATHER: SUNNY & COLD
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-04 SI-04
SITE LOCATION: BENNINGTON, VT	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	112 ft	WELL DIAMETER (inches): 2
Depth of Water*	9.84 ft	WATER VOLUME/FT 2" DIAMETER WELL= 0.163 X LWC 4" DIAMETER WELL= 0.653 X LWC 6" DIAMETER WELL= 1.469 X LWC
Length of Water Column*	102.16 ft	
Volume of Water in Well	16.7 gal	
3xVolume of Water in Well	50.0 gal	LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 10:40 AM

Sheen or Free Product:

Odor:

Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 2, 1994	WEATHER: SUNNY & COLD
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-09B-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	466.0	ft	WELL DIAMETER (inches): 3
Depth of Water*	13.66	ft	WATER VOLUME/FT
Length of Water Column*	452.34	ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	155.6	gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	467.0	gal	6" DIAMETER WELL = 1.469 X LWC
			LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

__X__ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 12:00 PM

Sheen or Free Product:

Odor:

Color:

NOTES

SPLIT SAMPLES WITH M&E

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 2, 1994	WEATHER: SUNNY & COLD
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-04DI-04
SITE LOCATION: BENNINGTON, VT	PROJECT NUMBER#: 5271.003
PERSONNEL: TRL/MCJ/TEF	EXCAVATION METHOD: PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	157.0 ft	WELL DIAMETER (inches): 2
Depth of Water*	6.65 ft	WATER VOLUME/FT
Length of Water Column*	150.35 ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	24.5 gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	73.5 gal	6" DIAMETER WELL = 1.469 X LWC
		LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 2:50 PM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 2, 1994	WEATHER: SUNNY & COLD
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-04B-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL | MCJ | TEF	EXCAVATION METHOD: PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	478.0 ft	WELL DIAMETER (inches):	3
Depth of Water*	20.60 ft	WATER VOLUME/FT	
Length of Water Column*	457.40 ft	2" DIAMETER WELL= 0.163 X LWC	
Volume of Water in Well	157 gal	4" DIAMETER WELL= 0.653 X LWC	
3xVolume of Water in Well	471 gal	6" DIAMETER WELL= 1.469 X LWC	
		LWC= Length of water column	

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 1:40 PM	Odor:
Sheen or Free Product:	Color:

NOTES

BLIND DUPLICATE BD-1-A COLLECTED AT THIS LOCATION.

O'BRIEN & GERE ENGINEERS, INC. — GROUND WATER SAMPLING LOG

DATE: MARCH 2, 1994	WEATHER: SUNNY & COLD
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-25DI-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: PUMP (DEDICATED)

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	203.0 ft	WELL DIAMETER (inches): 2
Depth of Water*	21.46 ft	WATER VOLUME/FT
Length of Water Column*	181.54 ft	2" DIAMETER WELL = 0.163 X LWC
Volume of Water in Well	29.6 gal	4" DIAMETER WELL = 0.653 X LWC
3xVolume of Water in Well	89.0 gal	6" DIAMETER WELL = 1.469 X LWC
		LWC = Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES

Time of collection: 3:35 PM

Sheen or Free Product:

Odor:

Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 3, 1995	WEATHER: SNOW 23°F
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-01B-04
SITE LOCATION: BENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	342.58 ft	WELL DIAMETER (inches):
Depth of Water*	59.02 ft	WATER VOLUME/FT 2" DIAMETER WELL= 0.163 X LWC 4" DIAMETER WELL= 0.653 X LWC 6" DIAMETER WELL= 1.469 X LWC
Length of Water Column*	283.56 ft	
Volume of Water in Well	170 gal	
3xVolume of Water in Well	510 gal	LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 11:25 AM	Odor:
Sheen or Free Product:	Color:

NOTES

O'BRIEN & GERE ENGINEERS, INC.	GROUND WATER SAMPLING LOG
DATE: MARCH 3, 1994	WEATHER: SNOW 23°
SITE NAME: BURGESS BROTHERS	WELL IDENTIFICATION: W-07SI-04
SITE LOCATION: RENNINGTON, VT.	PROJECT NUMBER#: 5271.003
PERSONNEL: RPL/MCJ/TEF	EXCAVATION METHOD: PUMP

pH METER	CONDUCTIVITY METER	TURBIDITY METER
4.0 STANDARD:	84 uS STANDARD:	10 NTU STANDARD:
7.0 STANDARD:	1413 uS STANDARD:	100 NTU STANDARD:

Depth of Well*	118.0 ft	WELL DIAMETER (inches): 2
Depth of Water*	51.11 ft	WATER VOLUME/FT
Length of Water Column*	66.89 ft	2" DIAMETER WELL= 0.163 X LWC
Volume of Water in Well	10.9 gal	4" DIAMETER WELL= 0.653 X LWC
3xVolume of Water in Well	33 gal	6" DIAMETER WELL= 1.469 X LWC
		LWC= Length of water column

*MEASUREMENTS TAKEN FROM:

✓ Top of Well Casing ____ Top of Protective Casing ____ Other (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (° C)	pH Reading	Conductivity (uS)	Turbidity (NTU)
Initial	NA				
1st	gal				
2nd	gal				
3rd	gal				
4th	gal				
5th	gal				

WATER SAMPLES	
Time of collection: 12:00 PM	Odor:
Sheen or Free Product:	Color:

NOTES

WELL DRY AFTER ONE VOLUME PURGED: SAMPLED AFTER WELL RECOVERED.

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 5, 1994**	**WEATHER:**	**Sunny, 75°F**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-01DI-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Pump**

Depth of Well*	236.00	ft	DID THE WELL GO DRY? Yes; after 3 volumes removed.
Depth of Water*	68.28	ft	WATER VOLUME/FT 2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Length of Water Column*	167.72	ft	
Volume of Water in Well	27.34	gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	82	gal	

*MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	11.6	7.9	89	<100	6.2
1st	27 gal	11.8	8.4	95	<100	5.4
2nd	54 gal	11.9	8.7	43	<100	5.2
3rd	82 gal	12.3	9.2	78	<100	5.4
4th	gal					
5th	gal					

NOTE: Blind Duplicate #1 retrieved from this location.

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 5, 1994**	**WEATHER:**	**Sunny, 75°F**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-01-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Bailer**

Depth of Well*	19.79 ft	DID THE WELL GO DRY? Yes; during fourth volume.
Depth of Water*	5.74 ft	WATER VOLUME/FT 2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Length of Water Column*	14.05 ft	
Volume of Water in Well	2.30 gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	7.0 gal	

*MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	13.2	7.4	150	>100	10.4
1st	2.3 gal	13.1	7.8	139	>100	9.8
2nd	4.6 gal	11.6	8.3	107	>100	9.8
3rd	7.0 gal	12.1	8.7	71	>100	10.0
4th	9.0 gal	11.7	8.8	59	>100	9.8
5th	gal					

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Muggy, Overcast**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-27T-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EVACAVATION METHOD:**	**Bailer**

Depth of Well*	36.03 ft	DID THE WELL GO DRY? Yes; 3 volumes removed.
Depth of Water*	15.53 ft	WATER VOLUME/FT 2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC LWC= LENGTH OF WATER COLUMN
Length of Water Column*	20.50 ft	
Volume of Water in Well	3.3 gal	
Volume of ıter in Well	10.0 gal	

*MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	13.9	7.4	1135	<100	2.7
1st	3.3 gal	14.2	8.5	129	>100	4.4
2nd	6.6 gal	11.8	2.8	20	>100	6.5
3rd	10.0 gal	12.3	2.5	24	>100	8.0
4th	gal					
	gal					

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Sunny, Muggy**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-27S1-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Bailer**

Depth of Well*	21.67 ft	DID THE WELL GO DRY? No.
Depth of Water*	15.68 ft	WATER VOLUME/FT 2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC LWC= LENGTH OF WATER COLUMN
Length of Water Column*	5.99 ft	
Volume of Water in Well	1 gal	
Volume of ater in Well	3 gal	

*MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	11.0	8.5	272	>100	5.9
1st	1 gal	11.0		007 (?)	>100	6.4
2nd	2 gal	11.4	6.8	904	>100	5.8
3rd	3 gal	14.0	6.7	770	>100	6.7
4th	gal					
	gal					

BB1:gws-27s1.log

NOTE: Conductivity meter does not appear to be giving reliable readings - new batteries were installed in meter after this well was sampled.

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Sunny, Hot**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-22T-05**
SITE LO CATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Bailer**

Depth of Well*	30.70 ft	DID THE WELL GO DRY? Yes; after two volumes removed.
Depth of Water*	1.76 ft	WATER VOLUME/FT
Length of Water Column*	28.94 ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	4.75 gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	14.25 gal	

*MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	19.1	7.7	414	~100	5.1
1st	4.75 gal	15.8	7.7	329	>100	3.4
2nd	9.50 gal	14.8	7.7	322	>100	6.2
3rd	14.25 gal					
4th	gal					
	gal					

NOTE: Sampled after two volumes removed; well went dry.

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Sunny, Muggy**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-26T-05**
SITE LOCATION:	**Bennington VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Bailer**

Depth of Well*	22.20	ft	DID THE WELL GO DRY? No.
Depth of Water*	14.28	ft	WATER VOLUME/FT
Length of Water Column*	7.92	ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	1.3	gal	LWC= LENGTH OF WATER COLUMN
3xVolume of 'ater in Well	4.0	gal	

MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed			Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0	gal	13.8	7.1	158	>100	11.6
1st	1.3	gal	13.4	6.9	132	>100	9.8
2nd	2.6	gal	12.9	6.4	140	>100	9.6
3rd	4.0	gal	13.3	6.6	188	>100	9.5
4th		gal					
		gal					

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Sunny, Muggy, ±85°F**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-TP12-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Bailer**

Depth of Well*	29.50 ft	DID THE WELL GO DRY? No.
Depth of Water*	22.53 ft	WATER VOLUME/FT
Length of Water Column*	6.97 ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	1.14 gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	3.5 gal	

*MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	14.2	5.8	1236	>100	6.4
1st	1.14 gal	14.0	5.7	1210	>100	5.8
2nd	2.28 gal	13.3	5.7	1223	>100	6.4
3rd	3.5 gal	14.6	5.8	1265	>100	6.6
4th	gal					
	gal					

NOTE: Sheen noticable on water; slight odor.

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Sunny, Muggy**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**W-04T-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	**Bailer**

Depth of Well*	30.00 ft	DID THE WELL GO DRY? No.
Depth of Water*	0.53 ft	WATER VOLUME/FT
Length of Water Column*	29.47 ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	4.8 gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	14.4 gal	

MEASUREMENTS TAKEN FROM:

_✓__ TOP OF WELL PVC CASING ____TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	12.3	7.7	603	<100	9.5
1st	4.8 gal	12.4	7.6	342	<100	5.4
2nd	9.6 gal	12.7	7.6	318	<100	4.6
3rd	14.4 gal	12.6	7.6	327	<100	5.2
4th	gal					
h	gal					

O'BRIEN & GERE ENGINEERS, INC. GROUND WATER SAMPLING LOG

DATE:	**July 6, 1994**	**WEATHER:**	**Sunny, Hot**
SITE NAME:	**Burgess Brothers, Inc.**	**WELL IDENTIFICATION:**	**Dickinson-05**
SITE LOCATION:	**Bennington, VT**	**PROJECT NUMBER#:**	**5271.003**
PERSONNEL:	**Russ Lagueux, Ted Fiske**	**EXCAVATION METHOD:**	

Depth of Well*	22	ft	DID THE WELL GO DRY?
Depth of Water*	11	ft	WATER VOLUME/FT
Length of Water Column*	11	ft	2" Diameter Well= 0.163xLWC 4" Diameter Well= 0.653xLWC 6" Diameter Well= 1.469xLWC
Volume of Water in Well	582	gal	LWC= LENGTH OF WATER COLUMN
3xVolume of Water in Well	1746	gal	

MEASUREMENTS TAKEN FROM:

____ TOP OF WELL PVC CASING _✓__TOP OF PROTECTIVE CASING

_____ OTHER (specify):

WATER PARAMETERS

Volume of Water Bailed		Temperature (°C)	pH Reading	Conductivity (uS)	Turbidity (NTU)	DO (mg/l)
Initial	0 gal	16.8	6.4	847	<50	5.8
1st	gal					
2nd	gal					
3rd	gal					
4th	gal					
	gal					

BB1:gws-dick.log

NOTE: 11 ft. of water, 3' diameter well = 582 gas/vol.
582 x 3 = 1746 ∴ impractical to purge well. See field log book.

Appendix 21

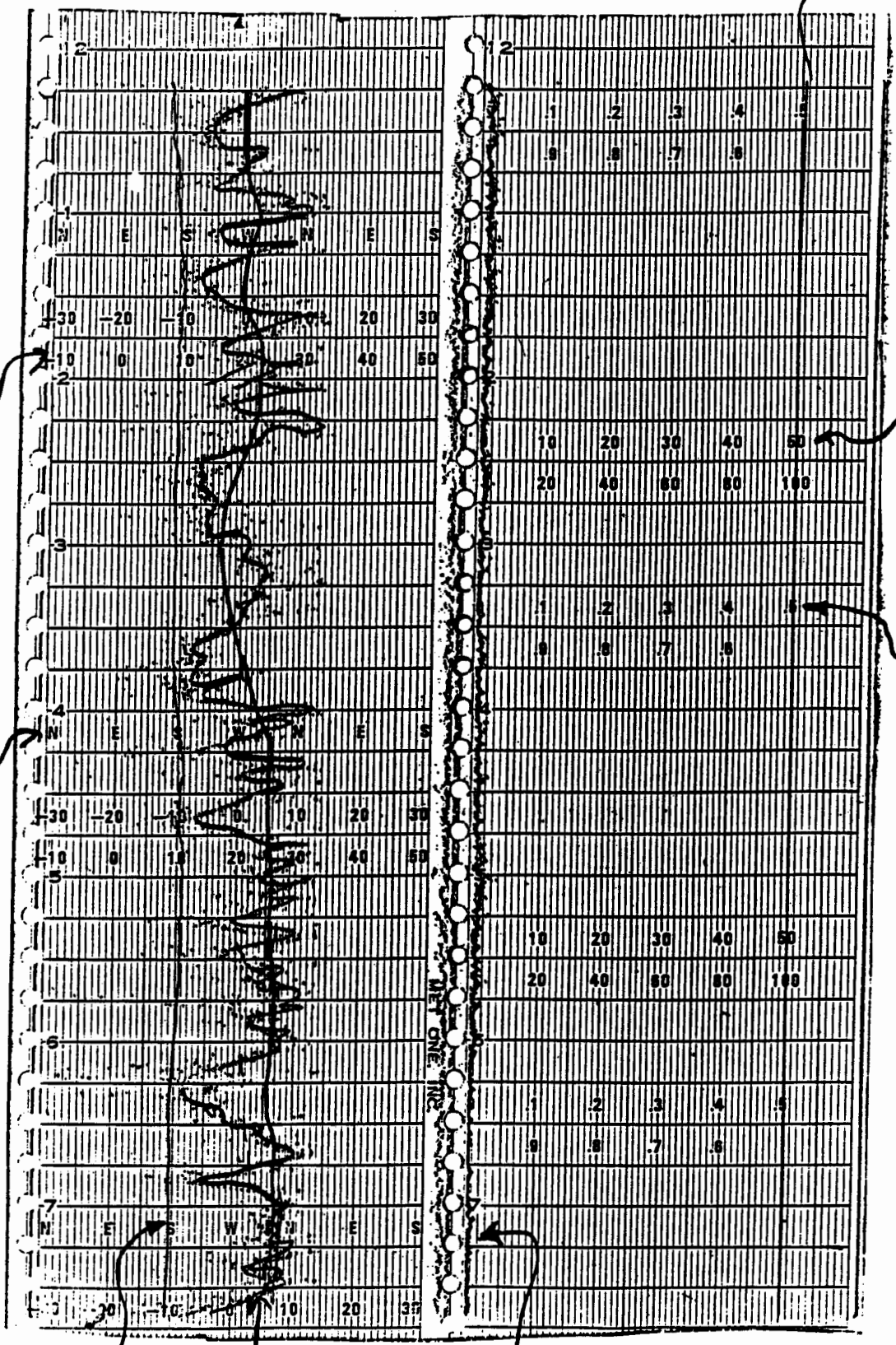
BURGESS BROTHER

METEOROLOGICAL STRIP CHART RECORDING

OCTOBER 16, 1992

MONITORING STARTED = 9:35

MONITORING CONCLUDED = 17:05



BAROMETRIC PRESSURE

TEMPERATURE SCALE (°C)

WIND SPEED SCALE

BAROMETRIC PRESSURE SCALE

WIND DIRECTION SCALE

TEMPERATURE

WIND DIRECTION

WIND SPEED

Appendix 22

HALEY & ALDRICH, INC.

Geotechnical Engineers &
Environmental Consultants

1 June 1993
File No. 11016-04

O'Brien & Gere Engineers, Inc.
1200 Crown Colony Drive
Quincy, Massachusetts 02169

Attention: Mr. Richard G. Stromberg

Subject: Report on Geotechnical Analyses
Burgess Brothers Superfund Site
Bennington, Vermont

Gentlemen:

This letter presents the results of the geotechnical laboratory analyses of soil samples taken from the Burgess Brothers Superfund Site in Benninton, Vermont. This work was performed in accordance with our proposal dated 1 October 1992.

GEOTECHNICAL LABORATORY PROGRAM AND PROCEDURES

The scope of the laboratory test program, choice of the specific soil samples to be tested, and the tests to be performed, were established by O'Brien & Gere Engineers, Inc. (O'B&G).

Ten samples were delivered to Haley & Aldrich, Inc. (H&A) by O'B&G on 2 October 1992. Each sample consisted of two sealed plastic containers of undisturbed soil and a third sealed container for classification tests. Three additional samples of boring cuttings were received by H&A on 2 April 1993. The soil testing program included analyses for classification purposes and permeability. In addition, the porosity of each undisturbed sample was calculated based on the sample water content, unit weight, and the specific gravity of the soil.

Table I summarizes the number of each test type assigned and performed. The following report sections describe test procedures utilized by each respective test type. Data and test results are organized into appendicies which are referenced in the text.

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Cambridge, MA 02141
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CLASSIFICATION TESTS

The as-received water content of all samples were determined in general conformance with American Society of Testing Materials (ASTM) standard D 2216. The Grain Size Distribution of the samples were determined in general conformance with ASTM standards D 421 and D 422. The specific gravity test and Atterberg limits were determined in general conformance with the ASTM standards D 854 and D 4318, respectively. The results of all classification tests are included in Appendix A.

POROSITY

The porosity of each undisturbed sample was calculated based on the water content, dry unit weight, and specific gravity measured for each sample. Two containers of undisturbed soil were received for each sample. The volume, wet sample weight, and water content were determined for each container. The porosity of a sample was calculated using the averaged results from both containers of soil. The porosities calculated for SWB-14 and SWB-15 are based on a single container of soil because of obvious disturbance observed in one of the two containers. Table II summarizes the calculated sample porosity.

CONSTANT HEAD PERMEABILITY TEST PROCEDURE

Laboratory compacted permeability specimens were prepared at the as-received water contents using the compaction methods specified by O'B&G. Samples were mixed to the desired water content and were allowed to cure. Permeability specimens for samples SBW-10 and SBW-13 were prepared in a 2.87 in. mold in general conformance with ASTM standard D 4254 to produce a test sample with the low unit weights measured in the undisturbed soil samples. All other specimens were compacted in lifts of equal thickness in a 2.87 in. diameter rigid wall mold using a Harvard Miniature spring-loaded hammer. The specimens were compacted using five lifts and 10 blows per lift (the minimum recommended) to produce a homogeneous test sample. The completed specimens were then weighed and their dimensions were measured. Details related to the dimensions, initial water contents and unit weights are presented on the Test Summary Data Sheets contained in Appendix B.

Permeability tests were performed in general conformance with Army Corps of Engineers standard EM 1110-2-1906, Appendix VII. Due to the coarse-grained and non-cohesive nature of the soil samples, permeabilities were determined using a Karol Warner model S3815 Shelby tube permeability tester. The tester is a

frame that seals a length of Shelby tube containing the permeability specimen into a water-tight unit, utilizing the tube liner as the body of the permeameter. Using a tube liner as both the specimen mold and the body of the permeameter, allows for the support of the non-cohesive sample during testing and eliminates the need to extrude the sample, reducing sample disturbance.

The Shelby tube permeameter tests were performed as constant head tests. The sample was attached to a water reservoir which was maintained at a constant water level. Filter paper and deaired (boiled) filter stones separated the sample from the permeameter end caps. To attain saturation, the sample was soaked under a partial vacuum. Water was allowed to flow through the sample while a hydraulic gradient was generated across the sample using a vacuum source.

The permeability of each sample was determined by measuring the flow through the sample when it was subjected to a head difference between the top and bottom of the specimen. The head was varied by changing the distance between the top of the water reservoir and the bottom of the sample.

Flow was directed upwards through the sample. The permeant was tap water which was maintained at an ambient temperature equal to approximately 21 degrees Celsius. Volume change was measured using a burette, readable to 0.05 cubic centimeters, which was connected to the bottom of the sample.

Details pertinent to each test regarding the gradients applied, the volume of permeant forced through the sample, and the effective stresses at the top and bottom of the sample are provided on the summary data sheets prepared for each test.

CLOSURE

Should you have any questions regarding the results presented herein or should you require further geotechnical consultation, please do not hesitate to call us. We appreciate the opportunity to have worked with you on this project.

Sincerely yours,
HALEY & ALDRICH, INC.

Mark P. Dobday, P.G.
Manager of Geotechnical Laboratory

Bruce E. Beverly, P.E.
Senior Vice President

MPD:BEB:cc/MPD001D:12301604.WPF
Enclosures:

Table I	- Summary of Geotechnical Testing Program
Table II	- Sample Porosity
Appendix A	- Classification and Compaction Results
Appendix B	- Constant Head Permeability Tests Results

TABLE I

SUMMARY OF GEOTECHNICAL LABORATORY TESTING PROGRAM

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON, VERMONT

Test Type	Number of Tests
Water Content (both as received and at time of unit weight determination)	23
Grain-size Analysis (sieve and hydrometer tests)	13
Atterberg Limits	10
Specific Gravity	10
Unit Weight	10
Porosity	10
Constant Head Permeability	10

FILE NO

HALEY & ALDRICH, INC.

TABLE II

SAMPLE POROSITY

BURGESS BROS. SUPERFUND SITE
BURLINGTON, VT

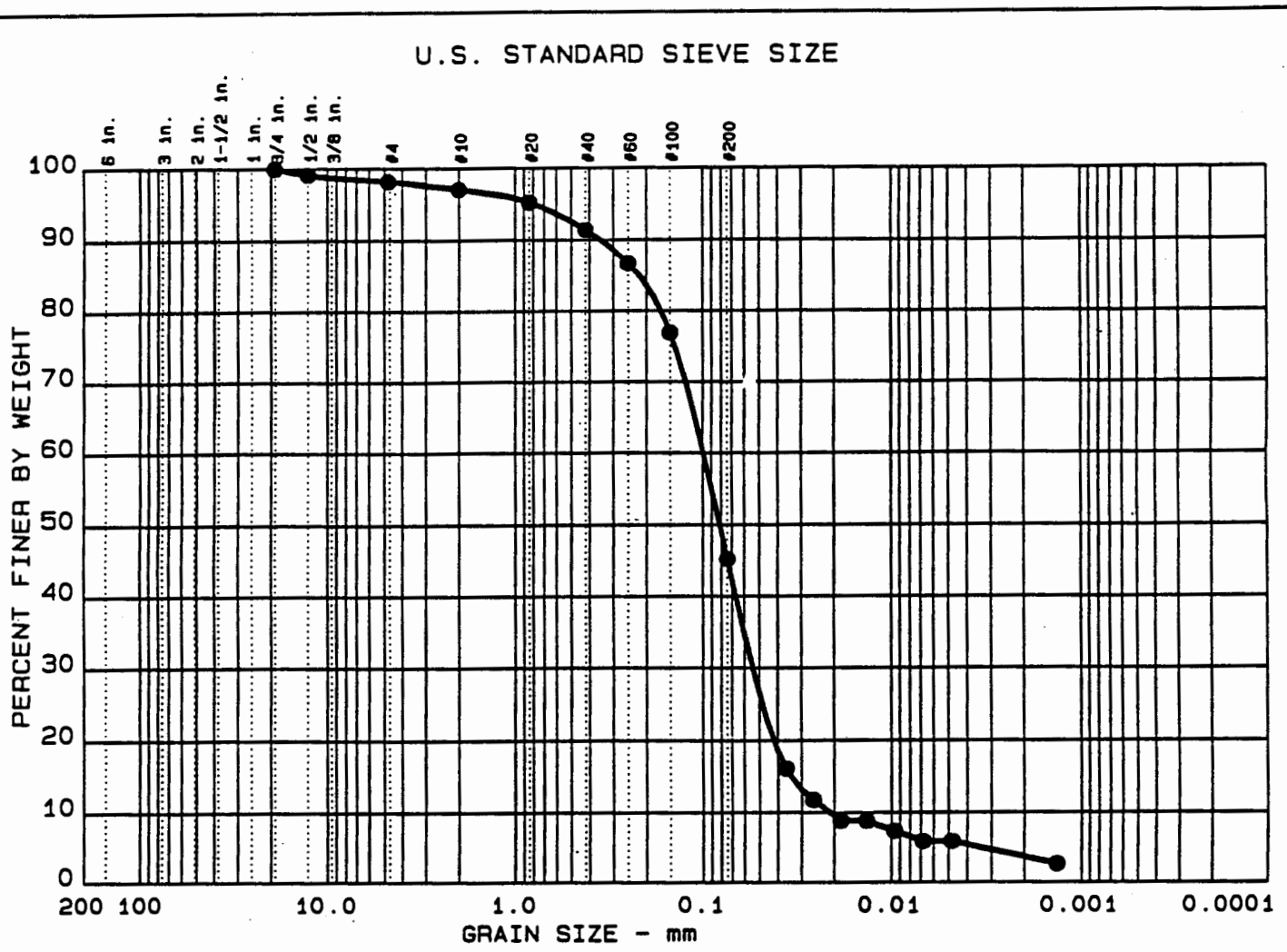
SAMPLE NUMBER	AVERAGE WATER CONTENT * (%)	AVERAGE DRY UNIT WT. (pcf)	SPECIFIC GRAVITY	AVERAGE TOTAL SAMPLE VOLUME (sq.ft)	VOLUME DRY SOIL (sq.ft)	VOLUME WATER (sq.ft)	VOLUME AIR (sq.ft)	VOLUME OF VOIDS (sq.ft)	POROSITY n (%)
SBW-10	6.3	78.2	2.656	0.0552	0.0260	0.0044	0.0247	0.0291	52.8%
SBW-13	5.4	77.4	2.648	0.0571	0.0267	0.0038	0.0266	0.0304	53.2%
SBW-14	7.3	71.4	2.642	0.0325	0.0262	0.0051	0.0012	0.0063	19.3%
SBW-15	14.5	55.2	2.623	0.0309	0.0208	0.0079	0.0021	0.0101	32.6%
SBW-16	13.6	71.4	2.641	0.0621	0.0269	0.0097	0.0255	0.0352	56.6%
SBW-17	18.7	66.2	2.563	0.0654	0.0270	0.0130	0.0254	0.0384	58.7%
SBW-18	9.3	77.7	2.635	0.0553	0.0261	0.0064	0.0228	0.0292	52.7%
SBW-19	8.8	77.0	2.624	0.0651	0.0306	0.0070	0.0274	0.0345	53.0%
SBW-20	8.6	79.4	2.648	0.0624	0.0299	0.0068	0.0256	0.0324	52.0%
SBW-21	14.6	72.4	2.642	0.0643	0.0282	0.0109	0.0252	0.0361	56.1%

* Water contents reported are the water contents determined when the soil samples were weighed and are not the as-received natural water content.

28-May-93 ; 01604TB2.WK1

APPENDIX A

Classification and Compaction Results



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	1.8	53.0	41.5	3.7

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW10	0.0-0.5			NP	7.9	4.7	1.41	SM

	Sample Description
●	

Remarks:

SBW10 is Non-Plastic

Specific Gravity = 2.656

Porosity, n = 52.8 %

GS1.SDT - 05/27/93

HALEY & ALDRICH INC.

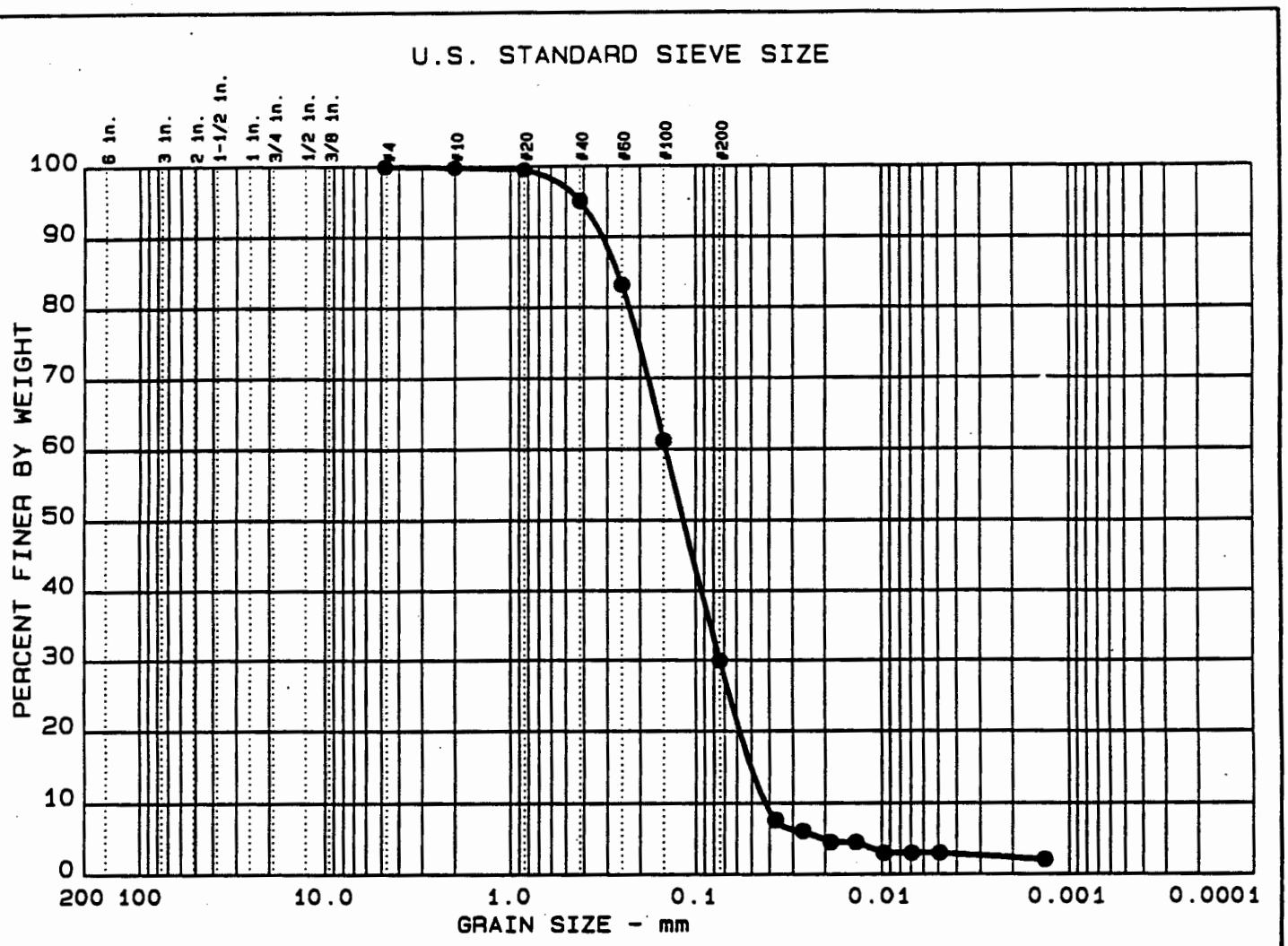
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site

Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	0.0	70.0	27.6	2.4

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW13	0.0-0.5			NP	4.2	3.4	0.90	SM

	Sample Description
●	

Remarks:

SBW13 is Non-Plastic

Specific Gravity = 2.648

Porosity, n = 53.2 %

GS2.SDT - 05/27/93

HALEY & ALDRICH INC.

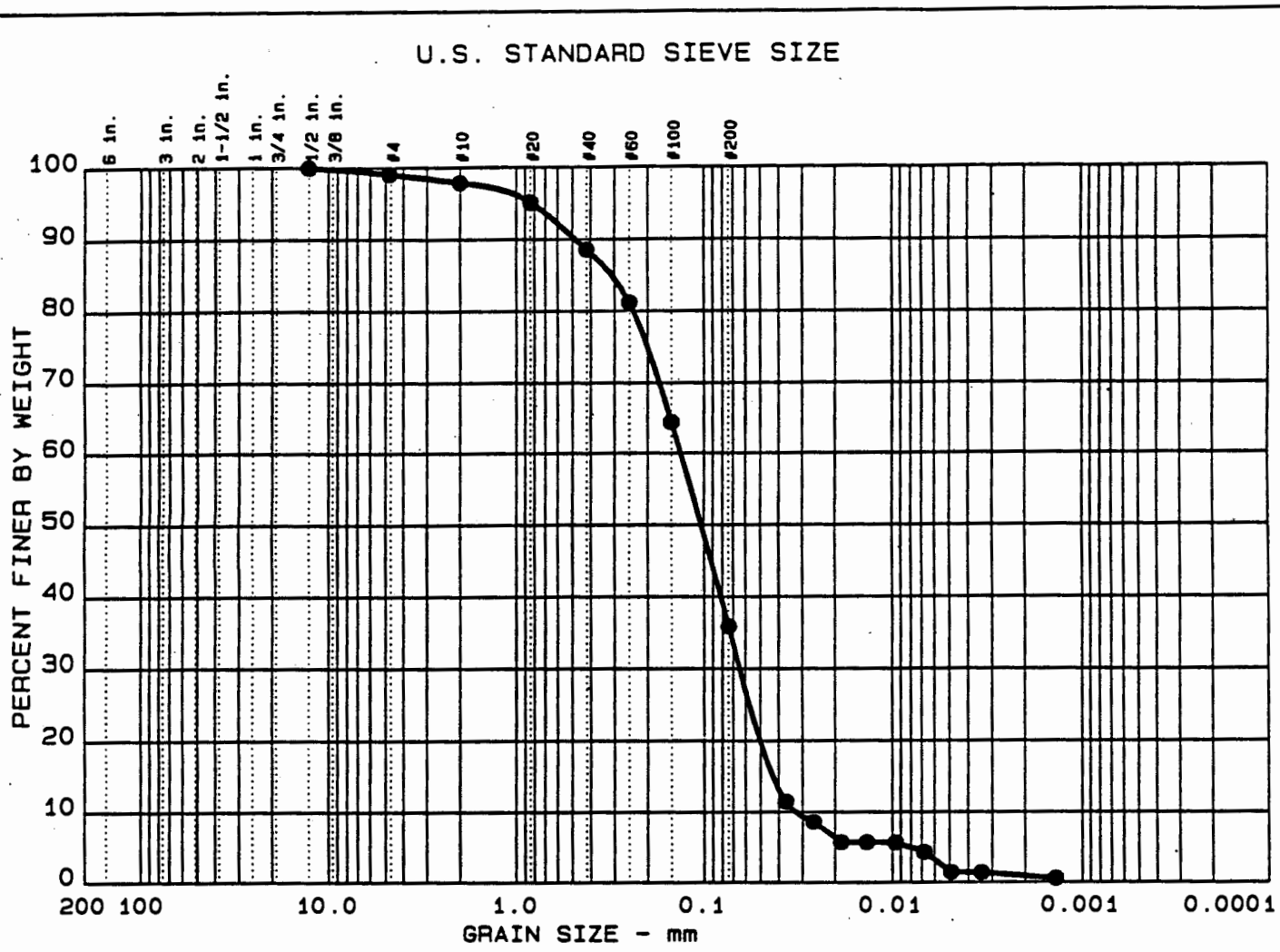
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site

Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	0.9	63.3	34.9	0.9

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW14	0.0-0.5			NP	9.8	4.1	0.96	SM

	Sample Description
●	

Remarks:

SBW14 is Non-Plastic

Specific Gravity = 2.642

Porosity, n = 19.3 %

GS3.SDT - 05/28/93

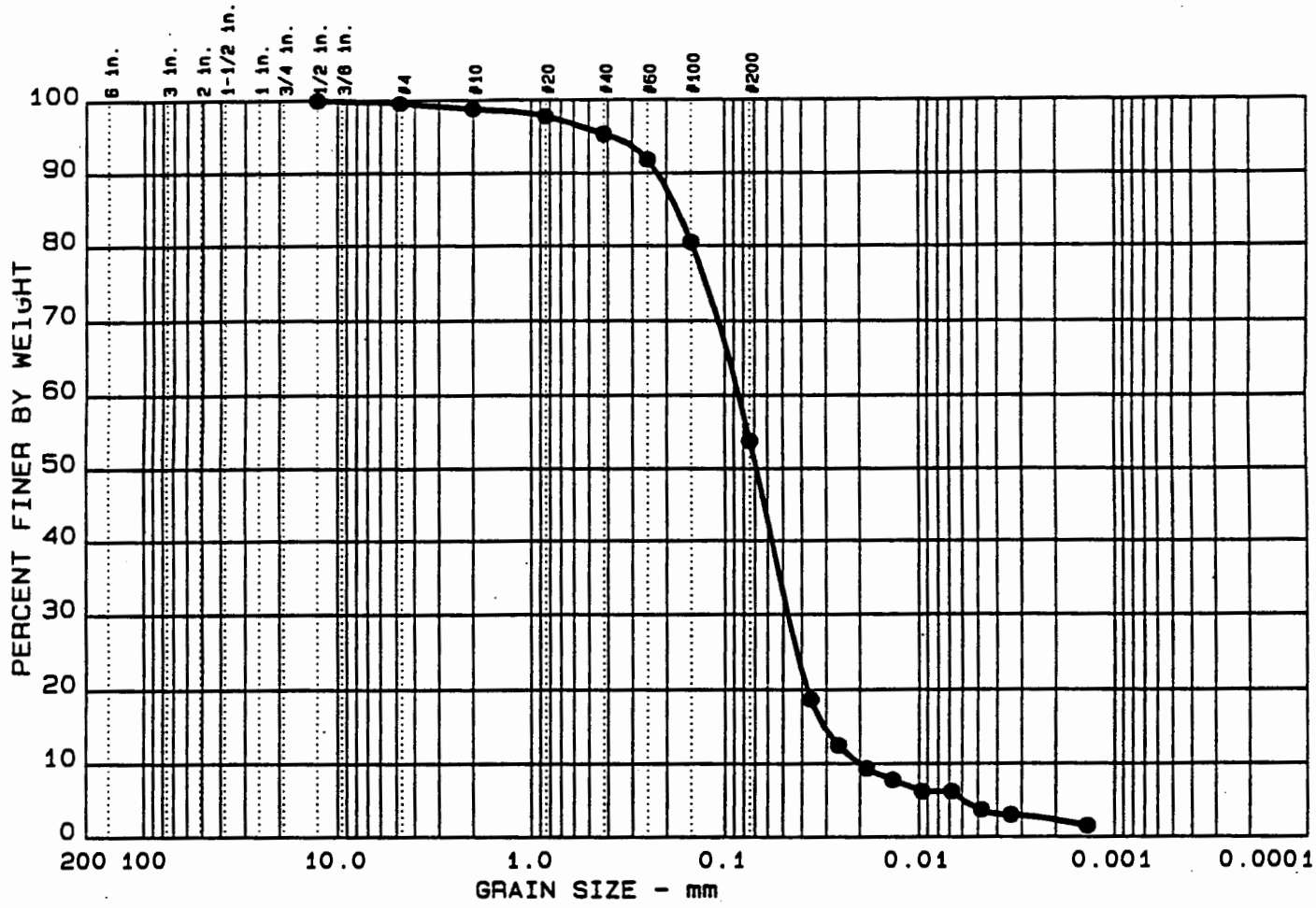
HALEY & ALDRICH INC.

Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	0.5	45.7	51.4	2.4

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW15	0.0-0.5			NP	12.1	4.2	1.32	ML

	Sample Description
●	

Remarks:

SBW15 is Non-Plastic

Specific Gravity = 2.623

Porosity, n = 32.6 %

GS4.SDT - 05/28/93

HALEY & ALDRICH INC.

Geotechnical Engineers & Environmental Consultants

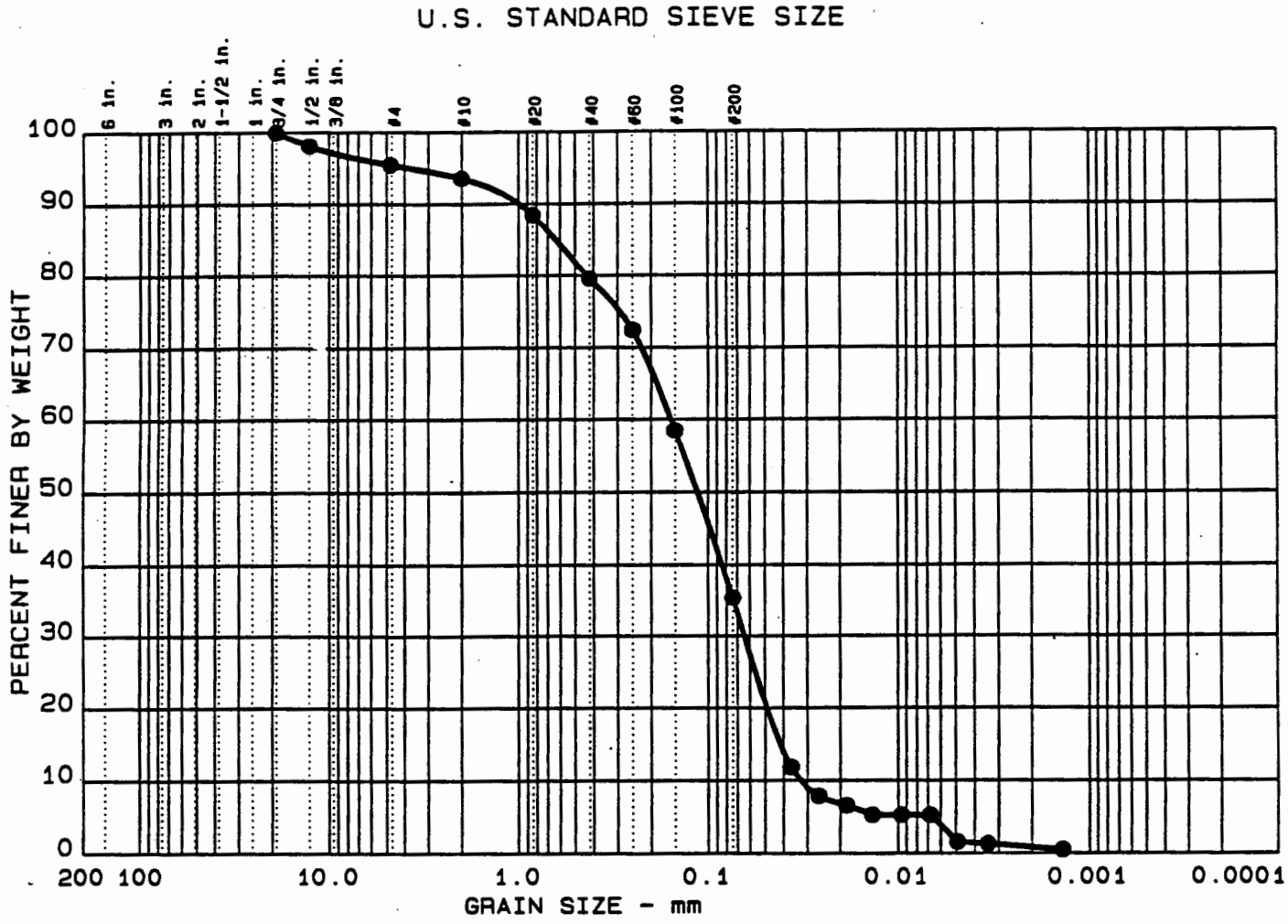
Burgess Brothers Superfund Site

Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993

FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	4.5	60.1	34.5	0.9

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW16	0.0-0.5			NP	16.3	4.8	0.81	SM

	Sample Description
●	

Remarks:

SBW16 is Non-Plastic

Specific Gravity = 2.641

Porosity, n = 56.6 %

GS5.SDT - 05/27/93

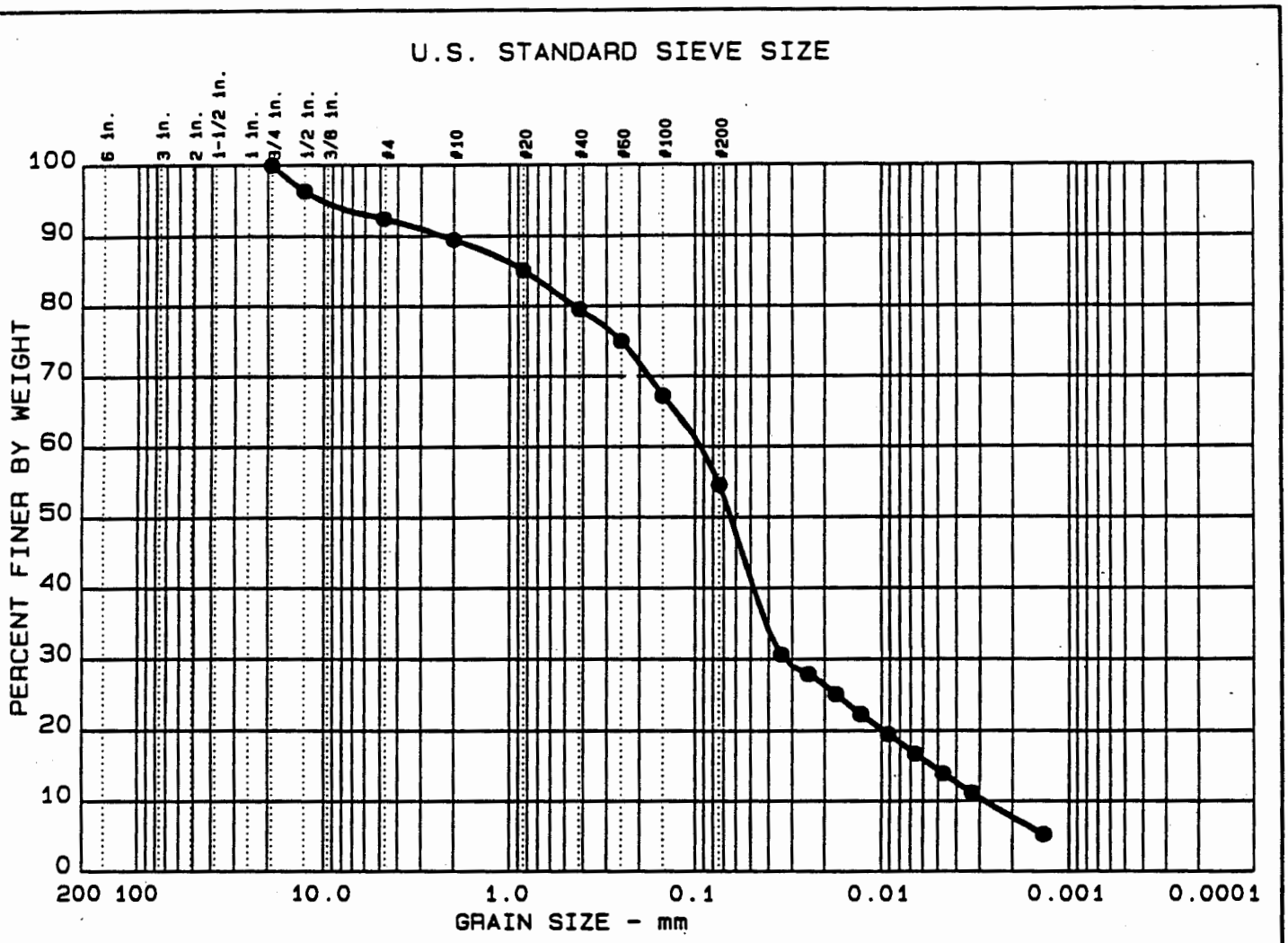
HALEY & ALDRICH INC.

Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	7.5	37.9	46.9	7.7

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW17	0.0-0.5			NP	19.6	33.5	4.03	ML

	Sample Description
●	

Remarks:

SBW17 is Non-Plastic
Specific Gravity = 2.563
Porosity, n = 58.7 %

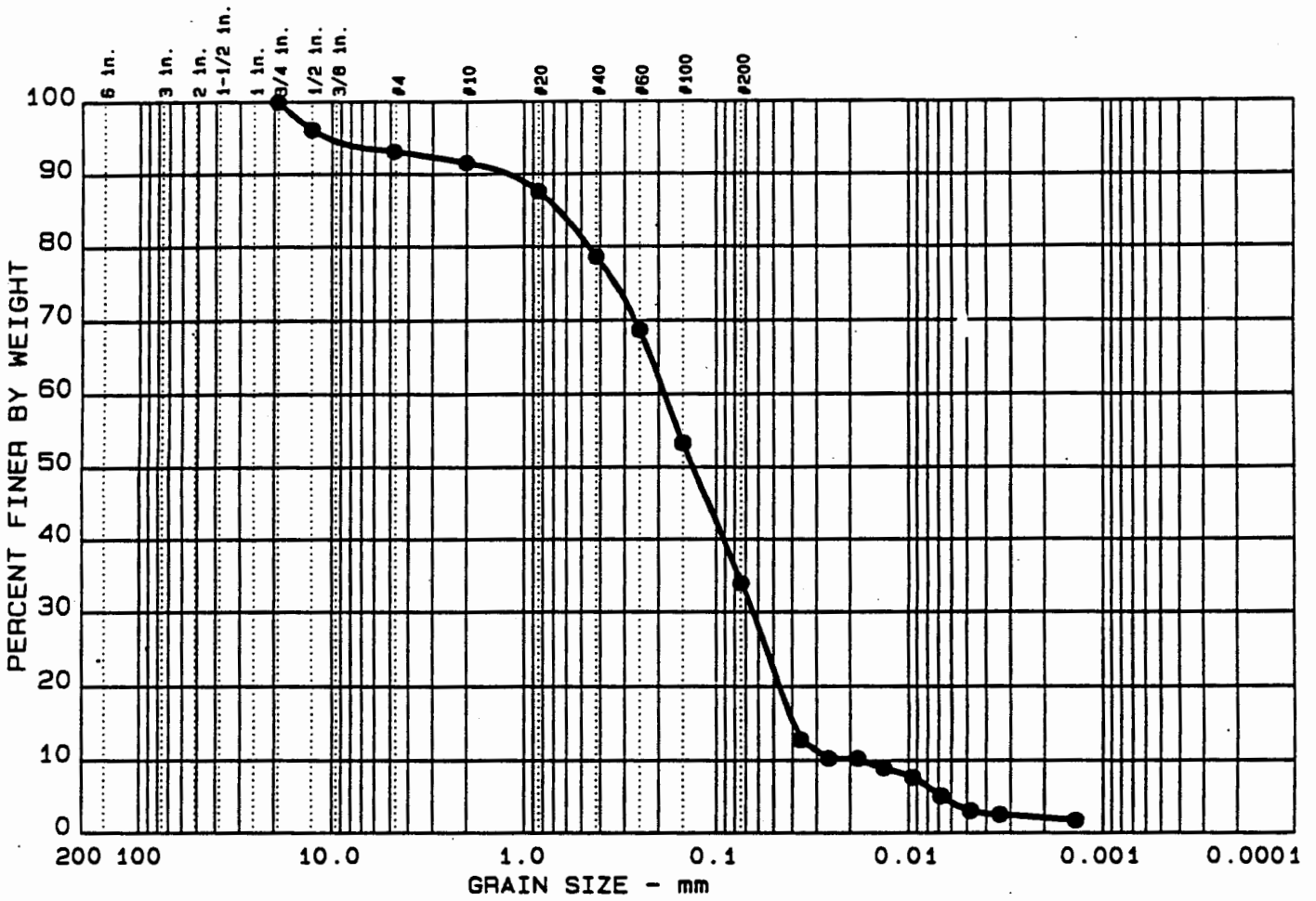
GS6.SDT - 05/27/93

HALEY & ALDRICH INC.
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	6.9	59.2	31.8	2.1

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW18	0.0-0.5			NP	10.0	10.6	1.27	SM

	Sample Description
●	

Remarks:

SBW18 is Non-Plastic

Specific Gravity = 2.635

Porosity, n = 52.7 %

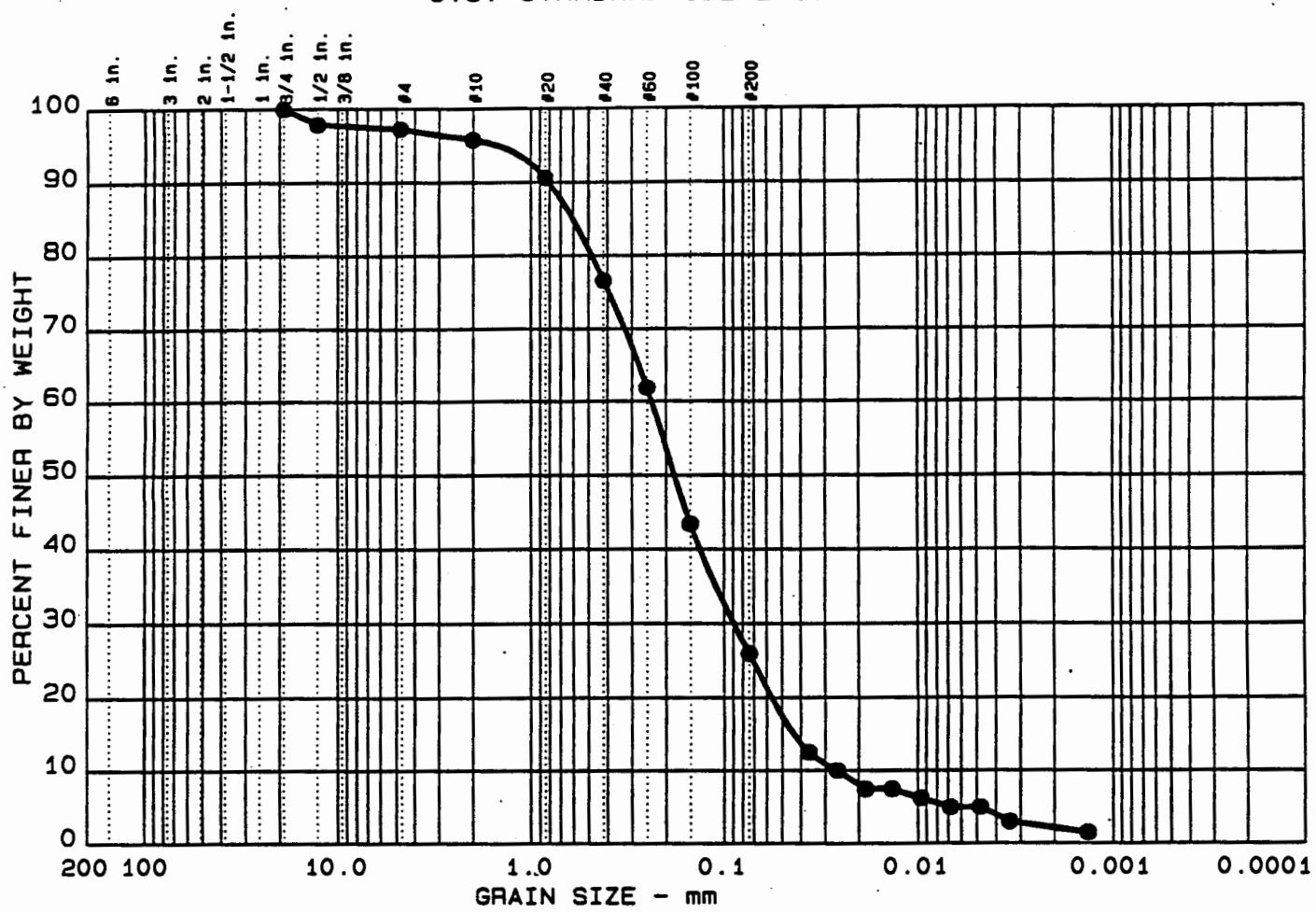
GS7.SDT - 05/27/93

HALEY & ALDRICH INC.
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	2.8	71.2	23.9	2.1

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW19	0.0-0.5			NP	8.9	9.1	1.29	SM

	Sample Description
●	

Remarks:

SBW19 is Non-Plastic

Specific Gravity = 2.624

Porosity, n = 53.0 %

GS8.SDT - 05/27/93

HALEY & ALDRICH INC.

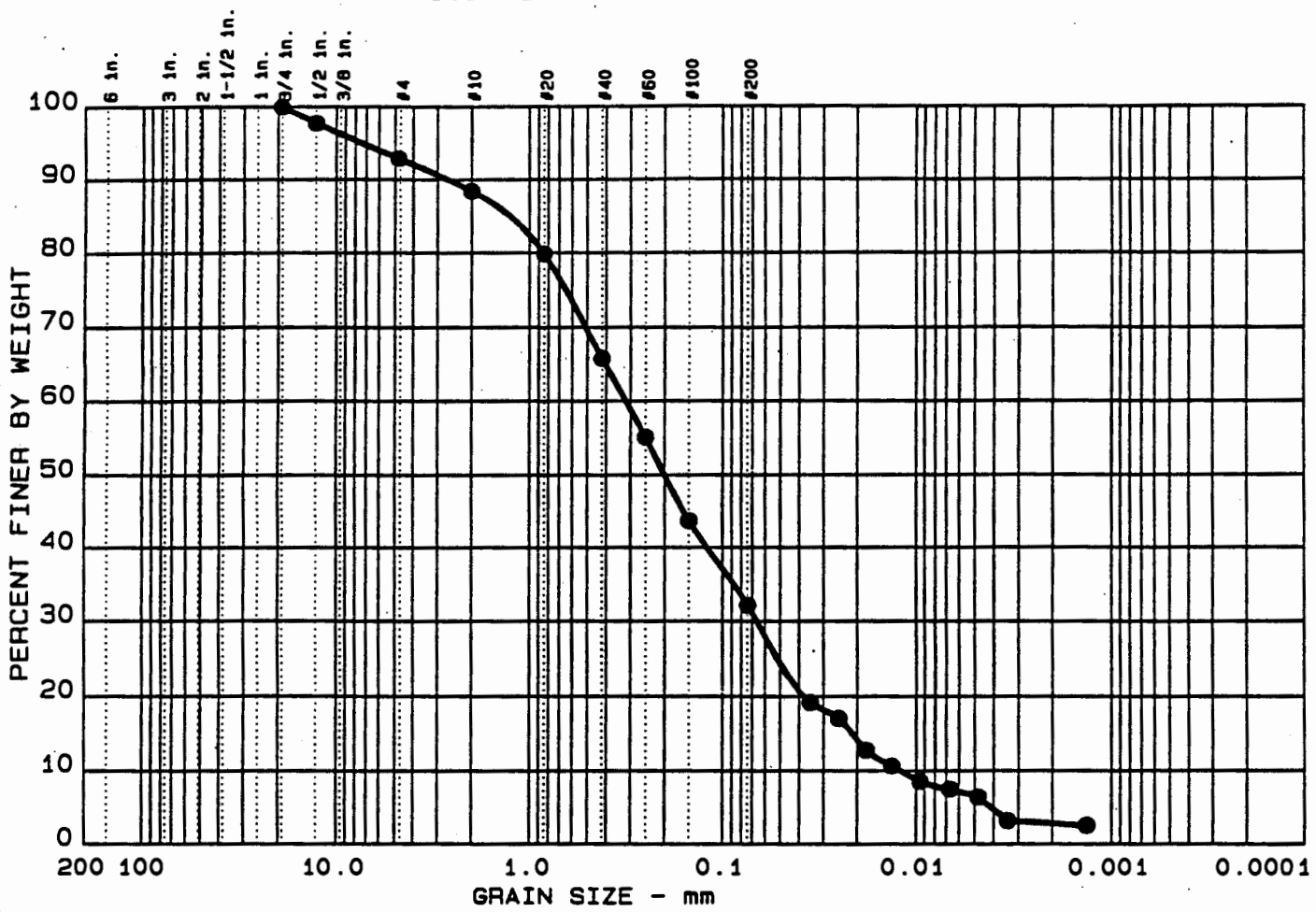
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993

FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	7.1	60.8	29.3	2.8

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●		SBW20	0.0-0.5			NP	9.5	26.7	1.19	SM

	Sample Description
●	

Remarks:

SBW20 is Non-Plastic

Specific Gravity = 2.648

Porosity, n = 52.0 %

GS9.SDT - 05/27/93

HALEY & ALDRICH INC.

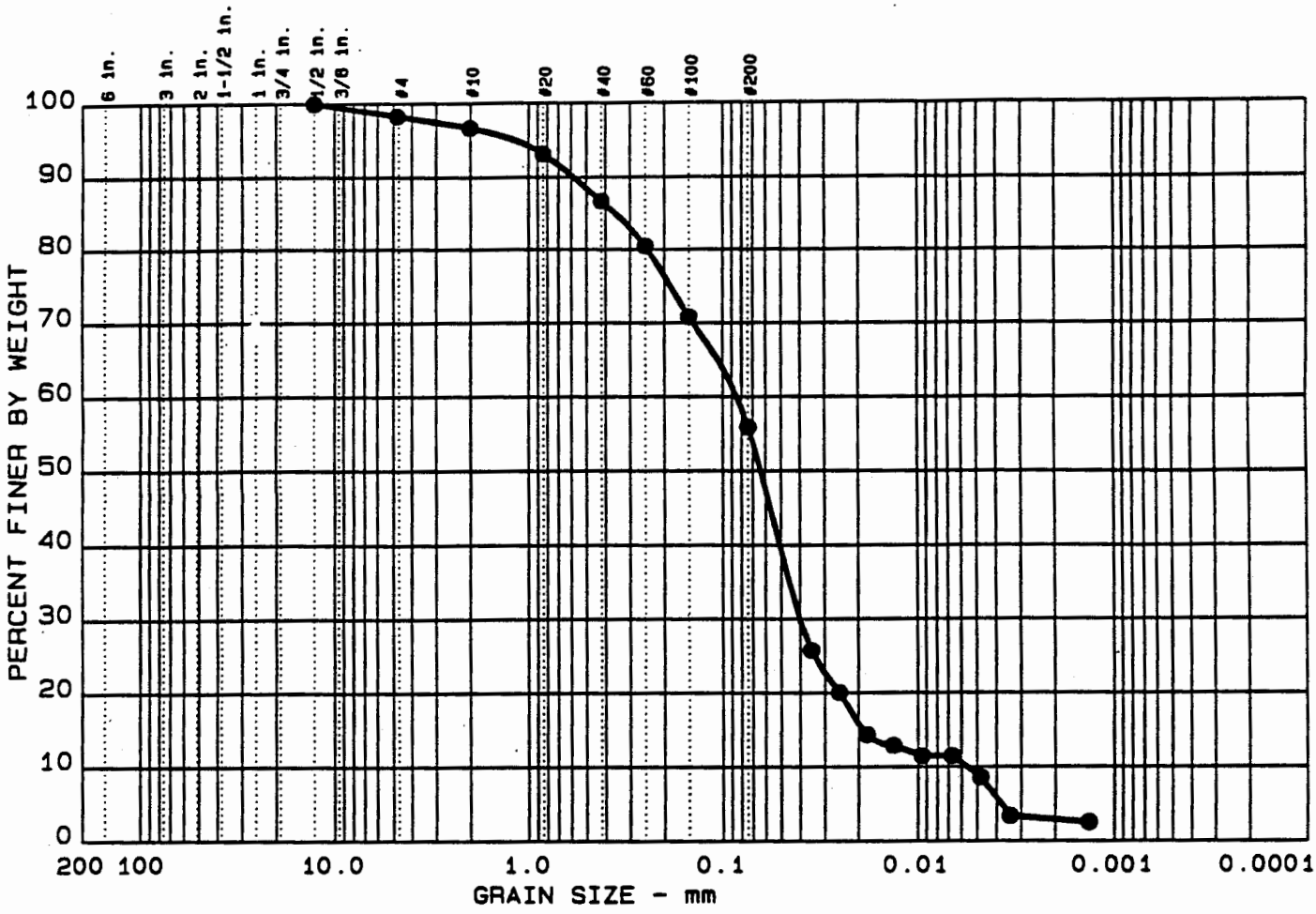
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993

FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	1.7	42.4	52.9	3.0

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_U	C_C	USCS
●		SBW21	0.0-0.5			NP	14.4	15.0	3.41	ML

	Sample Description
●	

Remarks:

SBW21 is Non-Plastic

Specific Gravity = 2.642

Porosity, n = 56.1 %

GS10.SDT - 05/27/93

HALEY & ALDRICH INC.

Geotechnical Engineers & Environmental Consultants

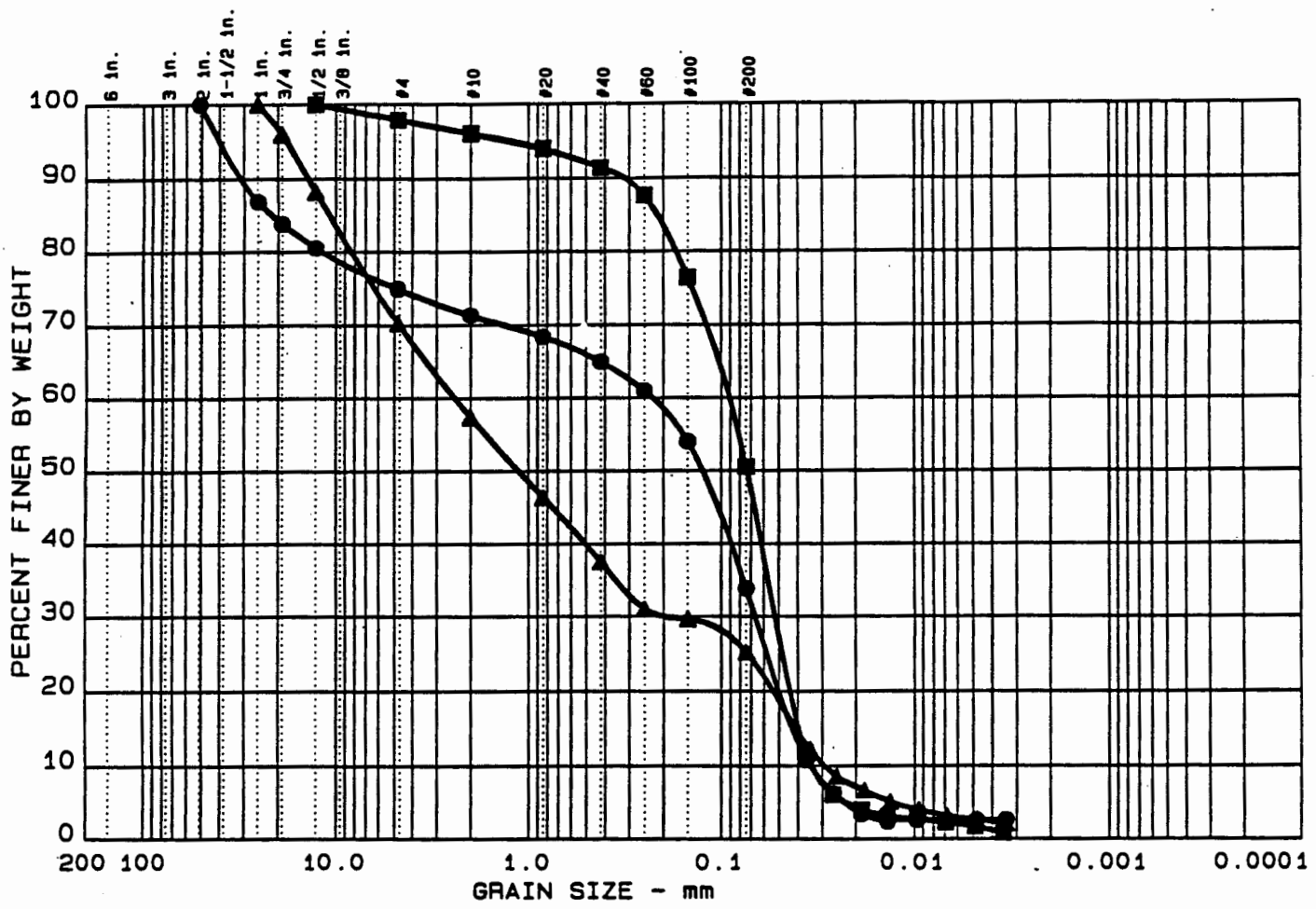
Burgess Brothers Superfund Site

Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993

FILE NO. 11016-04



	% +3"	% Gravel	% Sand	% Silt	% Clay
●	0.0	25.1	41.1	33.8	
▲	0.0	29.8	45.0	25.2	
■	0.0	2.1	47.3	50.6	

	Expl. No.	Sample No.	Depth (ft)	Atterberg Limits % W_L	W_P	I_P	Natural Water Content (%)	C_u	C_c	USCS
●	STA 4						18.4	6.4	0.58	SM
▲	STA 7						9.5	82.2	0.44	SM
■	STA 8						8.7	2.6	0.90	ML

	Sample Description
●	
▲	
■	

Remarks:

STA 4: Cuttings

STA 7: Cuttings

STA 8: Cuttings

GS11.SDT - 05/28/93

HALEY & ALDRICH INC.
Geotechnical Engineers & Environmental Consultants

Burgess Brothers Superfund Site
Bennington, Vermont

GRAIN SIZE DISTRIBUTION

DATE: May 1993 FILE NO. 11016-04

APPENDIX B

Constant Head Permeability Tests Results

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Burlington, Vermont

FILE No. 11016-04
DATE April 1993
TEST No. Perm02
TESTED BY: DDC
CHECKED BY: GY

SAMPLE No.: SBW-10
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[x] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{ } Harvard Min. Eqpmnt.
{X} ASTM D4254

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	7.78	24.25
WET SAMPLE WT. (g)	617.86	697.47
DRY UNIT WT. (pcf)	83.48	94.23
TOT. UNIT WT.(pcf)	89.98	117.08
VOID RATIO, e	0.986	0.760
PORE VOLUME (cc)	212.8	160.5
DEG. SATURATION(%)	21.0	100.0
SPECIFIC GRAVITY	2.656	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	10.234	8.878
diameter (cm)	7.303	7.303
area (sq.cm)	41.888	41.888
volume (cc)	428.69	371.885

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	0.0				5.6	11.0	0.440000	22.1	1.89E-03	
2	1.0				4.7	8.3	0.145000	22.1	7.38E-04	
3	1.0				4.7	8.4	0.150000	22.1	7.64E-04	
4	0.0				3.8	9.0	0.200000	22.1	1.25E-03	
5	0.0				3.8	9.0	0.223750	22.1	1.40E-03	

APPROX. TOTAL VOLUME OF FLOW (cc) 45.60

MAXIMUM GRADIENT 5.6
MINIMUM GRADIENT 3.6

MAXIMUM PERMEABILITY (cm/sec) 1.89E-03
MINIMUM PERMEABILITY (cm/sec) 7.38E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-10
TEST No. Perm02

AVERAGE PERMEABILITY (cm/sec) 1.2E-03

(Skeleton last revised: 18 August 1988, don.)

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Burlington, Vermont

FILE No. 11016-04
DATE APRIL 1993
TEST No. Perm03
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-13
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[x] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{ } Harvard Min. Eqpmnt.
{X} ASTM D4254

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	4.30	26.34
WET SAMPLE WT. (g)	566	685.60
DRY UNIT WT. (pcf)	79.03	86.86
TOT. UNIT WT.(pcf)	82.42	109.74
VOID RATIO, e	1.092	0.903
PORE VOLUME (cc)	223.8	185.1
DEG. SATURATION(%)	10.4	100.0
SPECIFIC GRAVITY	2.648	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	10.234	9.311
diameter (cm)	7.303	7.303
area (sq.cm)	41.888	41.888
volume (cc)	428.69	390.023

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	0.3				5.8	9.0	0.600000	21.1	2.48E-03	
2	0.2				5.8	9.0	0.600000	21.1	2.48E-03	
3	0.3				6.6	9.0	0.428571	21.1	1.54E-03	
4	0.3				6.6	9.0	0.428571	21.1	1.54E-03	
5	0.7				4.0	9.0	0.200000	21.1	1.19E-03	
6	0.7				4.0	9.0	0.200000	21.1	1.19E-03	

MAXIMUM GRADIENT 6.6
MINIMUM GRADIENT 4.0

APPROX. TOTAL VOLUME OF FLOW (cc) 54.00

MAXIMUM PERMEABILITY (cm/sec) 2.48E-03
MINIMUM PERMEABILITY (cm/sec) 1.19E-03

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-13
TEST No. Perm03

AVERAGE PERMEABILITY (cm/sec) 1.7E-03

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Burlington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. PERM04
TESTED BY: DDC
CHECKED BY: GY

SAMPLE No.: SBW-14
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[x] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{x} Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	9.37	27.71
WET SAMPLE WT. (g)	869.12	1019.68
DRY UNIT WT. (pcf)	90.74	91.18
TOT. UNIT WT.(pcf)	99.25	116.44
VOID RATIO, e	0.816	0.809
PORE VOLUME (cc)	245.9	244.5
DEG. SATURATION(%)	30.3	100.0
SPECIFIC GRAVITY	2.642	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.987	12.987
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	1.3				4.5	10.9	0.068125	21.0	3.56E-04	
2	1.3				4.5	10.6	0.067500	21.0	3.53E-04	
3	1.4				3.9	8.8	0.052778	21.0	3.26E-04	
4	1.4				3.9	9.0	0.053611	21.0	3.31E-04	
5	0.8				5.2	9.1	0.091111	21.0	4.13E-04	
6	0.8				5.2	9.0	0.089444	21.0	4.06E-04	

MAXIMUM GRADIENT 5.2
MINIMUM GRADIENT 3.9

APPROX. TOTAL VOLUME OF FLOW (cc) 57.45

MAXIMUM PERMEABILITY (cm/sec) 4.13E-04
MINIMUM PERMEABILITY (cm/sec) 3.26E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-14
TEST No. PERM04

AVERAGE PERMEABILITY (cm/sec) 3.6E-04

(Skeleton last revised: 18 August 1988, don.)

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Bennington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. Perm05
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-15
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[X] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{X} Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	12.17	34.26
WET SAMPLE WT. (g)	611.2	969.92
DRY UNIT WT. (pcf)	82.58	82.48
TOT. UNIT WT.(pcf)	92.63	110.76
VOID RATIO, e	0.983	0.985
PORE VOLUME (cc)	271.0	271.3
DEG. SATURATION(%)	32.5	100.0
SPECIFIC GRAVITY	2.623	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.967	12.967
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	2.6				4.2	8.7	0.052963	21.1	2.97E-04	
2	2.6				4.2	8.6	0.052593	21.1	2.95E-04	
3	1.7				5.6	8.6	0.086111	21.1	3.64E-04	
4	1.7				5.6	8.6	0.086389	21.1	3.65E-04	
5	2.2				4.9	8.8	0.066435	21.1	3.20E-04	
6	2.2				4.9	8.9	0.066667	21.1	3.21E-04	

MAXIMUM GRADIENT 5.6
MINIMUM GRADIENT 4.2

APPROX. TOTAL VOLUME OF FLOW (cc) 52.00

MAXIMUM PERMEABILITY (cm/sec) 3.65E-04
MINIMUM PERMEABILITY (cm/sec) 2.95E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-15
TEST No. Perm05

AVERAGE PERMEABILITY (cm/sec) 3.3E-04

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Burlington, Vermont

FILE No. 11016-04
DATE APR 1993
TEST No. PERM01
TESTED BY: DDC
CHECKED BY: GY

SAMPLE No.: SBW-16
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[x] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{x} Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	16.34	24.81
WET SAMPLE WT. (g)	767.4	825.03
DRY UNIT WT. (pcf)	96.06	96.26
TOT. UNIT WT.(pcf)	111.75	120.15
VOID RATIO, e	0.716	0.713
PORE VOLUME (cc)	178.9	178.4
DEG. SATURATION(%)	60.2	100.0
SPECIFIC GRAVITY	2.641	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	10.234	10.234
diameter (cm)	7.303	7.303
area (sq.cm)	41.888	41.888
volume (cc)	428.69	428.686

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	1.2				5.5	8.5	0.117222	21.0	5.07E-04	
2	1.2				5.5	8.8	0.109375	21.0	4.73E-04	
3	3.0				4.0	8.3	0.046111	21.0	2.76E-04	
4	9.0				2.9	6.0	0.016241	21.0	1.32E-04	
5	1.5				5.5	8.4	0.093333	21.0	4.04E-04	
6	8.0				2.9	5.0	0.013620	21.0	1.11E-04	

APPROX. TOTAL VOLUME OF FLOW (cc) 44.90

MAXIMUM GRADIENT 5.5
MINIMUM GRADIENT 2.9

MAXIMUM PERMEABILITY (cm/sec) 5.07E-04
MINIMUM PERMEABILITY (cm/sec) 1.11E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-16
TEST No. PERM01

AVERAGE PERMEABILITY (cm/sec) 3.2E-04

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Bennington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. Perm06
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-17
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[X] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{X} Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	18.23	29.79
WET SAMPLE WT. (g)	925.4	997.65
DRY UNIT WT. (pcf)	89.38	87.78
TOT. UNIT WT.(pcf)	105.67	113.92
VOID RATIO, e	0.790	0.823
PORE VOLUME (cc)	241.3	246.8
DEG. SATURATION(%)	59.1	100.0
SPECIFIC GRAVITY	2.563	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.987	12.987
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	20.0				6.7	8.8	0.007477	21.1	2.67E-05	
2	30.0				5.3	9.0	0.004860	21.1	2.19E-05	
3	24.0				6.0	8.8	0.006176	21.1	2.46E-05	

APPROX. TOTAL VOLUME OF FLOW (cc) 26.52

MAXIMUM GRADIENT 6.7
MINIMUM GRADIENT 5.3

MAXIMUM PERMEABILITY (cm/sec) 2.67E-05
MINIMUM PERMEABILITY (cm/sec) 2.19E-05

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No SBW-17
TEST No. Perm06

AVERAGE PERMEABILITY (cm/sec) 2.4E-05

(Skeleton last revised: 18 August 1986, don.)

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Bennington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. Perm07
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-18
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[X] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{X} Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE: {X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	10.40	24.63
WET SAMPLE WT. (g)	907.58	1026.26
DRY UNIT WT. (pcf)	93.88	94.03
TOT. UNIT WT.(pcf)	103.64	117.19
VOID RATIO, e	0.752	0.749
PORE VOLUME (cc)	234.7	234.2
DEG. SATURATION(%)	36.4	100.0
SPECIFIC GRAVITY	2.635	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.987	12.987
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	3.3				4.4	8.7	0.044444	21.1	2.38E-04	
2	2.0				6.2	9.0	0.075000	21.1	2.89E-04	
3	2.3				5.5	8.6	0.066111	21.1	2.87E-04	

APPROX. TOTAL VOLUME OF FLOW (cc) 26.25

MAXIMUM GRADIENT 6.2
MINIMUM GRADIENT 4.4

MAXIMUM PERMEABILITY (cm/sec) 2.89E-04
MINIMUM PERMEABILITY (cm/sec) 2.38E-04

SUMMARY TEST RESULTS:

SAMPLE No. SBW-18
TEST No. Perm07

AVERAGE PERMEABILITY (cm/sec) 2.7E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Bennington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. Perm08
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-19
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[X] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{ } Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE: {X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	9.04	21.94
WET SAMPLE WT. (g)	933.34	1044.66
DRY UNIT WT. (pcf)	97.74	97.65
TOT. UNIT WT.(pcf)	106.58	119.32
VOID RATIO, e	0.676	0.674
PORE VOLUME (cc)	220.5	220.1
DEG. SATURATION(%)	35.1	100.0
SPECIFIC GRAVITY	2.624	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.987	12.987
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	3.0				4.2	9.0	0.049556	21.1	2.78E-04	
2	1.4				6.3	8.9	0.106296	21.1	4.00E-04	
3	1.3				6.3	8.4	0.104375	21.1	3.93E-04	
4	2.0				5.3	8.7	0.072778	21.1	3.28E-04	

MAXIMUM GRADIENT 6.3
MINIMUM GRADIENT 4.2

APPROX. TOTAL VOLUME OF FLOW (cc) 34.90

MAXIMUM PERMEABILITY (cm/sec) 4.00E-04
MINIMUM PERMEABILITY (cm/sec) 2.78E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-19
TEST No. Perm08

AVERAGE PERMEABILITY (cm/sec) 3.5E-04

(Skeleton last revised: 19 August 1988, don.)

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Bennington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. Perm09
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-20
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[X] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{X} Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	10.09	22.22
WET SAMPLE WT. (g)	975.44	1087.69
DRY UNIT WT. (pcf)	101.18	101.62
TOT. UNIT WT.(pcf)	111.39	124.21
VOID RATIO, e	0.634	0.627
PORE VOLUME (cc)	212.1	210.6
DEG. SATURATION(%)	42.2	100.0
SPECIFIC GRAVITY	2.648	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.987	12.987
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	6.5				4.2	8.7	0.022370	21.1	1.25E-04	
2	4.3				6.3	8.7	0.033333	21.1	1.25E-04	
3	6.5				5.3	9.0	0.023111	21.1	1.04E-04	

APPROX. TOTAL VOLUME OF FLOW (cc): 26.29

MAXIMUM GRADIENT: 6.3
MINIMUM GRADIENT: 4.2

MAXIMUM PERMEABILITY (cm/sec): 1.25E-04
MINIMUM PERMEABILITY (cm/sec): 1.04E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-20
TEST No. Perm09

AVERAGE PERMEABILITY (cm/sec): 1.2E-04

HALEY & ALDRICH, INC.

CONSTANT HEAD PERMEABILITY TEST SUMMARY SHEET

PROJECT: Burgess Brothers Superfund Site
Bennington, Vermont

FILE No. 11016-04
DATE MAY 1993
TEST No. Perm.10
TESTED BY: FJJF
CHECKED BY: GY

SAMPLE No.: SBW-21
DEPTH (ft): 0.0 - 0.5

[ ] UNDISTURBED SAMPLE
[X] LABORATORY COMPACTED SAMPLE
EQUIPMENT USED: { } ASTM Standard Hammers
{ } Harvard Min. Eqpmnt.
hammer wt.(lbs.): 40
No. layers: 5
No. blows/layer: 10

[X] RIGID WALL PERMEAMETER
{ } 4 in. ID
{ } 6 in. ID
[ ] TRIAXIAL CHAMBER
{ } 1.4 in. diameter pedestal
{ } 1.90 in. diameter pedestal
{X} 2.87 in. diameter

VOLUME CHANGE DEVICE:
{X} burettes
{ } VCA
{ } Volumetric cylinder

	INITIAL	FINAL
WATER CONTENT (%)	14.70	25.04
WET SAMPLE WT. (g)	928.78	1016.24
DRY UNIT WT. (pcf)	92.47	92.61
TOT. UNIT WT.(pcf)	106.06	116.05
VOID RATIO, e	0.784	0.777
PORE VOLUME (cc)	240.2	239.1
DEG. SATURATION(%)	49.6	100.0
SPECIFIC GRAVITY	2.642	

SAMPLE DIMENSIONS:

	INITIAL	FINAL
height (cm)	12.987	12.987
diameter (cm)	7.321	7.321
area (sq.cm)	42.095	42.095
volume (cc)	546.69	546.689

RUN No.	DURATION (min.)	CELL PRESSURE (psi)	INLET PRESS. (psi)	OUTLET PRESS. (psi)	GRADIENT (del h/ del L)	APPROX. VOLUME of FLOW (cc)	AVERAGE FLOW RATE (cc/sec)	TEMP. (deg.C)	PERMEABILITY (cm/sec)	REMARKS
1	6.0				4.2	6.9	0.024593	21.1	1.38E-04	
2	3.0				6.3	9.0	0.050000	21.1	1.88E-04	
3	4.0				5.3	9.0	0.037333	21.1	1.68E-04	

APPROX. TOTAL VOLUME OF FLOW (cc) 26.90

MAXIMUM GRADIENT 6.3
MINIMUM GRADIENT 4.2

MAXIMUM PERMEABILITY (cm/sec) 1.88E-04
MINIMUM PERMEABILITY (cm/sec) 1.38E-04

NOTES: 1. Direction of flow was from the bottom of the sample to the top of the sample.

SUMMARY TEST RESULTS:

SAMPLE No. SBW-21
TEST No. Perm.10

AVERAGE PERMEABILITY (cm/sec) 1.6E-04

Appendix 23

GEI Consultants, Inc.

1021 Main Street
Winchester, MA 01890-1943
617•721•4000

April 18, 1994
Project 94101

Mr. Richard Stromberg
Managing Scientist
O'Brien & Gere Engineers, Inc.
1200 Crown Colony Drive
Quincy, MA 02169

Dear Mr. Stromberg:

Re: **Laboratory Test Results**
Burgess Brothers Superfund Site
Bennington, Vermont

The purpose of this letter is to present the results of the laboratory tests performed on the soil samples delivered to GEI Consultants, Inc. (GEI) on March 25, 1994.

Authorization

Authorization to perform this testing was received in the form of a letter signed by you dated March 22, 1994.

Test Program

The tests were performed on one tube sample, designated MW-22T, and one jar sample, designated W-4T.

The test program consisted of one permeability test on an undisturbed specimen from tube MW-22T; one permeability test on a recompacted specimen from material in tube MW-22T; and unit weight, water content, specific gravity, and porosity determinations for tube MW-22T and jar sample W-4T.

The first permeability test was performed on the section of undisturbed sample MW-22T designated by O'Brien & Gere. At the completion of the test, a 1.5-inch-diameter stone was discovered in the top of the specimen. I reported the presence of the stone to you in a telephone conversation on April 5, 1994. We discussed the effect that the stone

might have on the calculated permeability, and you requested that a second permeability test be performed on a recompacted specimen of the same material.

Test Results

A summary of the initial unit weight, initial water content, specific gravity, and initial porosity for the samples is contained in Table 1. The results of the permeability tests are presented in Figs. 1 and 2.

Test Procedures

Permeability

The permeability tests were performed in accordance with the procedure in **USACE Manual EM 1110-2-1906**, Appendix VII, Part 7, Permeability tests with back pressure. Permeability was measured under an effective confining stress of 0.5 kg/cm^2 (1.0 ksf). The rate of permeation was monitored for each specimen for at least 24 hours.

The undisturbed test specimen was extruded directly from a section of tube MW-22T after trimming. The recompacted test specimen was formed by extruding the soil in another section of tube MW-22T, removing any stones larger than 3/8 inch, recompacting the soil in the tube section, and then extruding the recompacted specimen. The compacted specimen was compacted to the approximate unit weight of the soil matrix of the undisturbed specimen.

Unit Weight

Unit weights were determined according to the guidelines of ASTM D2937, item 7. The initial total unit weight reported for MW-22T in Table 1 was determined prior to permeability testing. The unit weights for MW-22T reported in Figs. 1 and 2 were determined after permeability testing. The unit weight of W-4T was determined by trimming part of a jar sample into a tube.

Water Content

Water content was determined in accordance with ASTM Method D2216 by drying the sample in a 110°C oven to a constant weight. Water contents are expressed as the percentage of water weight to the dry weight of the specimen. The water content reported in Table 1 for MW-22T was determined prior to permeability testing. The water contents reported in Figs. 1 and 2 were determined after permeability testing.

Specific Gravity

Specific gravities were determined from material smaller than the No. 4 sieve (4.75 mm) according to ASTM D854 by means of a pycnometer on an oven-dried sample of soil.

Porosity

Porosity was computed from the initial unit weights, water contents, and specific gravities reported in Table 1.

Limitations

Our professional services for this project have been performed in accordance with generally accepted engineering practices; no other warranty, expressed or implied, is made.

References

1) **ASTM Annual Book of Standards** (1993). Vol. 04.08.

2) **U.S. Army Corps of Engineers Manual EM 1110-2-1906** (1970). Appendix VII, Part 7.

Sample Disposition

The remaining samples and sample containers are being held at GEI for you to retrieve. Please contact me to make arrangements for the samples. If we do not receive other instructions from you within 30 days, we will discard the samples.

If you have any questions concerning the test results reported in this letter, please call me at 721-4056 or Greg Thomas, our laboratory director, at 721-4028.

Sincerely yours,

GEI CONSULTANTS, INC.

Thomas W. Kahl

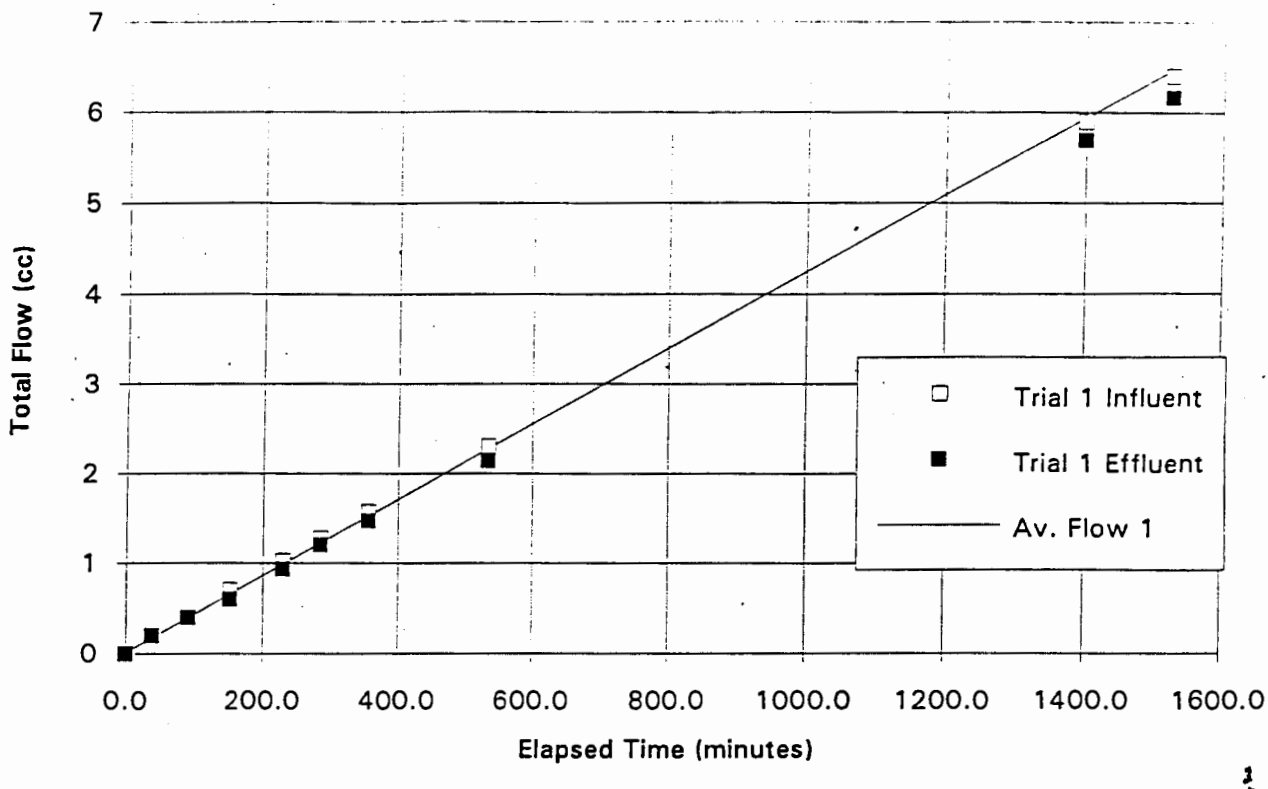
Thomas W. Kahl, P.E.
Geotechnical Engineer

/ms

Attachments

TABLE 1 - LABORATORY INDEX TEST SUMMARY
Burgess Brothers Superfund Site
Bennington, Vermont

Sample No.	Sample Type	Initial Total Unit Weight (pcf)	Initial Water Content (%)	Specific Gravity of Solids	Initial Porosity
MW-22T	Undisturbed Tube	147.6	9.0	2.68	0.188
W-47	Jar	133.7	16.9	2.70	0.321



TEST SUMMARY

PERMEABILITY : 1.7×10^{-7} cm/sec

SAMPLE INFORMATION

Boring:	MW-22T	Type:	2.5 inch diameter undisturbed tube sample
Sample:	-		
Depth:	22-24 feet	Description:	Silty SAND with gravel (SM)

SPECIMEN INFORMATION

Height:	3.90 inch	Water Content:	7.9 %
Diameter:	2.43 inch	Total Unit Weight:	149.7 pcf
Area:	4.65 in²	Dry Unit Weight:	138.7 pcf

TEST DATA

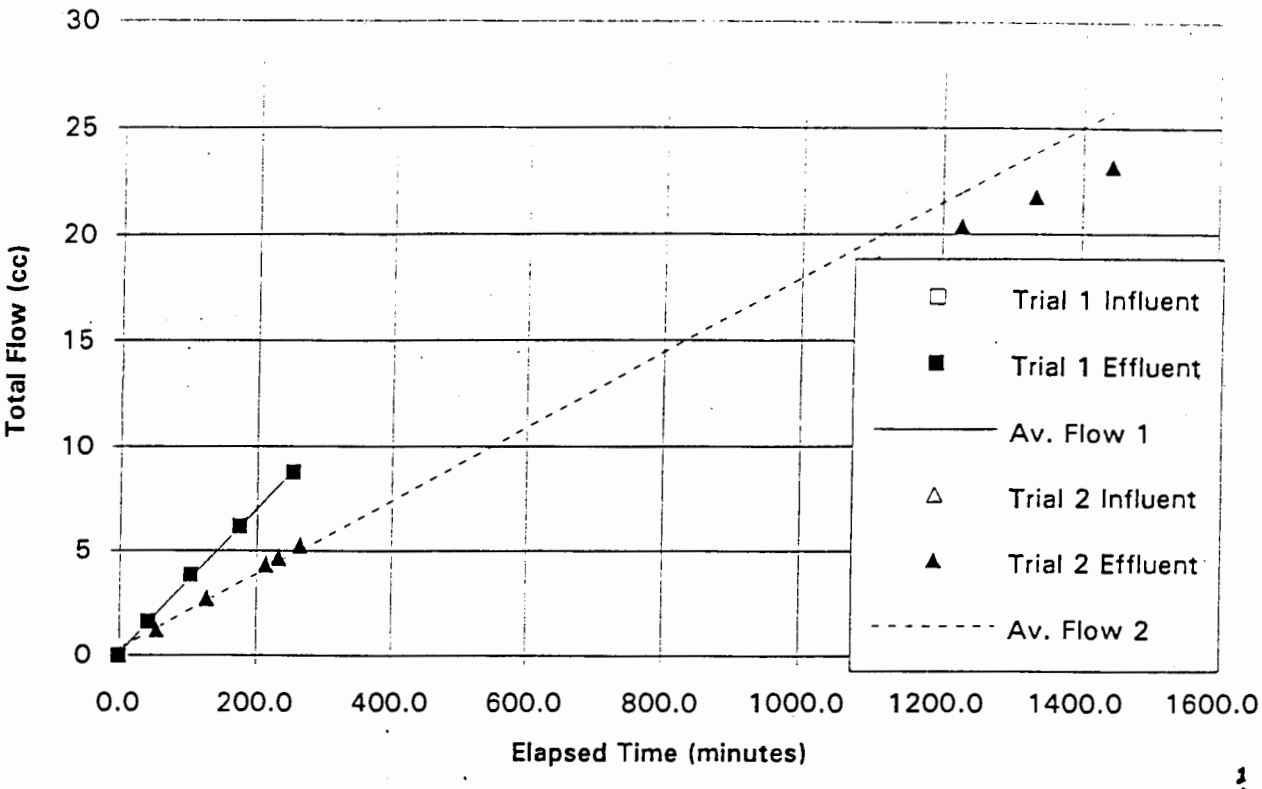
Consolidation Stress	1.0 ksf		Gradient	Flow Rate cm³/min	Permeability cm/sec
Permeant	Tap Water				
Temperature	21 °C	Trial 1	13.41098	0.00423373	1.7×10^{-7}
B - Value	0.96				

Remarks: 1.5 inch stone in specimen.
Stone weight = 143.4 g

Test by: D. Aghjayan Test Date: 4/8/94 Checked By: T. Kahl

O'Brien and Gere Engineers Quincy, MA	Burgess Bros. Superfund Site Bennington, Vermont	TRIAXIAL PERMEABILITY TEST MW-22T - Undisturbed
GEI Consultants, Inc.	Project 94101	April 1994 Fig. 1

4/14/94



TEST SUMMARY

PERMEABILITY : 1.0×10^{-6} cm/sec

SAMPLE INFORMATION

Boring:	MW-22T	Type:	Recompacted specimen
Sample:	-		
Depth:	22-24 feet	Description:	Silty SAND (SM) with gravel (+3/8 inch material removed)

SPECIMEN INFORMATION

Height:	3.12 inch	Water Content:	11.0 %
Diameter:	2.39 inch	Total Unit Weight:	142.9 pcf
Area:	4.47 in²	Dry Unit Weight:	128.7 pcf

TEST DATA

Consolidation Stress	1.0 ksf		Gradient	Flow Rate cm³/min	Permeability cm/sec
Permeant	Tap Water				
Temperature	21 °C	Trial 1	16.59254	0.03449691	1.2×10^{-6}
B - Value	0.95	Trial 2	11.29302	0.01762103	8.8×10^{-7}
Remarks:					

Test by: D. Aghjayan Test Date: 4/7/94 Checked By: T. Kahl

O'Brien and Gere Engineers Quincy, MA	Burgess Bros. Superfund Site Bennington, Vermont	TRIAXIAL PERMEABILITY TEST MW-22T - Recompacted
GEI Consultants, Inc.	Project 94101	April 1994 Fig. 2

4/14/94

Appendix 24

O'BRIEN & GERE
ENGINEERS, INC.

June 7, 1993

Mr. Ronald Jennings
Remedial Project Manager
U.S. Environmental Protection Agency
Waste Management Division - HPS-CAN1
J.F. Kennedy Federal Building
Boston, Massachusetts 02203

Re: Burgess Brothers Superfund Site
Well Purging Procedure

File: 5271.001

Dear Ron:

This letter is written subsequent to our conversations and your conversation with our Judy Allen on May 27, 1993 regarding the procedure for purging ground water monitoring wells. It is intended to serve as clarification of our understanding of the purging procedure for both bailing and pumping of normal and low-yielding wells.

Bailing

Bailing will be performed as described on pages 56 and 57 of the QAPP. A minimum of three and maximum of five well casing volumes will be bailed at the normal bailing frequency (approximately two 1/3-gallon bails per minute). When field test readings for temperature, pH, conductivity and turbidity stabilize, the sample will be collected.

However, if a well appears to be drying up at the normal bailing frequency (i.e., the water level drops at a faster rate than the well can recharge), the well will be bailed down to 1 to 2 feet above the bottom of the well. The well will then be allowed to recharge to a sufficient level, and the appropriate volume of sample will be collected with the bailer.

Pumping

Pumping will be performed as described on page 58 of the QAPP. Based on information acquired during well development, the approximate yield of the individual wells will be predetermined. The throttle on a submersible pump will be set to produce a discharge rate equivalent to the yield of the well. A minimum of three and maximum of five well casing volumes will be purged from the well with the pump, in accordance with the QAPP. Following stabilization, a sample will be collected directly from the pump's discharge tubing.

If the water level approaches the bottom of the well, the pump will be throttled appropriately. If the well appears to be drying up at the lowest possible pumping rate (0.3 gpm), the well will be pumped down to 1 to 2 feet above the bottom of the well, then the pump will be shut off.

The well will be allowed to recharge to a sufficient level, and the appropriate volume of sample will be collected with the submersible pump.

In order to avoid letting wells stand overnight to recharge prior to sampling, wells which are suspected to be low-yielding wells will be bailed or pumped first each day to allow these wells sufficient time to recover by day's end.

We anticipate that the above descriptions are consistent with our previous discussions regarding well purging procedures. If you have any questions or require additional information, please do not hesitate to call.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Robert C. Ganley, P.E.
Vice President

RRR:9

cc: Mr. William Mooney - Metcalf & Eddy
Mr. David Shepard - VT DEC
Mr. J. Thomas Houser - Eveready Battery
Mr. James E. Sauer - Burgess Brothers
Lisa A. Funderburg, Esq. - Ralston Purina
Cheryl L. Cundall, P.E., Esq. - O'Brien & Gere
Mr. Richard G. Stromberg, CPG - O'Brien & Gere (Boston)
Mr. Jeffrey E. Banikowski - O'Brien & Gere

Appendix 25

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1610
Sample ID Number:	SED - 1A	**Sample Date:**	9/23/92
Water:		**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Not Applicable
Turbidity:	Not Applicable
Odor:	Not Applicable
Other:	Not Applicable

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	Fine Sand - Silt/some gravels
Moisture Content:	Moist
Odor:	None
Other:	

D. Results of Field Analysis

pH:	Not Applicable
Specific Conductivity(uS):	Not Applicable
Temperature(C):	Not Applicable
Dissolved Oxygen(ppm):	Not Applicable

E. Sampling Procedures and Equipment: Sediment sample collected with lexan tubing.

F. Additional Notes:

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1155
Sample ID Number:	SW/SED-01A-2	**Sample Date:**	4/15/93
Water:		**Sampler:**	AC/SM
Sediment:			

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Not Collected - Dry
Turbidity:	Not Collected - Dry
Odor:	Not Collected - Dry
Other:	Not Collected - Dry

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Med. - F.Sand, Clay
Moisture Content:	Moist
Odor:	None
Other:	

D. Results of Field Analysis

pH:	No Surface Water Sample
Specific Conductivity(uS):	No Surface Water Sample
Temperature(C):	No Surface Water Sample
Dissolved Oxygen(ppm):	No Surface Water Sample

E. Sampling Procedures and Equipment:

F. Additional Notes:

Surface Water & Sediment Sampling Field Log

Burgess Brothers Superfund Site
Woodford & Bennington, VT

Sample Location:
Sample Identification No.: SW-01A-3
Water
Sediment

Sample Time: 1300
Sample Date: 11/17/95
Samplers Initials: FJF/RPL

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 10	(Dry)

B. Physical Description Of Water Sample

Color: _____
Turbidity: _____
Odor: _____
Other: _____

C. Physical Description Of Sediment Sample

Color: _____
Texture: _____
Moisture Content: _____
Odor: _____
Other: _____

D. Results Of Field Analysis

pH: _____
Specific Conductivity(uS): _____
Temperature(C): _____
Dissolved Oxygen: _____

E. Sampling Procedures & Equipment:

_____
_____
_____

F. Additional Notes:

Location Dry
_____
_____
_____

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1435
Sample ID Number:	SW/SED - 01B	**Sample Date:**	9/23/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None Apparent
Other:	

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	Fine Sand/Silt/trace clay & vegetation
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	7.7
Specific Conductivity(uS):	71
Temperature(C):	13.6
Dissolved Oxygen(ppm):	10

E. Sampling Procedures and Equipment:

Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes:

LOCATION RESAMPLED FOR 524.2 ANALYSIS ON SEPTEMBER 29, 1992.

HCl/HNO_3 preservation of VOA/metals confirmed - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0840
Sample ID Number:	SW/SED-01B-2	**Sample Date:**	4/15/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 (3) 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 (4) 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown - Lt. Brown - With Black
Texture:	Med. - F.Sand, Silt
Moisture Content:	Wet
Odor:	Slight Organic Decomp.
Other:	

D. Results of Field Analysis

pH:	5.5
Specific Conductivity(uS):	30
Temperature(C):	4
Dissolved Oxygen(ppm):	14.4

E. Sampling Procedures and Equipment:

F. Additional Notes:

524.2 SW Dup 0840 AC/SM.
HCl/HNO_3 preservation of VOA/metals
confirmed in field pH <2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1105
Sample ID Number:	SW/SED - 02	**Sample Date:**	9/23/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 (8) 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 (8) 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	Very Fine Sands - Silts/trace clay
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	7.4
Specific Conductivity(uS):	189
Temperature(C):	12.1
Dissolved Oxygen(ppm):	10

E. Sampling Procedures and Equipment: Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes: LOCATION RESAMPLED FOR 524.2 ANALYSIS ON SEPTEMBER 29, 1992.
HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1410
Sample ID Number:	SW/SED-02-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 (6) 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 (4) 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown - Lt. Brown
Texture:	Med. - F.Silt/Sand
Moisture Content:	Wet
Odor:	Organic Decomp.
Other:	Leaves, etc. below surface

D. Results of Field Analysis

pH:	5.8
Specific Conductivity(uS):	40
Temperature(C):	5
Dissolved Oxygen(ppm):	13.8

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO_3 preservation of VOA/metals confirmed in field - pH <2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1510
Sample ID Number:	SW/SED - 03	**Sample Date:**	9/22/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Iron Tint
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	Fine Sand/Silt/some cs sands - large cobbles
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	7.6
Specific Conductivity(uS):	207
Temperature(C):	17
Dissolved Oxygen(ppm):	9.21

E. Sampling Procedures and Equipment:

Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes:

LOCATION RESAMPLED FOR 524.2 ANALYSIS ON SEPTEMBER 29, 1992.

HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1030
Sample ID Number:	SW/SED-03-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 (4) 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 (4) 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown, Lt. Brown Silty Sand
Texture:	Med. - F.Sand/Silt
Moisture Content:	Wet
Odor:	Slight Organic Decomp.
Other:	

D. Results of Field Analysis

pH:	5.9
Specific Conductivity(uS):	30
Temperature(C):	3
Dissolved Oxygen(ppm):	14.2

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl / HNO_3 preservation of VOA / metals Confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0945
Sample ID Number:	SW/SED - 04	**Sample Date:**	9/22/92
Water:	X	**Sampler:**	MAR
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Dark Brown
Texture:	Fine Sand/little Silt/trace med. cs sand
Moisture Content:	Wet
Odor:	-
Other:	

D. Results of Field Analysis

pH:	7.7
Specific Conductivity(uS):	173
Temperature(C):	16.3
Dissolved Oxygen(ppm):	9.4

E. Sampling Procedures and Equipment:

Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes:

HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1540
Sample ID Number:	SW/SED-04-2	**Sample Date:**	4/13/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 (2) 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 (4) 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Med. - F.Sand,Silt, with a little gravel
Moisture Content:	Wet
Odor:	Slight Organic
Other:	

D. Results of Field Analysis

pH:	5.9
Specific Conductivity(uS):	30
Temperature(C):	3
Dissolved Oxygen(ppm):	14.4

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Barney Brook	**Sample Time:**	1452
Sample ID Number:	SW/SED – 05	**Sample Date:**	9/21/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Gray
Texture:	Med Sand/trace silt
Moisture Content:	Wet
Odor:	None
Other:	-

D. Results of Field Analysis

pH:	6.4
Specific Conductivity(uS):	175
Temperature(C):	16.2
Dissolved Oxygen(ppm):	9.4

E. Sampling Procedures and Equipment:

Water samples collected directly into lab jar.
Soil samples collected with lexan tubing.

F. Additional Notes:

Lexan tubing refusal was 6".
HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Barney Brook	**Sample Time:**	1130
Sample ID Number:	SW/SED-05-2	**Sample Date:**	4/13/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 (2) 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 (2) 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample	(Sample Time 1140)
Color:	Clear
Turbidity:	Slight
Odor:	None
Other:	* See Below

C. Physical Description Of Sediment Sample	(Sample Time 1205)
Color:	Lt Tan - Brown/Dark Brown
Texture:	Fine Sand/Little silt & Med. Sand
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis	
pH:	5.9
Specific Conductivity(uS):	30
Temperature(C):	4
Dissolved Oxygen(ppm):	13.4%

E. Sampling Procedures and Equipment: SW samples collected in lab specimen bottles.

F. Additional Notes:

* - No oxidizers or sulfides present as indicated by Pb acetate and K-iodide paper.
- SW samples collected 1' from shore mid-depth.
- Brown - Silty sand, Med - F with a little medium gravel.
HCl/HNO_3 preservation of VOA/metals confirmed in field - pH <2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Barney Brook	**Sample Time:**	1535
Sample ID Number:	SW/SED - 06	**Sample Date:**	9/21/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 (9) 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 (9) 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Fine Sand - Silt/trace cs sand & gravels
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	7.3
Specific Conductivity(uS):	199
Temperature(C):	15.7
Dissolved Oxygen(ppm):	9.5

E. Sampling Procedures and Equipment: Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes: LOCATION RESAMPLED FOR 524.2 ANALYSIS ON SEPTEMBER 29, 1992.
HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	
Sample ID Number:	SW/SED-06-2	**Sample Date:**	4/13/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 (2) 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 (2) 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Lt. Tan - Brown/Dark Brown
Texture:	Fine Sand/Little Silt
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	6.0
Specific Conductivity(uS):	50
Temperature(C):	4
Dissolved Oxygen(ppm):	14.8

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/Ithio-2 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0920
Sample ID Number:	SW/SED - 07	**Sample Date:**	9/22/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Med To Fine Sand/little silt/trace cs sand & gravel
Moisture Content:	Wet
Odor:	None
Other:	-

D. Results of Field Analysis

pH:	7.3
Specific Conductivity(uS):	171
Temperature(C):	16.6
Dissolved Oxygen(ppm):	9.4

E. Sampling Procedures and Equipment: Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes: HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1455
Sample ID Number:	SW/SED-07-2	**Sample Date:**	4/13/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 (2) 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 (2) 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown - Lt. Brown
Texture:	Med. - F.Sand,Silt
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	6.0
Specific Conductivity(uS):	60
Temperature(C):	4
Dissolved Oxygen(ppm):	14.6

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1600
Sample ID Number:	SED - 08	**Sample Date:**	9/23/92
Water:		**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Not Applicable
Turbidity:	Not Applicable
Odor:	Not Applicable
Other:	Not Applicable

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Fine to Med. Sand & Silt/some cs sands & silt
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	Not Applicable
Specific Conductivity(uS):	Not Applicable
Temperature(C):	Not Applicable
Dissolved Oxygen(ppm):	Not Applicable

E. Sampling Procedures and Equipment: Soil sample collected with lexan tubing from 0" to 4".

F. Additional Notes:

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1105
Sample ID Number:	SW/SED-08-2	**Sample Date:**	4/15/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 (8) 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 (9) 10	Dry

B. Physical Description Of Water Sample

Color:	Red - Brown
Turbidity:	High
Odor:	None
Other:	Could Not Collect Free of Sediment

C. Physical Description Of Sediment Sample

Color:	Red - Brown
Texture:	Med. - F.Sand-Silt
Moisture Content:	Very Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	6.3
Specific Conductivity(uS):	140
Temperature(C):	4
Dissolved Oxygen(ppm):	10.6

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/H_2O_2 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1215
Sample ID Number:	SW/SED - 09	**Sample Date:**	9/23/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Steam Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 (9) 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 (9) 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	Slight Organic Odor
Other:	-

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	Fine Sand/Silt/Clay
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	7.2
Specific Conductivity(uS):	277
Temperature(C):	12
Dissolved Oxygen(ppm):	10

E. Sampling Procedures and Equipment:

Water samples collected directly into lab jar.
Soil samples collected with lexan tubing.

F. Additional Notes:

HCl/H_2SO_4 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1515
Sample ID Number:	SW/SED-09-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 (8) 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	Slight Rusty Smell
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown with Black Organic Material
Texture:	Med. - F.Sand,Silt
Moisture Content:	Wet
Odor:	Organic Decomposition
Other:	

D. Results of Field Analysis

pH:	6.9
Specific Conductivity(uS):	220
Temperature(C):	12
Dissolved Oxygen(ppm):	10.6

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	Sample Time:	1341
Sample ID Number:	SW/SED - 10	Sample Date:	9/23/92
Water:	X	Sampler:	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None Apparent
Other:	-

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	Fine to Med. Sand & Silt/Some clay/trace cs sand & vegetation
Moisture Content:	Wet
Odor:	-
Other:	

D. Results of Field Analysis

pH:	7.6
Specific Conductivity(uS):	173
Temperature(C):	12.6
Dissolved Oxygen(ppm):	10

E. Sampling Procedures and Equipment:

Water sample collected via wide mouth lab jar then transferred to lab bottles. VOC samples collected directly into vials. Soil sample collected with lexan tubing.

F. Additional Notes:

LOCATION RESAMPLED FOR 524.2 ANALYSIS ON SEPTEMBER 29, 1992.

HCl / HNO_3 preservation of VOA / metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1020
Sample ID Number:	SW/SED-10-2	**Sample Date:**	4/15/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 (8) 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 (8) 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	Some Pieces of Algae-like Materials

C. Physical Description Of Sediment Sample

Color:	Red-Brown with a Little Black
Texture:	Med.-F.Sand,Silt with a Little Fine Gravel
Moisture Content:	Wet
Odor:	Slight Organic Decomposition
Other:	

D. Results of Field Analysis

pH:	6.6
Specific Conductivity(uS):	220
Temperature(C):	5
Dissolved Oxygen(ppm):	12.2

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO3 preservation of VOA/metals confirmed in field - pH <2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1135
Sample ID Number:	SW/SED - 11	**Sample Date:**	9/23/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 (9) 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 (9) 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	F. Sands/Silts/Clays
Moisture Content:	Wet
Odor:	None
Other:	-

D. Results of Field Analysis

pH:	7.1
Specific Conductivity(uS):	279
Temperature(C):	12.0
Dissolved Oxygen(ppm):	10.3

E. Sampling Procedures and Equipment:

Water samples collected directly into lab jar.
Soil samples collected with lexan tubing.

F. Additional Notes:

HCl/HNO3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1430
Sample ID Number:	SW/SED-11-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 (9) 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 (8) 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	Slight Rust Odor
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Med. - F.Sand,Silt,Decayed Leaves
Moisture Content:	Wet
Odor:	Organic Decomposition
Other:	

D. Results of Field Analysis

pH:	6.8
Specific Conductivity(uS):	217
Temperature(C):	12
Dissolved Oxygen(ppm):	11.8

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	Sample Time:	0835
Sample ID Number:	SW/SED - 12	Sample Date:	9/23/92
Water:	X	Sampler:	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 (7) 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	V.Fine Sand/Silt,some cs sand to f.gravel,trace clay
Moisture Content:	Wet
Odor:	
Other:	

D. Results of Field Analysis

pH:	8.6
Specific Conductivity(uS):	263
Temperature(C):	12.2
Dissolved Oxygen(ppm):	10.3

E. Sampling Procedures and Equipment:

Water samples collected directly into lab jar.
Soil samples collected with lexan tubing.

F. Additional Notes:

HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1110
Sample ID Number:	SW/SED-12-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 (3) 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 (4) 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Silty Sand,Clay
Moisture Content:	Moist
Odor:	Organic Decomposition
Other:	

D. Results of Field Analysis

pH:	5.7
Specific Conductivity(uS):	30
Temperature(C):	3
Dissolved Oxygen(ppm):	13.2

E. Sampling Procedures and Equipment:

F. Additional Notes: Drill Rig Upwind of Sample Location.

HCl/HNO3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1405
Sample ID Number:	SW/SED - 13	**Sample Date:**	9/22/92
Water:	X	**Sampler:**	RFM
Sediment:			

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	(Dry)

B. Physical Description Of Water Sample

Color:	Not Applicable
Turbidity:	Not Applicable
Odor:	Not Applicable
Other:	Not Applicable

C. Physical Description Of Sediment Sample

Color:	Black
Texture:	V.Fine Sand/Silt/some clay/trace cs sand
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	Not Applicable
Specific Conductivity(uS):	Not Applicable
Temperature(C):	Not Applicable
Dissolved Oxygen(ppm):	Not Applicable

E. Sampling Procedures and Equipment: Soil sample collected with lexan tubing from 0 to 6".

F. Additional Notes:

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0810
Sample ID Number:	SW/SED-13-2	**Sample Date:**	4/15/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 (4) 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 (4) 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown/Light Brown, Black
Texture:	Med. - F.Sand, Silt - Trace Gravel
Moisture Content:	Wet
Odor:	Slight Organic Decomposition
Other:	

D. Results of Field Analysis

pH:	6.2
Specific Conductivity(uS):	60
Temperature(C):	6
Dissolved Oxygen(ppm):	12.2

E. Sampling Procedures and Equipment:

F. Additional Notes: HCl/HNO3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	1435
Sample ID Number:	SW/SED - 14	**Sample Date:**	9/22/92
Water:	X	**Sampler:**	RFM
Sediment:			

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Brown
Texture:	Fine Sand-Silt/some sand & pebbles
Moisture Content:	Wet
Odor:	None
Other:	Not Applicable

D. Results of Field Analysis

pH:	7.8
Specific Conductivity(uS):	305
Temperature(C):	17.4
Dissolved Oxygen(ppm):	9.1

E Sampling Procedures and Equipment:

Water samples collected directly into lab jar.
Soil samples collected with lexan tubing.

F. Additional Notes:

HCl/HNO_3 preservation of VOA/meta
confirmed in field - pH <2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0940
Sample ID Number:	SW/SED-14-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 (4) 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 (2) 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Brown/Light Brown
Texture:	Med. - F.Sand,Silt
Moisture Content:	Wet
Odor:	Slight Organic Decomposition
Other:	

D. Results of Field Analysis

pH:	5.8
Specific Conductivity(uS):	30
Temperature(C):	3
Dissolved Oxygen(ppm):	14.2

E. Sampling Procedures and Equipment:

F. Additional Notes:

MS/MSD taken.
HCl/HNO3 preservation of VOA/metal confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: 014
Sample ID Number: SW/SED - ~~014~~ - 3
Water: SW-014-3
Sediment: SED-014-3

Sample Time: 0930
Sample Date: 11/17/93
Sampler: FJF/RPL

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	CLEAR
Turbidity:	LOW
Odor:	NONE
Other:	

C. Physical Description Of Sediment Sample

Color:	BROWN/BLACK/GRAY - OUTWASH ON SURFACE
Texture:	FINE SILTY SAND (ST. SED)
Moisture Content:	SATURATURATED
Odor:	NO ODOR
Other:	

D. Results of Field Analysis

pH:	7.3
Specific Conductivity(uS):	100
Temperature(C):	6.0
Dissolved Oxygen(ppm):	12.5

E. Sampling Procedures and Equipment: LEXAN TUBING / SS BOWL AND SPOON USED FOR SEDIMENT SAMPLING AND COMPOSITIN

F. Additional Notes: STREAM DEPTH 4" ±
WATER PH TAKEN W/ PAPER = 0.0 IN VOA VIALS
~~EAR BLANK~~: MS/MSD PERFORMED AT THIS LOCATION

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 1)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	
Sample ID Number:	SW/SED - 15	**Sample Date:**	9/22/92
Water:	X	**Sampler:**	RFM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 (10)	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 (10)	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	-
Odor:	None
Other:	-

C. Physical Description Of Sediment Sample

Color:	Dark Brown
Texture:	Fine Sand/little silt/trace med to cs sand
Moisture Content:	Wet
Odor:	None
Other:	

D. Results of Field Analysis

pH:	7.8
Specific Conductivity(uS):	189
Temperature(C):	16.7
Dissolved Oxygen(ppm):	

E. Sampling Procedures and Equipment: Water samples collected directly into lab jar. Soil samples collected with lexan tubing.

F. Additional Notes: LOCATION RESAMPLED FOR 524.2 ANALYSIS ON SEPTEMBER 29, 1992.

HCl/HNO_3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0845
Sample ID Number:	SW/SED-15-2	**Sample Date:**	4/14/93
Water:	X	**Sampler:**	AC/SM
Sediment:	X		

A. Stream Flow Conditions

Velocity	Swift	1 2 3 (4) 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 (3) 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	Clear
Turbidity:	Low
Odor:	None
Other:	

C. Physical Description Of Sediment Sample

Color:	Dark Brown
Texture:	Med. - F.Sand,Silt
Moisture Content:	Wet
Odor:	Organic (As From Decomposition)
Other:	

D. Results of Field Analysis

pH:	6.0
Specific Conductivity(uS):	40
Temperature(C):	3
Dissolved Oxygen(ppm):	14.4

E. Sampling Procedures and Equipment:

F. Additional Notes:

HCl/HNO3 Preservation of VOA/metals, Confirmed in Field - <pH2.

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: Unnamed Stream
Sample ID Number: SED-FB-1-2
Water:
Sediment:

Sample Time: 0745
Sample Date: 4/14/93
Sampler:

A. Stream Flow Conditions

Velocity	Swift	2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	2 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: _____
Turbidity: _____
Odor: _____
Other: _____

C. Physical Description Of Sediment Sample

Color: _____
Texture: _____
Moisture Content: _____
Odor: _____
Other: _____

D. Results of Field Analysis

pH: _____
Specific Conductivity(uS): _____
Temperature(C): _____
Dissolved Oxygen(ppm): _____

E. Sampling Procedures and Equipment: _____

F. Additional Notes:

FB collected prior to collecting SED-15-1-2.
Pat (M&E) collected her FB here, too.
FB = Equipment/Field Blank

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log (Round 2)

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Unnamed Stream	**Sample Time:**	0730
Sample ID Number:	SED-FB-2-2	**Sample Date:**	4/15/93
Water:		**Sampler:**	AC/SM
Sediment:			

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: _____
Turbidity: _____
Odor: _____
Other: _____

C. Physical Description Of Sediment Sample

Color: _____
Texture: _____
Moisture Content: _____
Odor: _____
Other: _____

D. Results of Field Analysis

pH: _____
Specific Conductivity(uS): _____
Temperature(C): _____
Dissolved Oxygen(ppm): _____

E. Sampling Procedures and Equipment: _____

F. Additional Notes: FB #2 collected with equipment used for location SW/SED-01B-2.

FB = Equipment/Field Blank

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:
Sample ID Number: SW/SED - 014 - 3
Water: SW - 014 - 3
Sediment: SED - 014 - 3

Sample Time: 0930
Sample Date: 11/17/93
Sampler: FJF/RPL

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	CLEAR
Turbidity:	LOW
Odor:	NONE
Other:	

C. Physical Description Of Sediment Sample

Color:	BROWN/BLACK/GRAY - OUTWASH ON SIDE
Texture:	FINE SILTY SAND (ST. SED)
Moisture Content:	SATURATURATED
Odor:	NO ODOR
Other:	

D. Results of Field Analysis

pH:	7.3
Specific Conductivity(uS):	100
Temperature(C):	6.0
Dissolved Oxygen(ppm):	12.5

E. Sampling Procedures and Equipment: LEXAN TUBING / SS BOWL AND SPOON USED FOR SEDIMENT SAMPLING AND COMP

F. Additional Notes: STREAM DEPTH 4" ±
WATER PH TAKEN W/ PAPER = 0.0 IN VOA VIA ~~LAKE BOTTLE~~: MS/MSD PERFORMED AT THIS LOCATION

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-03-3
Sample ID Number: SW-03-3
Water:
Sediment:

Sample Time: 10:5
Sample Date: 11/17/93
Sampler: FJF/RPL

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: 7.6
Specific Conductivity(uS): 130
Temperature(C): 6.5
Dissolved Oxygen(ppm): ~~12~~ 12.8

E. Sampling Procedures and Equipment:

F. Additional Notes:

STREAM DEPTH 4" ±
PH OF VOA VIALS AT 0.0

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-04
Sample ID Number:
Water: (circled)
Sediment:

Sample Time: 1330
Sample Date: 11-16-93
Sampler: FJF / TEF

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 (9) 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 (9) 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: 7.8
Specific Conductivity(uS): 100
Temperature(C): 8°C
Dissolved Oxygen(ppm): 11.6

E. Sampling Procedures and Equipment: WIDE MOUTH JARS

F. Additional Notes:

HNV: 0.0 PPM
STREAM DEPTH 4"
HCl/H2SO4 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-05
Sample ID Number: SW-05
Water:
Sediment:

Sample Time: 10:00
Sample Date: 11/16/93
Sampler: JF / FJF

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: VERY LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: 9.0
Specific Conductivity(uS): 160
Temperature(C): 7.5
Dissolved Oxygen(ppm): 11.5

E. Sampling Procedures and Equipment:

F. Additional Notes:

STREAM DEPTH 12" ±
SPLIT w/ M&E
HCl / HNO_3 preservation of VOA / metals
confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-06
Sample ID Number:
Water:
Sediment:

Sample Time: 10:20
Sample Date: 11/16/93
Sampler: RPL

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 (6) 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: VERY LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: ~~8.1~~ 8.8
Specific Conductivity(uS): 80
Temperature(C): 7.5
Dissolved Oxygen(ppm): 11.8

E. Sampling Procedures and Equipment:

F. Additional Notes:

STREAM DEPTH 4" ±
H/H = 0.8
HCl/HNO3 preservation of VOA/metals confirmed in field - pH ~2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-07 | Sample Time: 10:35
Sample ID Number: | Sample Date: 11/16/93
Water: | Sampler: FJF / TF
Sediment:

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: ~~Heavy~~ LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: ~~7.5~~ 8.6
Specific Conductivity(uS): 140
Temperature(C): 7.5
Dissolved Oxygen(ppm): 11.2

E. Sampling Procedures and Equipment:

F. Additional Notes:

STREAM DEPTH 3" ±
HCl/HNO3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:
Sample ID Number: SW/SED-11-3
Water: SW-011-3 1120
Sediment: SED-011-3 → 1440

Sample Time: 11:20
Sample Date: 11/17
Sampler: FJF | TF

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 (9) 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	CLEAR TO ORANGE
Turbidity:	VERY HIGH
Odor:	NONE
Other:	SHEEN OF ORGANIC ORIGIN

C. Physical Description Of Sediment Sample

Color:	BLACK VERY FINE STREAM SED
Texture:	W/ HIGH ORGANIC CONTACT
Moisture Content:	SATURATED
Odor:	NONE
Other:	

D. Results of Field Analysis

pH:	6.9
Specific Conductivity(uS):	290
Temperature(C):	7.5
Dissolved Oxygen(ppm):	0.0

E. Sampling Procedures and Equipment:

F. Additional Notes:

WATER PH AT 0.0 W/ PAPER
STREAM DEPTH 8" ±

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:
Sample ID Number: SW/SED-12-3
Water: SW-012-3
Sediment: SED-012-3

Sample Time: 10:35 WATER / 11:05 SED
Sample Date: 11/17/93
Sampler: TJF / T.F

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color:	CLEAR
Turbidity:	VERY LOW
Odor:	NONE
Other:	

C. Physical Description Of Sediment Sample

Color:	BLACK w/ GRAY SILTY SAND
Texture:	TRACE MED. SAND
Moisture Content:	SATURATED
Odor:	NONE
Other:	

D. Results of Field Analysis

pH:	7.2
Specific Conductivity(uS):	110
Temperature(C):	7.0
Dissolved Oxygen(ppm):	11.4

E. Sampling Procedures and Equipment: LEXAN TUBING / SS SPOON & BOWL USED TO SAMPLE SED.

F. Additional Notes: STREAM DEPTH = 5" ±
EQUIP. BLANK TAKEN AT THIS LOCATION @ 11:00
HCl/HNO3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW - 015
Sample ID Number:
Water: (circled)
Sediment:

Sample Time: 1345
Sample Date: 11.16.93
Sampler: EJF/TEF

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 6 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: 8.1
Specific Conductivity(uS): 130
Temperature(C): 8.5C
Dissolved Oxygen(ppm): 11.8

E. Sampling Procedures and Equipment:

F. Additional Notes:

HNU - 0.0 PPM
STREAM DEPTH 16"
HCl/HNO3 preservation of VOA/metals confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-016
Sample ID Number: SW-016
Water:
Sediment:

Sample Time: 0940
Sample Date: 11/16/93
Sampler: RPL/JF/FJF

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 (6) 7 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: VERY LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: 8.8
Specific Conductivity(uS): 100
Temperature(C): 7°C
Dissolved Oxygen(ppm): 12.0

E. Sampling Procedures and Equipment:

F. Additional Notes:

STREAM DEPTH 8"±
HCl/HNO_3 preservation of metals/VOA confirmed in field - pH < 2

O'Brien & Gere Engineers, Inc.
Surface Water & Sediment Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location: SW-017
Sample ID Number:
Water:
Sediment:

Sample Time: 0915
Sample Date: 11/16/93
Sampler: RAL/TTF/FJF

A. Stream Flow Conditions

Velocity	Swift	1 2 3 4 5 6 (7) 8 9 10	Stagnant
Stream Stage	Flooded	1 2 3 4 5 (6) 7 8 9 10	Dry

B. Physical Description Of Water Sample

Color: CLEAR
Turbidity: VERY LOW
Odor: NONE
Other:

C. Physical Description Of Sediment Sample

Color:
Texture:
Moisture Content:
Odor:
Other:

D. Results of Field Analysis

pH: ~~7.6~~ 9.0
Specific Conductivity(uS): 80
Temperature(C): 7.5
Dissolved Oxygen(ppm): 11.2

E. Sampling Procedures and Equipment:

F. Additional Notes:

HNU = 0.0
STREAM DEPTH 4" ±
HCl/HNO3 preservation of VOA/metals
confirmed in field - pH < 2

Appendix 26

O'Brien & Gere Engineers, Inc.
Leachate Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Toe of Landfill	Sample Time:	1510
Sample ID Number:	LS-1	Sample Date:	1/28/93
Water:	X	Sampler:	JCJ
Sediment:			

A. Physical Description of Water Sample

Color:	Clear
Turbidity:	None
Odor:	None
Other:	

B. Results of Field Analysis

pH:	No results due to lack of volume.
Specific Conductivity(uS):	
Temperature(C):	
Dissolved Oxygen(ppm):	

C. Sampling Procedures and Equipment:

Stainless steel bowl used to collect sample.

D. Additional Notes:

- Sample collection rate at 150 ml per 30 minutes.
- 3/40 ml vials for 8240 analysis.

O'Brien & Gere Engineers, Inc.
Leachate Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Toe of Landfill	Sample Time:	0855 - 1135
Sample ID Number:	LS-1	Sample Date:	1/29/93
Water:	X	Sampler:	JCJ
Sediment:			

A. Physical Description of Water Sample

Color:	Clear
Turbidity:	None
Odor:	None
Other:	

B. Results of Field Analysis

pH:	6.0
Specific Conductivity(uS):	190
Temperature(C):	13.0
Dissolved Oxygen(ppm):	12.2

C. Sampling Procedures and Equipment:

Stainless steel bowl used to collect sample.

D. Additional Notes:

Sample collected and submitted to laboratory for remaining parameters.

O'Brien & Gere Engineers, Inc.
Leachate Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Toe of Landfill	Sample Time:	
Sample ID Number:	LS-1	Sample Date:	6/4/94
Water:	X	Sampler:	RPL/MAR
Sediment:			

A. Physical Description of Water Sample

Color:	Clear
Turbidity:	None
Odor:	None
Other:	

Results of Field Analysis

pH:	No results due to lack of volume.
Specific Conductivity(uS):	
Temperature(C):	
Dissolved Oxygen(ppm):	

C. Sampling Procedures and Equipment:

Stainless steel bowl used to collect sample.

D. Additional Notes:

- Sample collected for PCB/pesticides.

O'Brien & Gere Engineers, Inc.
Leachate Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Toe of Landfill - Middle	**Sample Time:**	1130
Sample ID Number:	LS-2	**Sample Date:**	5/03/93
Water:	X	**Sampler:**	MAR
Sediment:			

A. Physical Description of Water Sample

Color:	Light - Dark Brown
Turbidity:	Light - Heavy
Odor:	None
Other:	No Sheen

B. Results of Field Analysis

pH:	7.3
Specific Conductivity(uS):	490
Temperature(C):	10
Dissolved Oxygen(ppm):	-

C. Sampling Procedures and Equipment:

Sample collected per protocol
(i.e. stainless steel bowl).

D. Additional Notes:

O'Brien & Gere Engineers, Inc.
Leachate Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Toe of Landfill/South	Sample Time:	1445
Sample ID Number:	LS-3	Sample Date:	5/03/93
Water:	X	Sampler's Initials:	MAR
Sediment:			

A. Physical Description of Water Sample

Color:	Light - Dark Brown
Turbidity:	Light - Moderate
Odor:	None
Other:	

B. Results of Field Analysis

pH:	6.7
Specific Conductivity(uS):	240
Temperature(C):	11
Dissolved Oxygen(ppm):	7

C. Sampling Procedures and Equipment:

-8240 samples collected immediately following the collection of enough sample volume.
-Remaining samples secured by filling stainless steel bowl with seep water and allowing it to stand for 15 minuutes. This minimized the amount of sediment shipped to the lab.

D. Additional Notes:

LS-FBEQ = Field/Eqt blank taken at 1410, Split with M & E (Sue Pogodzienski)
- checked for oxidizers & sulfides, both not present.

O'Brien & Gere Engineers, Inc.
Leachate Sampling
Field Log

Burgess Brothers Superfund Site
Woodford and Bennington, VT

Sample Location:	Toe of Landfill/South	Sample Time:	1100
Sample ID Number:	LS-BLDUP#1(LS-3)	Sample Date:	5/05/93
Water:	X	Sampler's Initials:	MAR
Sediment:			

A. Physical Description of Water Sample

Color:	Clear/Light Brown
Turbidity:	Slight
Odor:	None
Other:	

B. Results of Field Analysis

pH:	6.8
Specific Conductivity(uS):	310
Temperature(C):	11
Dissolved Oxygen(ppm):	8

C. Sampling Procedures and Equipment:

Sample collected per protocol (stainless steel bowl, etc).

D. Additional Notes:

Oxidizers & Sulfides checked, but not present.

Appendix 27

INDUSTRIAL HYGIE RVEY DATA SHEET

CLIENT: Burgess Brothers LOCATION: _____ CLIENT NO. _____ SURVEY DATE: 10/14/92

SAMPLING PUMP DATA

Pump Type:	Manufacturer:	Model:

REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS

Collection Media: Cms + XAD-2 w GFF

Analysis Required: T-02, TO-13

SAMPLE DATA

OBG Instr. No.	Sample No.	Sampling Location (employee's name)	Collection Time		Collection Duration (mins.)	Flow Rate		Sampler Position	No. of Persons in Area	Exposure Time (mins.)	Shift Duration (mins.)
			Start	End		Precal.	Postcal.				
21927	AS-05-V	AS05-	957	1757	480	41.1	42.5	BZ			19.73L
89-08210	AS-05-SV	AS-05	957	1757	480	44.8	45.9				.41 238 9.22
500955	AS-02-V	AS-02	1016	1816	480	41.4	41.3				19.87L
513432	AS-02-SV	AS-02	1016	1816	480	41.3	43.8				17.92L
500825	AS-04-V	AS-04	1027	1827	480	41.3	40.3				19.82L
21932	AS-04-SV	AS-04	1027	1827	480	40.8	42.4				19.58L

COMMENTS:

AS-05-V - T-921005-3C 128

AS02-V T-921005-3C-127

AS-02-4-V T 921005-3C-3

Manager: JEB Hygienist: MJP Sampler: MJP KW

55 AS-02-SV: The collection end time was incorrectly inputted. The sampling pump stopped after a collection duration of 434. Therefore, the correct end time of the sample was 1,730.

INDUSTRIAL HYGIEN[illegible] RVEY DATA SHEET

CLIENT: [illegible] Brothers LOCATION: _____ CLIENT NO. _____ SURVEY DATE: 10/14, 2

SAMPLING PUMP DATA

Pump Type: | Manufacturer: | Model:

REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS

Collection Media: VCMS & XAD-2 w/GFF | Analysis Required: T02 & T013

SAMPLE DATA

OBG Instr. No.	Sample No.	Sampling Location (employee's name)	Collection Time Start	Collection Time End	Collection Duration (mins.)	Flow Rate cc/min Precal.	Flow Rate cc/min Postcal.	Sampler Position	No. of Persons in Area	Exposure Time (mins.)	Shift Duration (mins.)
3KC 25	AS-01-V	Exclusion zone AS-01	827	1626	479	40.1	41.9	B2			19.21 L
C-Linn 21925	AS-01-SV	Exclusion zone AS-01	827	1626	479	40.2	41.5				19.26 L
24 [illegible]	AS-03-SV	AS-03	857	1647	470	40.8	44.1				19.09 L
513551	AS-03-V	AS-03	857	1647	470	40.5	41.1				19.04 L
85-[illegible]	AS-07-SV	AS 03	857	1647	470	40.4	40.5				0.43 m/cc 2395.3T 18.[illegible] L
312 L6	AS-07-V	AS-03	857	1647	470	40.1	42.5				18.85
500969	AS06-V	AS-06	946	1746	480	41.6	41.6				0.41 m/cm 10462 19.17 L
[illegible]-05	AS06-SV	AS06	946	1746	480	41.8	40.1				20.06 L

COMMENTS: AS01-V T-920904-3C-106
AS03-V T921005-3C-108
AS07-V T-920909-3C-40
AS06-V T-920909 3C-37

Manager: JEB | Hygienist: MJP | Sampler: MJP & KW

55 AS-03-SV: The sampling pumps at location AS-03 for sample AS-03-SV were switched during the sampling event. Therefore, two minutes were lost during the sampling and the collection duration should remain 468 minutes.

Appendix 28

TABLE 1

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL LOCATION-SPECIFIC ARARs

Location	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
Within 100-year floodplain	Surface Water Soil	40 CFR 2646.18(b) 40 CFR 761.75	Facility must be designed, constructed, operated, and maintained to avoid washout.	E	R	N	NA
Within floodplain	Surface Water Soil	Executive Order 11988, Protection of Floodplains (40 CFR 6, Appendix A)	Action to avoid adverse effects, minimize potential harm, restore and preserve natural and beneficial values of the floodplain.	E	R	N	NA
Critical habitat which endangered species or threatened species depend	Biota	Endangered Species Act of 1973 (16 USC 1531 et seq.); 50 CFR Part 200, 50 CFR Part 402	Action to conserve endangered species or threatened species, including consultation with the Department of the Interior.	E	R	N	NA
Endangered Species and Habitats	Biota	10 VSA Sec. 5401	Protects listed species and unique environments	E	R	N	NA
Wetland	Surface Water Soil	Executive Order 11990, Protection of Wetlands (40 CFR 6, Appendix A)	Action to minimize the destruction, loss, or degradation of wetlands.	E	A	Y	NA
		Clean Water Act Section 404; 40 CFR Parts 230, 231	Action to prohibit discharge of dredged or fill material into wetland without permit.	E	A	Y	NA
Vermont Wetlands Rules (Waiver Pending)	Surface Water Soil	10 VSA Chapter 37, Section 905(7-9)	Regulates activities in wetlands	E	A	N	NA
Wilderness area	NA	Wilderness Act (16 USC 1131 et seq.); 50 CFR 35.1 et seq.	Area must be administered in such a manner as will leave it unimpaired as wilderness and to preserve its wilderness character.	E	A	N	NA
Wildlife refuge	Biota	16 USC 688 dd et seq.; 50 CFR Part 27	Only actions allowed under the provisions of 16 USC Section 668 dd(c) may be undertaken in areas that are part of the National Wildlife Refuge System.	E	R	N	NA
Area affecting stream or river	Biota	Fish and Wildlife Coordination Act (16 USC 661 et seq.); 40 CFR 6.302	Action to protect fish or wildlife.	E	A	N	NA

Key: H - ARAR is health-based
T - ARAR is technology-based
E - ARAR is environmentally-based
A - "Applicable"
R - "Relevant and Appropriate"

TABLE 1

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL LOCATION-SPECIFIC ARARs
(Continued)

Location	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
Within area affecting national wild, scenic, or recreational river	Biota	Wild and Scenic Rivers Act (16 USC 1271 et seq. Section 7(a); 40 CFR 6.302(e)	Avoid taking or assisting in action that will have direct adverse effect on scenic river.	E	A	N	NA
Within area where action may cause irreparable harm, loss, or destruction of significant artifacts	NA	National Archaeological and Historical Preservation Act (16 USC Section 469); 36 CFR Part 65.	Action to recover and preserve artifacts.	E	R	N	NA
Historical project owned or controlled by federal agency	NA	National Historic Preservation Act Section 106 (16 USC 470 et seq.); 36 CFR Part 800.	Action to preserve historic properties; planning of action to minimize harm to National Historic Landmarks.	E	R	N	NA
Historic Preservation	NA	22 VAS Chapter 11	Coordinates historic preservation activities	E	R	N	NA
Well head protection	Ground water	18 VSA Chapter 24, Sec. 1232, 1234, 1235, 1236, 1239, VHR Chapter 5	Designates well head protection zones	E	R	N	NA
Endangered Wetlands Rules	Biota	10 VSA Sec. 5401	Protects listed species and unique environments	E	R	N	NA
ACT 250' Land Use and Development Law	Facilities	10 VSA Chapter, 151, Env. Board Rules	Regulates development and subdivision as defined in statue	T	R	N	NA
LOCAL REGULATIONS							
Bennington Zoning Bylaws	Facilities		Regulates structures, land use, and activities	E	R	N	NA

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
Air Stripping	Air	CAA Section 101	Design system to provide odor-free operation.	E	R	N	G
	Air	40 CFR 52 40 CFR 61	File an Air Pollution Emission Notice (APEN) with the State to include estimation of emission rates for each pollutant expected.	T	R	Y	L/G
Capping	Facilities	40 CFR 264.310(a) (Landfills) 40 CFR 264.117(c) 40 CFR 264.228(b) 40 CFR 264.111	Placement of a cap over hazardous waste (e.g., closing a landfill, or closing a surface impoundment or water pile as a landfill, or similar action) requires a cover designed and constructed to comply with regulations.	T	A	N	L/G
Closure with Waste in Place (Capping)	Facilities	40 CFR 264.228(a)(2)	Eliminate free liquids by removal or solidification. Stabilization of remaining waste and waste residues to support cover.	T	A	N	L/G
		40 CFR 264.258(b) 40 CFR 264.310	Installation of final cover to provide long-term minimization of infiltration.	T	A	N	NA
			Post-closure care and ground water monitoring.	T	A	N	NA
Clean Closure (Removal)	Facilities	40 CFR 264.111	General performance standard requires minimization of need for further maintenance and control; minimization or elimination of post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products.	T	A	N	L/G
	Facilities	40 CFR 264.111 and 268	Disposal or decontamination of equipment, structures, and soils.	H	A	Y	NA

Key: H - ARAR is health-based
T - ARAR is technology-based
E - ARAR is environmentally-based
A - "Applicable"
R - "Relevant and Appropriate"

TABLE 1

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
	Facilities	40 CFR 264.228(a)(1) and 40 CFR 264.258	Removal or decontamination of all waste residues, contaminated containment system components (e.g., liners, dikes), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and management of them as hazardous waste.	H	A	Y	L
			Meet health-based levels at unit.	H	A	Y	L
Consolidation	Surface Water Soil	40 CFR 286 (Subpart D)	Placement on or in land outside unit boundary or area of contamination will trigger land disposal requirements and restrictions.	T/E	A	Y	L
	Air	CAA Section 101 and 40 CFR 52	Develop fugitive and odor emission control plan for this action if existing site plan is inadequate.	E	R	N	G
	Air	40 CFR 52 Additional from Air Stripping 40 CFR 61	File an Air Pollution Emission Notice (APEN) with state to include estimation of emission rates for each pollutant expected.	T	R	Y	L
Containment (Construction of New Surface Impoundment Onsite) (See Closure with Waste in Place and Clean Closure)	Facilities	40 CFR 264.220	Use two liners below the waste, a top liner that prevents waste migration into the liner, and a bottom liner that prevents waste migration through the liner throughout the post-closure period.	T	A	NA	NA
Dike Stabilization	Facilities	40 CFR 264.221	Design and operate facility to prevent overtopping due to overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, or other equipment; and human error.	T	A	N	L
Direct Discharge of Treatment System Effluent	Surface Water	50 CFR 30784 (July 29, 1985)	Applicable federal water quality criteria for the protection of aquatic life must be complied with when environmental factors are being considered.	E	R	Y	L
	Surface Water	40 CFR 122.44 and state regulations approved under 40 CFR 131	Applicable federally approved state water quality standards must be complied with. These standards may be in addition to or more stringent than other federal standards under the CWA.	E	R	Y	L

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
	Surface Water	CWA Section 208(b)	The discharge must be consistent with the requirement of a Water Quality Management plan approved by EPA under Section 208(b) of the Clean Water Act.	E	R	Y	L
	Surface Water	40 CFR 122.44(a)	Use of best available technology (BAT) economically achievable is required to control toxic and nonconventional pollutants. Use of best conventional pollutant control technology (BCT) is required to control conventional pollutants. Technology based limitations may be determined on a case-by-case basis.	T	R	Y	L
)irect Discharge of reatment System ffluent (Continued)	Surface Water	40 CFR 122.44(d)(4)	The discharge must conform to applicable water quality requirements when the discharge affects a state other than the certifying state.	E	R	Y	L
	Surface Water	40 CFR 122.44(c)	Discharge limitations must be established for all toxic pollutants that are or may be discharged at levels greater than those that can be achieved by technology-based standards.	T	R	Y	L
	Surface Water	40 CFR 122.44(i)	Discharge must be monitored to assure compliance. Discharge will monitor: • The mass of each pollutant discharged. • The volume of effluent discharged. • Frequency of discharge and other measurements as appropriate.	T	R	Y	L
	Surface Water	40 CFR 122.21	Approved test methods for waste constituents to be monitored must be followed. Detailed requirements for analytical procedures and quality controls are provided. Permit application information must be submitted, including a description of activities, listing of environmental permits, etc. Monitor and report results as required by permit (at least annually).	T	R	Y	L

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
	Surface Water	40 CFR 122.41(i)	Comply with additional permit conditions such as: • Duty to mitigate any adverse effects of any discharge. • Proper operation and maintenance of treatment systems.	T	R	Y	L
Direct Discharge of Treatment System Effluent (Continued)	Surface Water	40 CFR 125.100	Develop and implement a Best Management Practices (BMP) program and incorporate in the NPDES permit to prevent the release of toxic constituents to surface waters.	E	R	Y	L/G
		40 CFR 125.104	The BMP program must: • Establish specific procedures for the control of toxic and hazardous pollutant spills • Include a prediction of direction, rate of flow, and total quantity of toxic pollutants where experience indicates a reasonable potential for equipment failure. • Assure proper management of solid and hazardous waste in accordance with regulations promulgated under RCRA.				
	Surface Water	40 CFR 136.1-136.4	Sample preservation procedures, container materials, and maximum allowable holding times are prescribed.	T	R	Y	L

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
Discharge to POTW	Surface Water	40 CFR 403.5 40 CFR 264.71 and 40 CFR 264.72	Pollutants that pass through the POTW without treatment, interfere with POTW operation, or contaminate POTW sludge are prohibited. Discharge must comply with local POTW pretreatment program.	H/T	R	Y	L/G
Discharge of Dredge and Fill Material to Navigable Waters	Surface Water	40 CFR 230.10 33 CFR 320.330	five conditions must be satisfied before dredge and fill is an allowable alternative: • no practicable alternative. • Discharge of dredged or fill material must not cause a violation of state water quality standards, violate any applicable toxic effluent standards, jeopardize an endangered species, or injure a marine sanctuary. • No discharge shall be permitted that will cause or contribute to significant degradation of the water. • Appropriate steps to minimize adverse effects must be taken. • Determine long- and short-term effects on physical, chemical, and biological components of the aquatic ecosystem.	E/T	R	Y	L/G
Excavation	Facilities Facilities	40 CFR 264 Disposal and Closure Requirements 40 CFR 268 (Subpart D)	Area from which materials are excavated may required cleanup to levels established by closure requirements. Movement of excavated materials to a previously uncontaminated, onsite location, and placement in or on land may trigger land disposal restrictions.	T E	A A	Y Y	L L

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
	Facilities	40 CFR 268	Listed and characteristic hazardous wastes or soils and debris contaminated by a RCRA hazardous waste and removed from a CERCLA site may not be land disposed until treated as required by Land Ban. If alternative treatment technologies can achieve treatment similar to that required by Land Ban, and if this achievement can be documented, then a variance may not be required.	E	A	Y	L
	Air	CAA Section 101 and 40 CFR 52	Develop fugitive and odor emission control plan for this action if existing site plan is adequate.	E	R	N	G
Excavation (Continued)	Air	40 CFR 52 40 CFR 61	File an Air Pollution Emission Notice (APEN) with state to include estimation of emission rates for each pollutant expected.	E	R	N	G
Gas Collection	Air	52 CFR 3748 (February 5, 1987)	Proposed standards for control of emissions of volatile organics (CAA requirements to be provided).	H/E	R	Y	L
	Air	CAA Section 101 and 40 CFR 52 40 CFR 61	Design system to provide odor-free operation.	E	R	N	G
Operation and Maintenance (O&M)	Air	40 CFR 264.118 (RCRA, Subpart G)	Post-closure care to ensure that site is maintained and monitored.	H	R	N	L
Containers	Facilities	40 CFR 264 Subpart I	Handling and storage of hazardous waste containers	T	R	Y	L
Tanks	Facilities	40 CFR 264 Subpart I	Management of tanks storing hazardous waste	T	R	Y	L
Surface Impoundments	Facilities	40 CFR 264 Subpart K	Design, operation, monitoring and closure of surface impoundments	T	R	Y	L
Waste Piles	Facilities	40 CFR 264 Subpart K	Design, operation, monitoring and closure of waste piles	T	R	Y	L
Land Treatment	Facilities	40 CFR 264 Subpart M	Requirements for land disposal, landfilling, biodegradation, and land farming	T	R	Y	L

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
Landfills	Facilities	40 CFR 264 Subpart N	Design, operation, monitoring and closure of landfills	T	R	Y	L
Incinerators	Facilities	40 CFR 264 Subpart O	Incinerator performance standards; standards for monitoring, operation, and inspection	T	R	Y	L
Treatment Storage and Disposal Facility	Surface Soil	40 CFR 268	Regulations concerning land disposal, treatment and storage	T/E	R	Y	L
Removal	Facilities Surface Water	40 CFR 264.111	General performance standard requires minimization of need for further maintenance and control; minimization or elimination of post closure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products. Disposal or decontamination of equipment, structures, and soils.	H/T/E	A	Y	L/G
		40 CFR 264.228(a)(l) and 40 CFR 264.258	Removal or decontamination of all waste residues, contaminated containment system components (e.g., liners, dikes), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and management of them as hazardous waste. Meet health-based levels at unit.				
		40 CFR 268	RCRA hazardous wastes are subject to land disposal restriction. Land disposal restrictions set performance requirements on treatment of the wastes before land disposal. The effective date for final group of RCRA wastes is May 8, 1990. Extensions to the effective dates have been granted for specific RCRA wastes that are contained in soil and/or debris.				
		40 CFR 122	Construction stormwater discharge requirements.				
Surface Water Control	Surface Water	40 CFR 264.251(c)(d) 40 CFR 264.273(c)(d) 40 CFR 264.201(c)(d)	Prevent run-on, and control and collect runoff from a 24-hour, 25-year storm (waste piles, land treatment facilities, landfills).	H/T/E	R	N	G

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
	Facilities	40 CFR 264.221(c)	Prevent over-topping of surface impoundment.		A	N	L
	Surface Water	40 CFR 122	Construction stormwater discharge requirements.		A	Y	L/G
Treatment	Facilities	40 CFR 264 (Subpart X)	Standards for miscellaneous units (long-term retrievable storage, thermal treatment other than incinerators, open detonation, chemical, physical, and biological treatment units using other than tanks, surface impoundments, or land treatment units) require new miscellaneous units to satisfy environmental performance standards by protection of ground water, surface water, and air quality, and by limiting surface and subsurface migration.	H/T/E	R	Y	L/G
	Facilities	40 CFR 268 (Subpart D)	Treatment of wastes subject to ban on land disposal must attain levels achievable by best demonstrated available treatment technologies (BDAT) for each hazardous constituent in each listed waste.	T	A	Y	G
	Air	CAA Section 101	Prepare fugitive and odor emission control plan for this action.	E	R	G	N
	Air	40 CFR 52	File an Air Pollution Emission Notice (APEN) with state to include estimation of emission rates for each pollutant expected.	T	R	L/G	Y
Underground Injection of Wastes and Treated Ground Water	Ground Water	40 CFR 144.12	UIC program prohibits: • Injection activities that allow movement of contaminants into underground sources of drinking water (USDW) and result in violations of MCLs or adversely affect health.	H/T/E	R	Y	L
		40 CFR 144.13	• Construction of new Class IV wells, and operation and maintenance of existing wells.				
		40 CFR 144.14	Wells used to inject contaminated ground water that has been treated and is being reinjected into the same formation from which it was withdrawn are not prohibited if activity is part of CERCLA or RCRA actions.				
		40 CFR 144.16	All hazardous waste injection wells must also comply with the RCRA requirements.				

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION-SPECIFIC ARARs
(Continued)

Action	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
Waste Pile	Facilities	40 CFR 264.251	Use liner and leachate collection and removal system.	T	R	L	Y

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION - SPECIFIC ARARs
(Continued)

Authority	Medium	Citation	Regulatory Summary	H/T/E	A/R	Enforcement Level or Goal	Numerical Basis Y/N
Well head protection	Ground water	18 VSA Chapter 24, Sec. 1232, 1234, 1235, 1236, 1239, VHR Chapter 5	Designates well protection zones	E	R	G	N
Solid Waste Management Rules	Facilities	EPR Chapter 6-101ff	Regulates solid waste disposal	H/T/E	A	G	N
Endangered Species and Habitats	Biota	10 VSA Sec. 5401	Protects listed species and unique environments	E	R	G	N
Vermont Wetlands Rules	Surface water soil	10 VSA Sec. 905(7-9)	Regulates activities in wetlands	E	R	L	N
Indirect Discharge Rules	Ground water Surface water	10 VSA Chapter 47	Regulates indirect discharges over 6500 gallons per day	E	R	L	Y
Stormwater Discharge Permit	Surface water	10 VAS Sec. 4152	Limits stormwater runoff off premises				
Water Quality Standards	Surface water	EPR Chapter 1, 10 VSA Chapter 47	Designates uses and sets ambient water quality standards				
Stream Alternation	Surface water	10 VSA Chapter 4	Regulates and permits activities in streams				
Water Supply and Wastewater Permit	Facilities	10 VSA Chapter 6	Regulates water supply and wastewater facility design and construction				
Scientific Collection Permit	Biota	10 VSA 4152	Regulates the taking of animals for research purposes	E	R	G	N
Air Pollution Control	Air	10 VSA Sec. 554, Subchapter VIII	Source registration and pollution control requirements	H/T	A	L	Y

TABLE 2

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL VERMONT AND FEDERAL ACTION - SPECIFIC ARARS
(Continued)

Authority	Medium	Citation	Regulatory Summary	H/T/E	A/R	Enforcement Level or Goal	Numerical Basis Y/N
LAND USE AND DEVELOPMENT							
ACT 250 Land Use and Development Law	Facilities	10 VSA Chapter, 151, Env. Board Rules	Regulates development and subdivision as defined in statute.	E	R	NA	N
LOCAL REGULATIONS	NA						
Bennington Zoning Bylaws			Regulates structures, land use, and activities.	E	R	NA	N

TABLE 3

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL FEDERAL CHEMICAL-SPECIFIC ARARs

Authority	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
SAFE DRINKING WATER ACT							
National Primary Drinking Water Standards	Ground Water Surface Water	40 CFR 141	Maximum contamination level (MCL permitted in public water supply	H	R	Y	L
Maximum Contaminant Level Goals	Ground Water Surface Water	40 CFR 141.50-141.51	MCL goals for drinking water at which no known adverse health effect, w/margin	H	R	Y	G
Secondary Drinking Water Standards	Ground Water Surface Water	40 CFR 143	Secondary MCLs affecting potability	NA	R	Y	L
CLEAN WATER ACT							
NPDES Permit	Surface Water	40 CFR Parts 122, 123, 125	Permit for direct discharge of treated effluent	H/T	R	Y	L
	Surface Water	40 CFR Part 120 CWA Section 304(a)(1)	Ambient water quality criteria	H/E	A	Y	G
RESOURCE CONSERVATION AND RECOVERY ACT							
Hazardous Waste Regulations	Facilities	40 CFR 260-264	Standards applicable to the generation, storage, and disposal of hazardous wastes	H/T/E	A	Y	L/G
	Facilities	40 CFR 261	Generator requirements for identification and listing of hazardous wastes				
Ground Water Protection and Monitoring	Facilities	40 CFR 264 Subpart F	Protection standards, hazardous constituents, monitoring and compliance	T	R	Y	L
Closure and Post-Closure	Facilities	40 CFR 264.110-264.120 40 CFR 265.110-265.120	Requirements for closure of a hazardous waste management facility	T	R	NA	NA
Land Disposal Restrictions	Facilities	40 CFR 268 Subparts A-E	Treatment standards, prohibitions on disposal and storage	T	R	Y	L/G

Key: H - ARAR is health-based
T - ARAR is technology-based
E - ARAR is environmentally-based
A - "Applicable"

TABLE 3

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL FEDERAL CHEMICAL - SPECIFIC ARARs
(Continued)

Authority	Medium	Citation	Regulatory Summary	H/T/E	A/R	Numerical Basis Y/N	Enforcement Level or Goal
CLEAN AIR ACT							
National Ambient Air Quality Standards	Air	40 CFR 50	Ambient air standards for priority pollutants	H	A	N	NA
National Emissions Standards for Hazardous Air Pollutants	Air	40 CFR 61	Emission standards for hazardous air pollutants which are those for which no ambient air quality standards exist	H	A	N	G/L
COMPREHENSIVE EMERGENCY RESPONSE AND COMPENSATION LIABILITY ACT (CERCLA)							
Superfund Amendments and Authorization Act	Surface Water Ground Water Air Soil	42 USC 9601	Clean-up standards and response actions	H/E	A	Y	L/G
TOXIC SUBSTANCES CONTROL ACT (TSCA)							
PCB Requirements	Soil	40 CFR Part 761	Manufacture, distribution and use of PCBs	H/E	R	Y	L
OTHER FEDERAL REGULATIONS							
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)	Soil	40 CFR Part 165	Management and control of pesticides	H/E	A	Y	
HAZARDOUS WASTE MANAGEMENT ACT							
State Regulated Wastes	N/A	10 VSA 6605, 6607, 6608, 6609, and 6610a	Regulates waste in addition to federally designated hazardous waste; state approved RCRA program	T	A	Y	NA
GROUND WATER PROTECTION							
Ground Water Standards	Ground Water	10 VSA Chapter 48, Section 905	Sets standards for chemicals in ground water	H	A	Y	L
AIR POLLUTION CONTROL							
Control of Hazardous Air Contaminants	Air	EPR 5-261, Appendix C	Lists hazardous contaminants and sets Hazard Limiting Values and Action Limits				

TABLE 3

BURGESS BROTHERS SUPERFUND SITE
BENNINGTON AND WOODFORD, VERMONT

POTENTIAL FEDERAL CHEMICAL - SPECIFIC ARARs
(Continued)

Authority	Medium	Citation	Regulatory Summary	H/T/I	A/R	Numerical Basis Y/N	Enforcement Level or Goal
WATER POLLUTION CONTROL							
Water Quality Standards	Surface Water	EPR Chapter 1, 10 VSA Chapter 47	Designates uses and sets ambient water quality standards	H/T	A	Y	L
Drinking Water Standards	Surface Water Ground Water	18 VSA Chapter 24, Sec. 1232, 1234, 1235, 1236, 1239, VHR Chapter 5	Primacy under federal regulations for public water supplies	H	A	Y	L/G