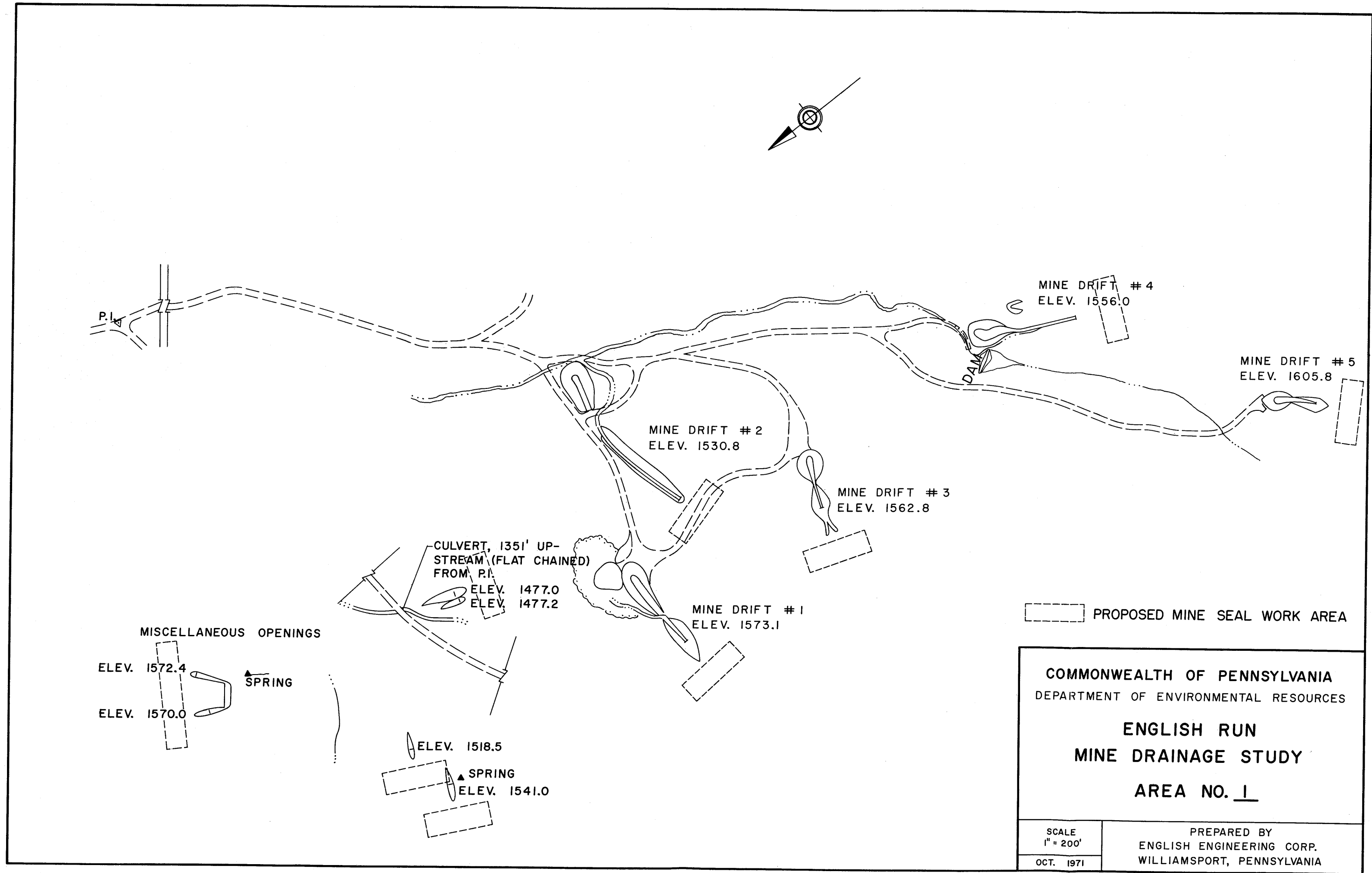


APPENDIX (A)



PROPOSED MINE SEAL WORK AREA

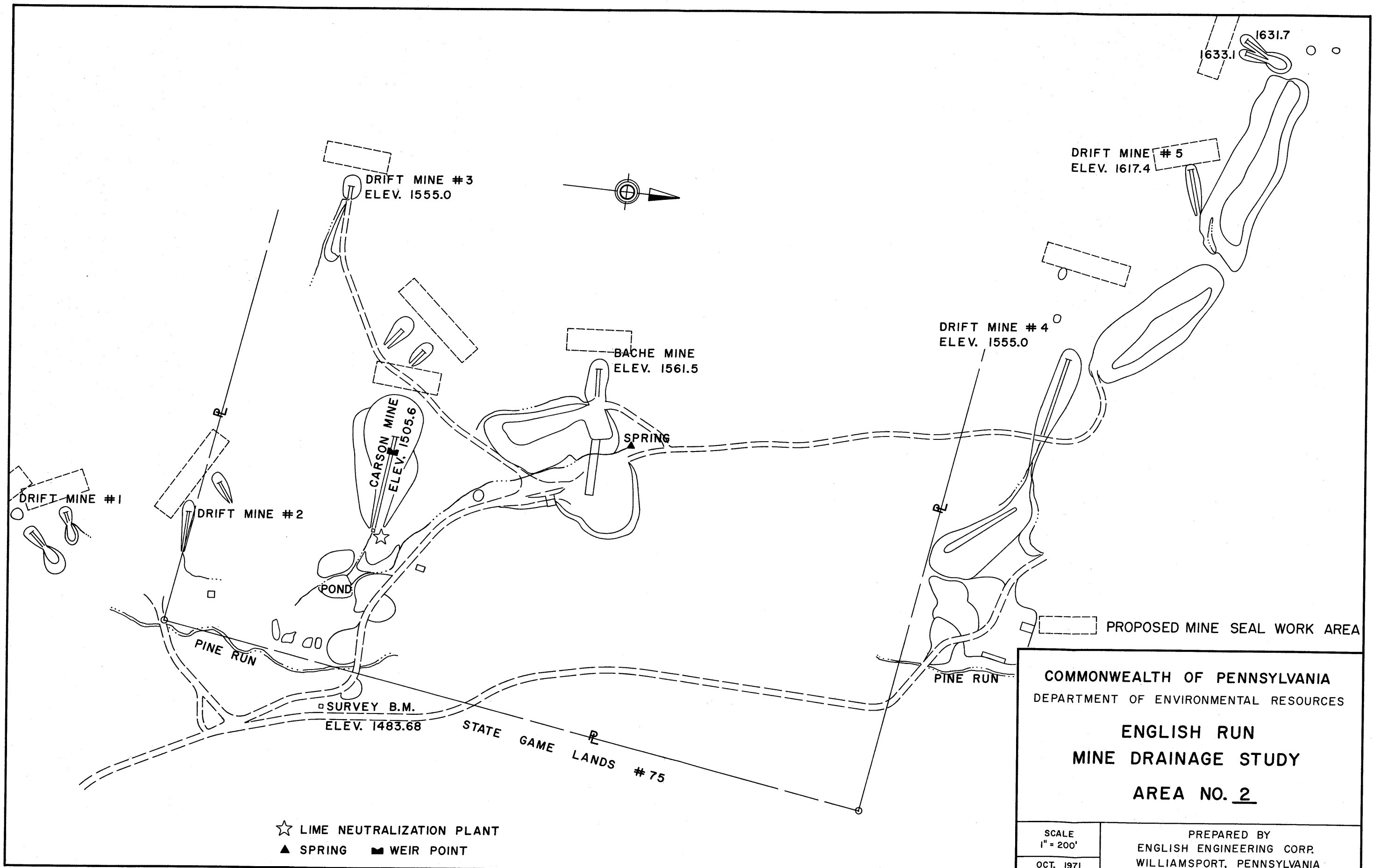
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES

ENGLISH RUN
MINE DRAINAGE STUDY

AREA NO. 1

SCALE
 1" = 200'
 OCT. 1971

PREPARED BY
 ENGLISH ENGINEERING CORP.
 WILLIAMSPORT, PENNSYLVANIA



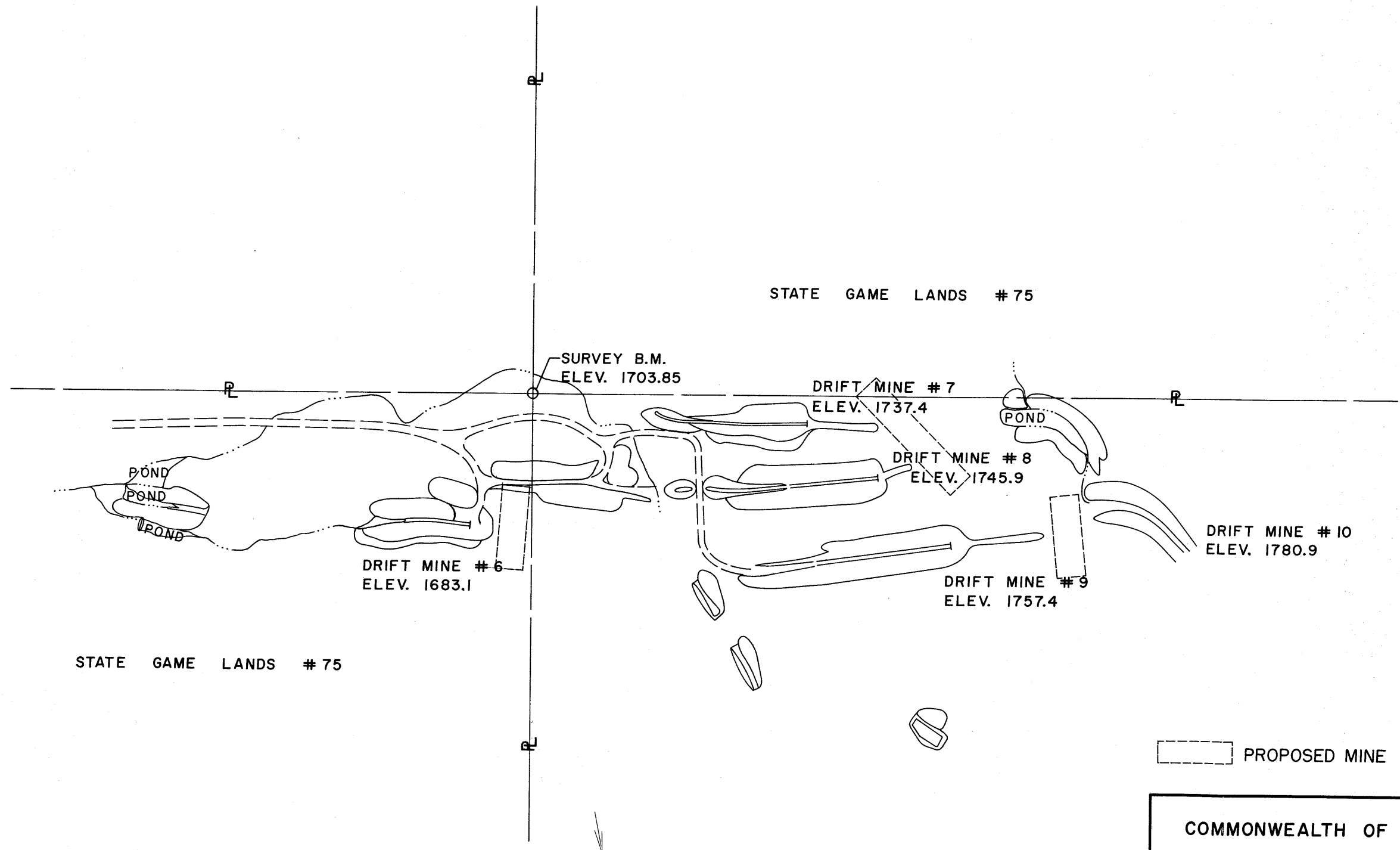
☆ LIME NEUTRALIZATION PLANT
 ▲ SPRING ▣ WEIR POINT

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 ENGLISH RUN
 MINE DRAINAGE STUDY
 AREA NO. 2

SCALE
 1" = 200'
 OCT. 1971

PREPARED BY
 ENGLISH ENGINEERING CORP.
 WILLIAMSPORT, PENNSYLVANIA

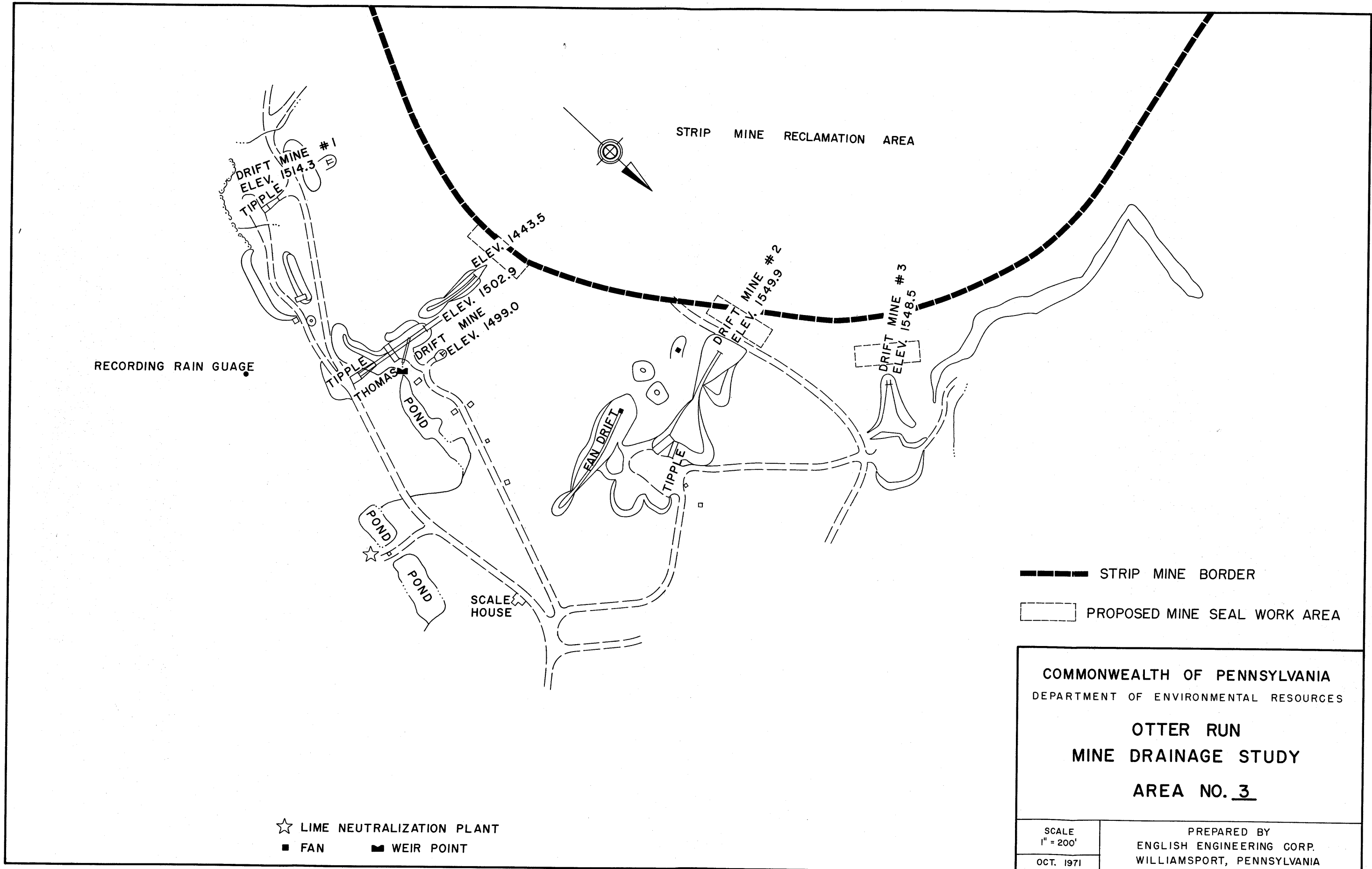
STATE GAME LANDS # 75



STATE GAME LANDS # 75

PROPOSED MINE SEAL WORK AREA

| | |
|--|---|
| <p>COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES</p> <p>ENGLISH RUN MINE DRAINAGE STUDY</p> <p>AREA NO. <u>2A</u></p> | |
| <p>SCALE 1" = 200'</p> | <p>PREPARED BY ENGLISH ENGINEERING CORP. WILLIAMSPORT, PENNSYLVANIA</p> |
| <p>OCT. 1971</p> | |



STRIP MINE RECLAMATION AREA

DRIFT MINE #1
ELEV. 1514.3
TIPPLE

ELEV. 1443.5

DRIFT MINE
ELEV. 1502.9
ELEV. 1499.0

DRIFT MINE #2
ELEV. 1549.9

DRIFT MINE #3
ELEV. 1548.5

RECORDING RAIN GAUGE

TIPPLE

THOMAS

POND

FAN DRIFT

TIPPLE

POND

POND

SCALE HOUSE

STRIP MINE BORDER

PROPOSED MINE SEAL WORK AREA

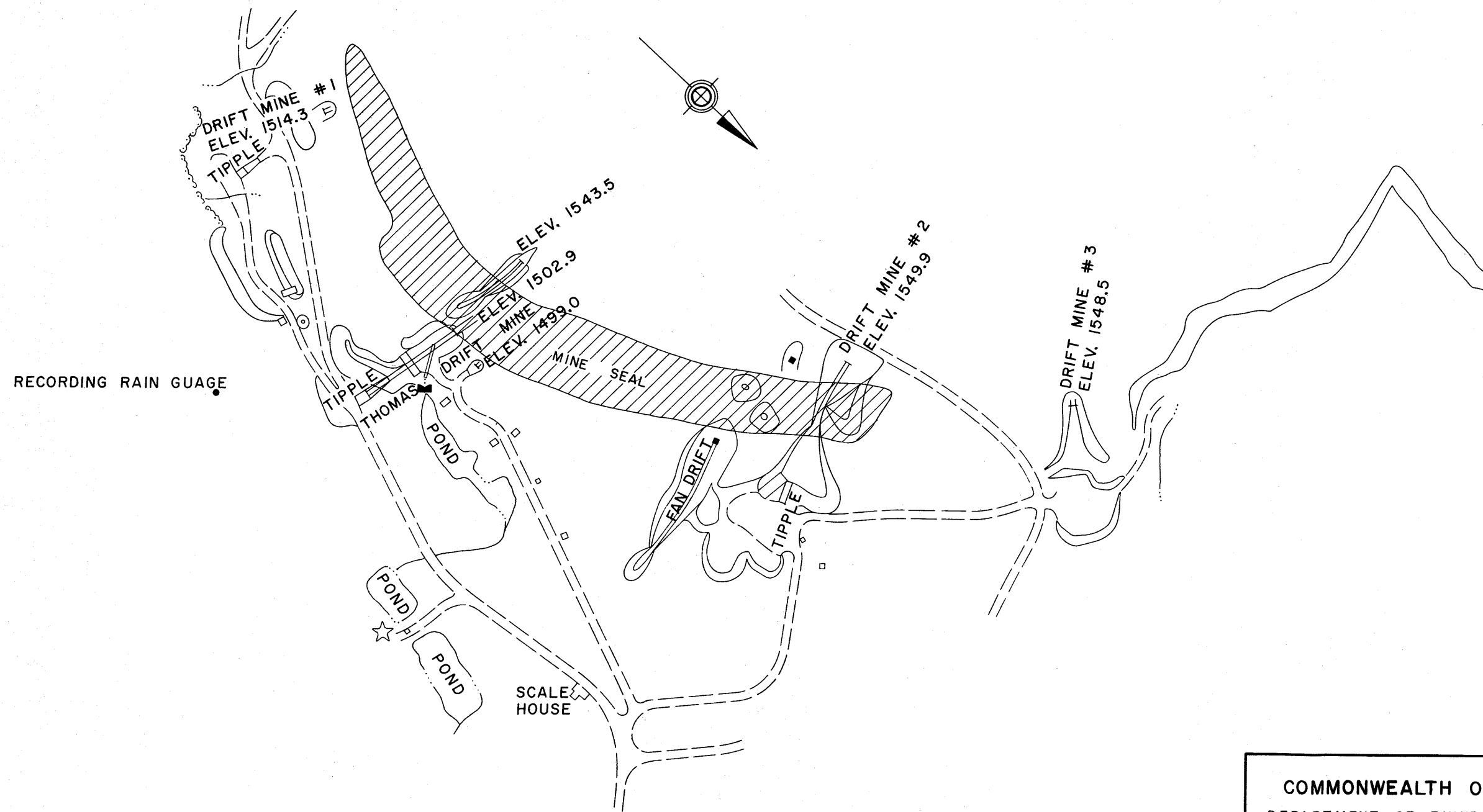
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

OTTER RUN
MINE DRAINAGE STUDY
AREA NO. 3

★ LIME NEUTRALIZATION PLANT
■ FAN ■ WEIR POINT

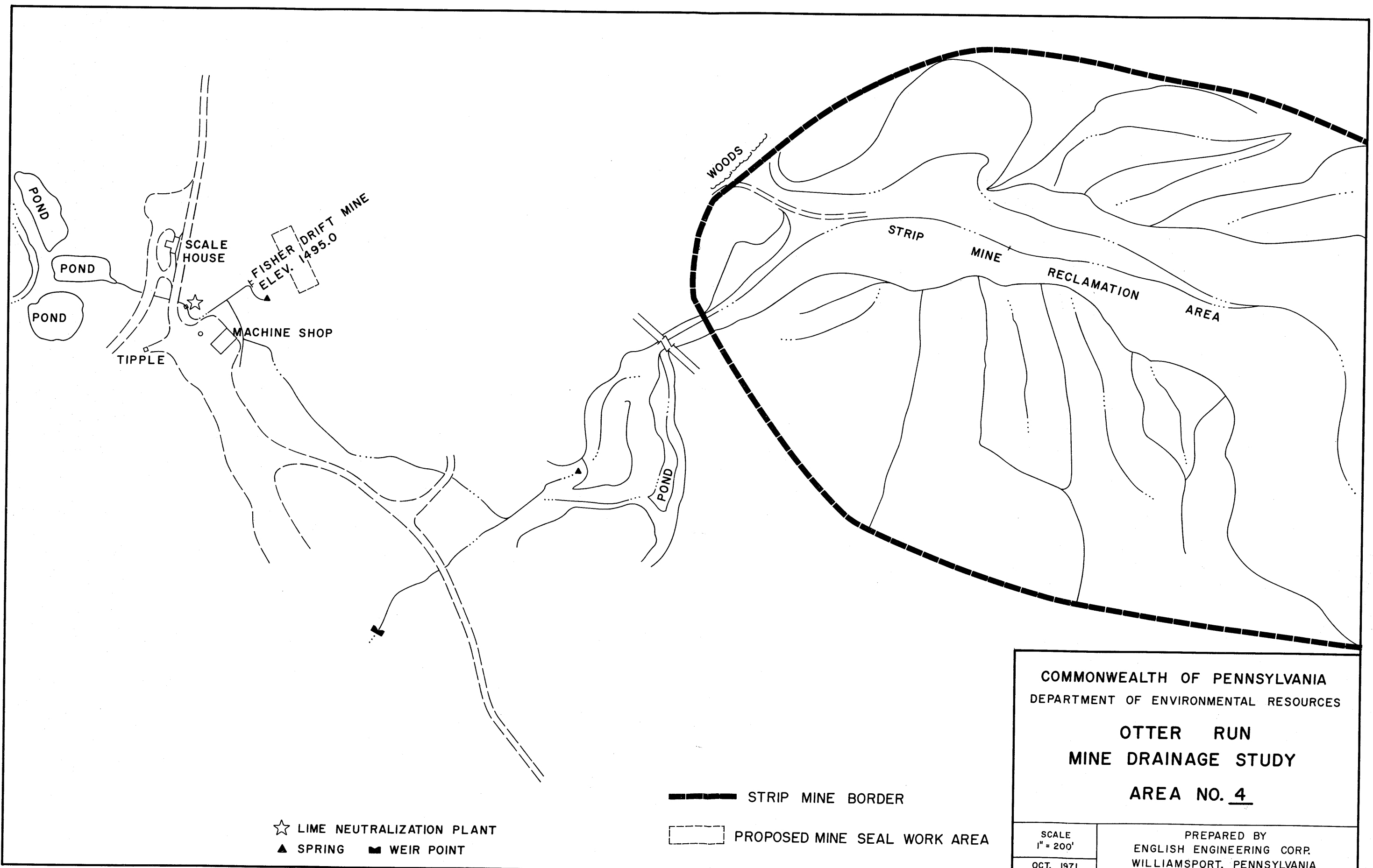
SCALE
1" = 200'
OCT. 1971

PREPARED BY
ENGLISH ENGINEERING CORP.
WILLIAMSPORT, PENNSYLVANIA



☆ LIME NEUTRALIZATION PLANT
 ■ FAN ■ WEIR POINT

| | |
|---|--|
| COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES | |
| OTTER RUN MINE DRAINAGE STUDY AREA NO. 3 MINE SEAL | |
| SCALE 1" = 200' OCT. 1971 | PREPARED BY ENGLISH ENGINEERING CORP. WILLIAMSPORT, PENNSYLVANIA |



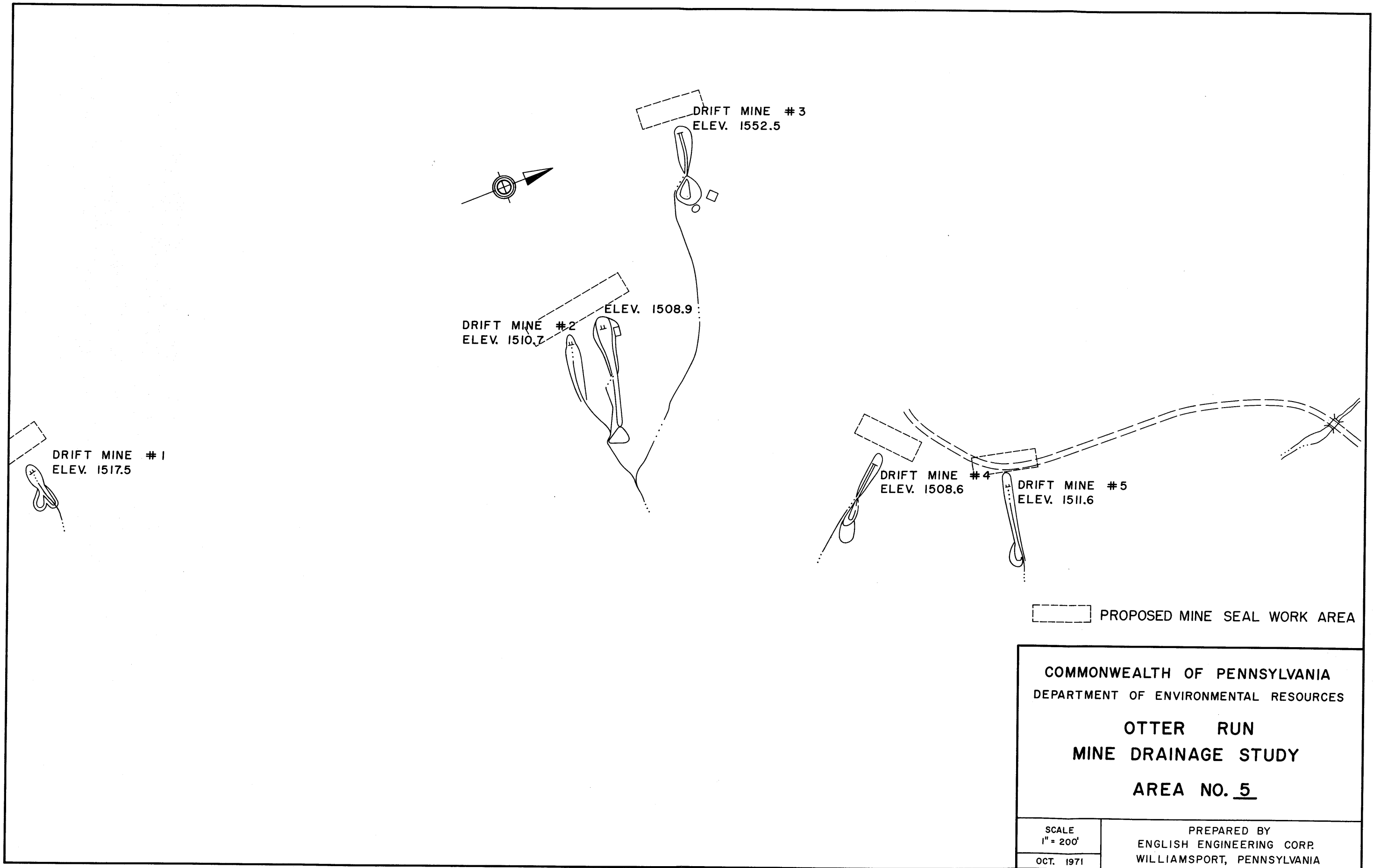
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES

OTTER RUN
MINE DRAINAGE STUDY
AREA NO. 4

| | |
|---------------------------------|--|
| SCALE 1" = 200' OCT. 1971 | PREPARED BY ENGLISH ENGINEERING CORP. WILLIAMSPORT, PENNSYLVANIA |
|---------------------------------|--|

☆ LIME NEUTRALIZATION PLANT
 ▲ SPRING ■ WEIR POINT

——— STRIP MINE BORDER
 - - - - - PROPOSED MINE SEAL WORK AREA



DRIFT MINE #1
ELEV. 1517.5

DRIFT MINE #2
ELEV. 1510.7

ELEV. 1508.9

DRIFT MINE #3
ELEV. 1552.5

DRIFT MINE #4
ELEV. 1508.6

DRIFT MINE #5
ELEV. 1511.6

PROPOSED MINE SEAL WORK AREA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

OTTER RUN
MINE DRAINAGE STUDY

AREA NO. 5

SCALE
1" = 200'
OCT. 1971

PREPARED BY
ENGLISH ENGINEERING CORP.
WILLIAMSPORT, PENNSYLVANIA

Table 1-A: English Run Water Analyses

Station No. A-B

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|------------|----------|--------|---------|------------|-------------|---------|
| A-1 | 7-2-70 | 5.8 | 6 | - | 0.1 | 34 |
| A-2 | 7-9-70 | 5.3 | - | - | 1.2 | 56 |
| A-3 | 7-17-70 | 6.2 | - | 6 | 0.1 | 16 |
| A-4 | 7-24-70 | 5.1 | 2 | - | 0.15 | 32 |
| A-5 | 7-31-70 | 5.7 | - | - | 3.0 | 58 |
| A-6 | 8-10-70 | 6.6 | - | - | 0.1 | 28 |
| A-7 | 8-15-70 | 6.2 | - | - | 0.1 | 20 |
| A-8 | 8-22-70 | 6.4 | - | - | 0.15 | 28 |
| A-9 | 9-4-70 | 6.2 | - | 6 | 0.1 | 16 |
| A-10 | 9-18-70 | 6.4 | - | 6 | 0.4 | 36 |
| A-11 | 10-8-70 | 6.1 | - | - | 0.1 | 58 |
| A-12 | 11-9-70 | 5.5 | - | - | 0.1 | 10 |
| A-13 | 11-30-70 | 4.8 | - | - | 0.25 | 20 |
| A-14 | 12-14-70 | 5.6 | - | - | 0.1 | 28 |
| A-15 | 12-28-70 | 5.1 | 4 | - | 0.48 | 32 |
| A-16 | 1-11-71 | 5.7 | - | - | 0.2 | 32 |
| A-17 | 1-25-71 | 5.8 | - | - | 0.3 | 32 |
| A-18 | 2-9-71 | 5.6 | - | - | 0.35 | 24 |
| A-19 | 2-21-71 | 5.4 | 6 | - | 0.35 | 22 |
| A-20 | 3-9-71 | 5.5 | - | - | 0.45 | 32 |
| A-21 | 3-20-71 | 5.1 | 12 | - | 0.1 | 38 |
| A-22 | 4-5-71 | 5.3 | 4 | - | 0.1 | 36 |
| A-23 | 4-17-71 | 5.4 | - | - | 0.45 | 120 |
| A-24 | 4-28-71 | 6.1 | 2 | - | 0.1 | 44 |
| A-25 | 5-15-71 | 5.6 | 2 | - | 0.1 | 130 |
| A-26 | 5-29-71 | 6.3 | 4 | - | 0.4 | 40 |
| A-27 | 6-11-71 | 6.4 | - | 6 | 0.2 | 32 |
| A-28 | 6-25-71 | 6.4 | - | 6 | 0.7 | 38 |
| A-29 | 7-9-71 | 6.5 | - | 4 | 0.1 | 32 |
| Total(s) | | 168.1 | 42.0 | 34.0 | 10.33 | 1124.0 |
| Average(s) | | (5.80) | (1.45) | (1.17) | (0.356) | (38.76) |
| B-1 | 7-2-70 | 6.0 | 2 | - | 0.1 | 28 |
| B-2 | 7-9-70 | 5.9 | - | - | 0.6 | 36 |
| B-3 | 7-17-70 | 6.8 | - | 6 | 0.1 | 20 |
| B-4 | 7-24-70 | 5.6 | - | - | 0.1 | 32 |
| B-5 | 7-31-70 | 6.0 | - | - | 2.5 | 68 |
| B-6 | 8-10-70 | 6.5 | - | 4 | 0.1 | 28 |
| B-7 | 8-15-70 | 6.3 | - | 6 | 0.1 | 20 |
| B-8 | 8-22-70 | 6.3 | - | - | 0.3 | 28 |
| B-9 | 9-4-70 | 6.4 | - | 4 | 0.15 | 36 |
| B-10 | 9-18-70 | 6.5 | - | - | 0.35 | 44 |
| B-11 | 10-8-70 | 6.3 | - | 4 | 0.1 | 44 |
| B-12 | 11-9-70 | 4.8 | 2 | - | 0.1 | 12 |
| B-13 | 11-30-70 | 5.7 | 4 | - | 0.25 | 22 |
| B-14 | 12-14-70 | 5.6 | - | 4 | 0.5 | 24 |
| B-15 | 12-28-70 | 5.4 | - | 2 | 0.32 | 38 |
| B-16 | 1-11-71 | 5.7 | - | - | 0.1 | 24 |
| B-17 | 1-25-71 | 5.9 | - | - | 0.1 | 24 |
| B-18 | 2-9-71 | 5.7 | - | - | 0.45 | 32 |
| B-19 | 2-21-71 | 5.4 | - | 2 | 0.4 | 20 |
| B-20 | 3-9-71 | 5.4 | 4 | - | 0.3 | 24 |
| B-21 | 3-20-71 | 5.2 | 2 | - | 0.3 | 24 |

Station No. B-C-D

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| B-22 | 4-5-71 | 5.5 | 8 | - | 0.1 | 40 |
| B-23 | 4-17-71 | 5.3 | - | - | 0.55 | 110 |
| B-24 | 4-28-71 | 5.9 | - | - | 0.1 | 24 |
| B-25 | 5-15-71 | 5.5 | 2 | - | 0.1 | 32 |
| B-26 | 5-29-71 | 6.1 | - | 2 | 0.1 | 38 |
| B-27 | 6-11-71 | 6.3 | - | 4 | 0.2 | 54 |
| B-28 | 6-25-71 | 6.4 | - | 4 | 0.4 | 32 |
| B-29 | 7-9-71 | 6.3 | - | 4 | 0.1 | 24 |
| Total(s) | | 170.7 | 24.0 | 46.0 | 8.97 | 982.0 |
| Averages | | (5.89) | (0.83) | (1.59) | (0.309) | (33.86) |
| C-1 | 7-2-70 | 6.0 | 4 | - | 0.1 | 28 |
| C-2 | 7-9-70 | 5.3 | - | - | 1.2 | 110 |
| C-3 | 7-17-70 | 6.3 | - | 8 | 0.1 | 28 |
| C-4 | 7-24-70 | 5.5 | 6 | - | 0.1 | 28 |
| C-5 | 7-31-70 | 5.4 | - | - | 0.15 | 36 |
| C-6 | 8-10-70 | 6.4 | - | 6 | 0.25 | 28 |
| C-7 | 8-15-70 | 5.9 | - | 4 | 0.25 | 20 |
| C-8 | 8-22-70 | 6.4 | - | 6 | 0.2 | 34 |
| C-9 | 9-4-70 | 6.4 | - | 4 | 0.2 | 36 |
| C-10 | 9-18-70 | 6.4 | - | 4 | 0.4 | 28 |
| C-11 | 10-8-70 | 6.4 | - | - | 0.35 | 42 |
| C-12 | 11-9-70 | 4.7 | 6 | - | 0.1 | 22 |
| C-13 | 11-30-70 | 5.4 | - | - | 0.2 | 32 |
| C-14 | 12-14-70 | 5.3 | 6 | - | 0.4 | 20 |
| C-15 | 12-28-70 | 5.2 | - | - | 0.55 | 40 |
| C-16 | 1-11-71 | 5.4 | - | - | 0.2 | 28 |
| C-17 | 1-25-71 | 5.7 | - | 6 | 0.1 | 22 |
| C-18 | 2-9-71 | 5.7 | - | - | 0.25 | 38 |
| C-19 | 2-21-71 | 5.3 | - | 2 | 0.6 | 16 |
| C-20 | 3-9-71 | 5.3 | - | 2 | 0.1 | 38 |
| C-21 | 3-20-71 | 5.1 | - | - | 0.35 | 22 |
| C-22 | 4-5-71 | 5.0 | 6 | - | 0.1 | 38 |
| C-23 | 4-17-71 | 5.3 | - | - | 0.55 | 110 |
| C-24 | 4-28-71 | 5.8 | - | - | 0.1 | 32 |
| C-25 | 5-15-71 | 5.2 | 8 | - | 0.1 | 38 |
| C-26 | 5-29-71 | 5.8 | 4 | - | 0.1 | 24 |
| C-27 | 6-11-71 | 6.3 | - | 4 | 0.2 | 38 |
| C-28 | 6-25-71 | 6.3 | - | 6 | 0.55 | 24 |
| C-29 | 7-9-71 | 6.3 | - | 4 | 0.1 | 38 |
| Total(s) | | 165.5 | 40.0 | 56.0 | 7.95 | 1038.0 |
| Averages | | (5.71) | (1.38) | (1.93) | (0.274) | (35.79) |
| D-1 | 7-2-70 | 5.8 | - | - | 0.1 | 34 |
| D-2 | 7-9-70 | 5.7 | 2 | - | 1.8 | 60 |
| D-3 | 7-17-70 | 6.3 | - | - | 0.1 | 28 |
| D-4 | 7-24-70 | 5.6 | - | 2 | 0.1 | 28 |
| D-5 | 7-31-70 | 5.7 | - | - | 0.4 | 28 |
| D-6 | 8-10-70 | 6.3 | - | - | 0.15 | 20 |
| D-7 | 8-15-70 | 5.8 | - | 6 | 0.25 | 34 |
| D-8 | 8-22-70 | 6.4 | - | 6 | 0.2 | 34 |
| D-9 | 9-4-70 | 6.4 | - | 8 | 0.25 | 58 |
| D-10 | 9-18-70 | 6.4 | - | - | 0.1 | 44 |
| D-11 | 10-8-70 | 6.4 | - | 4 | 0.4 | 42 |
| D-12 | 11-9-70 | 4.7 | - | 4 | 0.1 | 10 |

Station No. D-E

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| D-13 | 11-30-70 | 5.4 | - | - | 0.4 | 28 |
| D-14 | 12-14-70 | 5.3 | - | - | 0.2 | 28 |
| D-15 | 12-28-70 | 5.2 | - | - | 0.4 | 22 |
| D-16 | 1-11-71 | 5.4 | - | - | 0.1 | 22 |
| D-17 | 1-25-71 | 5.7 | - | - | 0.1 | 38 |
| D-18 | 2-9-71 | 5.7 | - | - | 0.3 | 22 |
| D-19 | 2-21-71 | 5.3 | - | - | 0.55 | 16 |
| D-20 | 3-9-71 | 5.3 | - | - | 0.1 | 20 |
| D-21 | 3-20-71 | 5.1 | - | - | 0.35 | 32 |
| D-22 | 4-5-71 | 5.0 | 10 | - | 0.1 | 32 |
| D-23 | 4-17-71 | 5.3 | - | - | 0.35 | 120 |
| D-24 | 4-25-71 | 5.8 | - | - | 0.1 | 48 |
| D-25 | 5-15-71 | 5.2 | 2 | - | 0.1 | 24 |
| D-26 | 5-29-71 | 5.8 | - | - | 0.1 | 38 |
| D-27 | 6-11-71 | 6.2 | - | 2 | 0.1 | 32 |
| D-28 | 6-14-71 | 5.5 | - | - | 1.6 | 32 |
| D-29 | 6-25-71 | 6.3 | - | 2 | 0.8 | 40 |
| D-30 | 7-9-71 | 6.3 | - | 6 | 0.1 | 28 |
| Total(s) | | 171.3 | 14.0 | 40.0 | 9.80 | 1042.0 |
| Averages | | (5.71) | (0.47) | (1.33) | (0.327) | (34.73) |
| E-1 | 7-2-70 | 4.4 | 4 | - | 0.1 | 20 |
| E-2 | 7-9-70 | 5.0 | 4 | - | 0.6 | 28 |
| E-3 | 7-17-70 | 5.9 | - | 2 | 0.1 | 16 |
| E-4 | 7-24-70 | 4.7 | 10 | - | 0.25 | 20 |
| E-5 | 7-31-70 | 4.9 | - | - | 0.55 | 20 |
| E-6 | 8-10-70 | 5.1 | 2 | - | 0.25 | 16 |
| E-7 | 8-15-70 | 4.4 | 6 | - | 0.1 | 34 |
| E-8 | 8-22-70 | 4.7 | - | - | 0.5 | 42 |
| E-9 | 9-4-70 | 4.8 | - | 2 | 0.15 | 34 |
| E-10 | 9-18-70 | 4.9 | - | - | 0.7 | 28 |
| E-11 | 10-8-70 | 4.9 | 4 | - | 0.25 | 48 |
| E-12 | 10-23-70 | 4.6 | 6 | - | 0.1 | 42 |
| E-13 | 11-9-70 | 4.2 | 6 | - | 0.3 | 16 |
| E-14 | 11-30-70 | 4.8 | - | - | 0.35 | 24 |
| E-15 | 12-14-70 | 4.9 | - | - | 0.9 | 28 |
| E-16 | 12-28-70 | 4.4 | 4 | - | 0.1 | 24 |
| E-17 | 1-11-71 | 4.4 | 6 | - | 0.1 | 22 |
| E-18 | 1-25-71 | 4.4 | 8 | - | 0.1 | 22 |
| E-19 | 2-9-71 | 4.5 | - | 2 | 0.4 | 16 |
| E-20 | 2-21-71 | 4.9 | - | - | 0.35 | 12 |
| E-21 | 3-9-71 | 4.7 | - | - | 0.1 | 22 |
| E-22 | 3-20-71 | 4.8 | - | 4 | 0.1 | 20 |
| E-23 | 4-5-71 | 4.7 | 10 | - | 0.25 | 40 |
| E-24 | 4-17-71 | 4.7 | 8 | - | 0.7 | 110 |
| E-25 | 4-28-71 | 4.7 | 4 | - | 0.3 | 38 |
| E-26 | 5-15-71 | 4.6 | 10 | - | 0.1 | 48 |
| E-27 | 5-29-71 | 4.7 | 4 | - | 0.1 | 32 |
| E-28 | 6-11-71 | 4.6 | - | - | 0.2 | 22 |
| E-29 | 6-25-71 | 5.0 | - | 2 | 0.75 | 28 |
| E-30 | 7-9-71 | 4.3 | 4 | - | 0.1 | 28 |
| Total(s) | | 141.6 | 100.0 | 12.0 | 8.90 | 900.0 |
| Averages | | (4.72) | (3.33) | (0.40) | (0.297) | (30.0) |

Station No. F-G

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| F-1 | 7-2-70 | 5.4 | - | - | 0.1 | 16 |
| F-2 | 7-9-70 | 5.7 | - | - | 0.1 | 16 |
| F-3 | 7-17-70 | 5.9 | - | - | 0.1 | 20 |
| F-4 | 7-24-70 | 5.3 | 6 | - | 0.1 | 8 |
| F-5 | 7-31-70 | 5.5 | 2 | - | 2.0 | 28 |
| F-6 | 8-10-70 | 5.7 | - | - | 0.25 | 16 |
| F-7 | 8-15-70 | 5.4 | - | - | 0.15 | 12 |
| F-8 | 8-22-70 | 5.5 | - | - | 0.3 | 42 |
| F-9 | 9-4-70 | 5.8 | - | - | 0.2 | 28 |
| F-10 | 9-18-70 | 5.8 | 2 | - | 0.1 | 42 |
| F-11 | 10-8-70 | 5.8 | 2 | - | 0.1 | 42 |
| F-12 | 11-9-70 | 4.6 | - | - | 0.1 | 12 |
| F-13 | 11-30-70 | 5.5 | - | - | 0.25 | 16 |
| F-14 | 12-14-70 | 5.4 | - | 2 | 2.7 | 36 |
| F-15 | 12-28-70 | 5.1 | - | 6 | 0.25 | 28 |
| F-16 | 1-11-71 | 5.4 | - | - | 0.1 | 36 |
| F-17 | 1-25-71 | 5.3 | 2 | - | 0.3 | 40 |
| F-18 | 2-9-71 | 5.3 | - | - | 0.35 | 24 |
| F-19 | 2-21-71 | 5.4 | - | - | 0.45 | 20 |
| F-20 | 3-9-71 | 5.5 | - | 2 | 0.3 | 28 |
| F-21 | 3-20-71 | 5.2 | 10 | - | 0.55 | 40 |
| F-22 | 4-5-71 | 5.4 | 2 | - | 0.2 | 22 |
| F-23 | 4-17-71 | 5.4 | - | 4 | 0.1 | 100 |
| F-24 | 4-28-71 | 5.5 | - | - | 0.6 | 24 |
| F-25 | 5-15-71 | 5.3 | - | 4 | 0.1 | 32 |
| F-26 | 5-29-71 | 5.6 | 2 | - | 0.1 | 40 |
| F-27 | 6-11-71 | 5.6 | - | 4 | 0.3 | 40 |
| F-28 | 6-25-71 | 6.0 | - | 2 | 0.45 | 28 |
| F-29 | 7-9-71 | 5.3 | - | - | 0.1 | 44 |
| Total(s) | | 158.6 | 28.0 | 24.0 | 8.80 | 880.0 |
| Averages | | (5.47) | (0.97) | (0.83) | (0.303) | (30.34) |
| G-1 | 7-2-70 | 5.0 | 4 | - | 0.1 | 12 |
| G-2 | 7-9-70 | 5.0 | - | - | 0.1 | 12 |
| G-3 | 7-17-70 | 5.2 | 2 | - | 0.1 | 16 |
| G-4 | 7-24-70 | 4.9 | 2 | - | 0.1 | 10 |
| G-5 | 7-31-70 | 5.0 | - | 2 | 0.1 | 16 |
| G-6 | 8-10-70 | 5.4 | - | 4 | 0.3 | 16 |
| G-7 | 8-15-70 | 5.4 | - | 8 | 0.15 | 12 |
| G-8 | 8-22-70 | 5.5 | - | - | 0.1 | 44 |
| G-9 | 9-4-70 | 5.5 | - | - | 0.1 | 20 |
| G-10 | 9-18-70 | 5.7 | - | 4 | 0.25 | 36 |
| G-11 | 10-8-70 | 5.6 | - | - | 0.1 | 34 |
| G-12 | 11-9-70 | 4.2 | 6 | - | 0.2 | 12 |
| G-13 | 11-30-70 | 4.9 | 2 | - | 0.5 | 10 |
| G-14 | 12-14-70 | 5.0 | - | 4 | 0.2 | 38 |
| G-15 | 12-28-70 | 4.8 | 2 | - | 0.35 | 38 |
| G-16 | 1-11-71 | 4.7 | - | - | 0.3 | 22 |
| G-17 | 1-25-71 | 5.1 | 4 | - | 0.1 | 38 |
| G-18 | 2-9-71 | 5.2 | - | - | 0.1 | 28 |
| G-19 | 2-21-71 | 5.0 | 4 | - | 0.6 | 16 |
| G-20 | 3-9-71 | 4.9 | 8 | - | 0.25 | 44 |
| G-21 | 3-20-71 | 4.9 | 14 | - | 0.5 | 36 |
| G-22 | 4-5-71 | 4.9 | 10 | - | 0.15 | 42 |
| G-23 | 4-17-71 | 5.6 | - | - | 0.1 | 110 |
| G-24 | 4-28-71 | 5.2 | - | 4 | 0.1 | 32 |
| G-25 | 5-15-71 | 4.7 | 4 | - | 0.1 | 40 |
| G-26 | 5-29-71 | 4.9 | 10 | - | 0.1 | 48 |

Station No. G-H-I

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|---------|--------|---------|------------|-------------|---------|
| G-27 | 6-11-71 | 5.3 | - | - | 0.2 | 40 |
| G-28 | 6-25-71 | 5.5 | - | 2 | 0.4 | 24 |
| G-29 | 7-9-71 | 5.2 | - | - | 0.1 | 48 |
| Total(s) | | 148.2 | 72.0 | 28.0 | 5.85 | 894.0 |
| Averages | | (5.11) | (2.48) | (0.97) | (0.202) | (30.83) |

| | | | | | | |
|----------|----------|--------|--------|--------|---------|---------|
| H-1 | 7-2-70 | 4.8 | - | - | 0.1 | 16 |
| H-2 | 7-9-70 | 4.8 | - | - | 0.1 | 12 |
| H-3 | 7-17-70 | 4.9 | - | - | 0.1 | 16 |
| H-4 | 7-24-70 | 4.8 | 2 | - | 0.1 | 10 |
| H-5 | 7-31-70 | 4.9 | 2 | - | 0.1 | 16 |
| H-6 | 8-10-70 | 5.5 | - | - | 0.2 | 16 |
| H-7 | 8-15-70 | 5.2 | - | - | 0.65 | 16 |
| H-8 | 8-22-70 | 5.3 | - | 2 | 0.1 | 20 |
| H-9 | 9-4-70 | 5.2 | - | 4 | 0.1 | 34 |
| H-10 | 9-18-70 | 5.3 | - | 4 | 0.45 | 48 |
| H-11 | 10-8-70 | 5.2 | - | - | 0.55 | 34 |
| H-12 | 11-9-70 | 4.1 | 6 | - | 0.8 | 12 |
| H-13 | 11-30-70 | 4.8 | - | - | 0.2 | 24 |
| H-14 | 12-14-70 | 4.9 | - | - | 0.2 | 36 |
| H-15 | 12-28-70 | 4.6 | - | 4 | 0.45 | 38 |
| H-16 | 1-11-71 | 4.7 | 2 | - | 0.25 | 22 |
| H-17 | 1-25-71 | 4.9 | - | - | 0.1 | 16 |
| H-18 | 2-9-71 | 5.2 | - | - | 0.55 | 32 |
| H-19 | 2-21-71 | 4.9 | - | 4 | 0.25 | 22 |
| H-20 | 3-9-71 | 4.8 | - | 4 | 0.1 | 32 |
| H-21 | 3-20-71 | 4.8 | - | - | 0.3 | 22 |
| H-22 | 4-5-71 | 4.8 | 8 | - | 0.3 | 38 |
| H-23 | 4-17-71 | 5.3 | 2 | - | 0.6 | 105 |
| H-24 | 4-28-71 | 4.8 | 2 | - | 0.1 | 28 |
| H-25 | 5-15-71 | 5.0 | 4 | - | 0.1 | 24 |
| H-26 | 5-29-71 | 4.8 | 2 | - | 0.1 | 32 |
| H-27 | 6-11-71 | 5.0 | - | - | 0.2 | 40 |
| H-28 | 6-25-71 | 5.3 | - | 2 | 0.3 | 32 |
| H-29 | 7-9-71 | 4.9 | - | - | 0.1 | 24 |
| Total(s) | | 143.5 | 30.0 | 24.0 | 7.55 | 817.0 |
| Averages | | (4.95) | (1.03) | (0.83) | (0.260) | (28.17) |

| | | | | | | |
|------|----------|-----|----|---|------|-----|
| I-1 | 7-2-70 | 5.7 | - | - | 0.1 | 48 |
| I-2 | 7-9-70 | 4.7 | 10 | - | 0.1 | 72 |
| I-3 | 7-17-70 | 4.5 | 14 | - | 0.1 | 96 |
| I-4 | 7-24-70 | 4.5 | 14 | - | 0.1 | 96 |
| I-5 | 7-31-70 | 4.4 | 6 | - | 3.0 | 220 |
| I-6 | 8-10-70 | 4.3 | 26 | - | 0.1 | 160 |
| I-7 | 8-15-70 | 4.3 | 26 | - | 0.15 | 215 |
| I-8 | 8-22-70 | 4.4 | 22 | - | 0.1 | 215 |
| I-9 | 9-4-70 | 4.3 | 30 | - | 0.9 | 210 |
| I-10 | 9-18-70 | 4.2 | 48 | - | 0.55 | 325 |
| I-11 | 10-8-70 | 4.3 | 54 | - | 0.1 | 330 |
| I-12 | 10-23-70 | 4.2 | 18 | - | 0.4 | 130 |
| I-13 | 11-9-70 | 4.0 | 8 | - | 0.1 | 40 |
| I-14 | 11-30-70 | 4.6 | 8 | - | 0.25 | 28 |
| I-15 | 12-14-70 | 4.6 | 6 | - | 0.2 | 28 |

Station No. I-J

| Sample No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|------------|----------|--------|---------|------------|-------------|----------|
| I-16 | 12-28-70 | 4.4 | 6 | - | 0.1 | 42 |
| I-17 | 1-11-71 | 4.4 | 16 | - | 0.25 | 38 |
| I-18 | 1-25-71 | 4.4 | 18 | - | 0.1 | 70 |
| I-19 | 2-9-71 | 4.3 | 22 | - | 0.4 | 32 |
| I-20 | 2-21-71 | 4.7 | 2 | - | 0.3 | 32 |
| I-21 | 3-9-71 | 4.6 | - | - | 0.1 | 38 |
| I-22 | 3-20-71 | 4.6 | 4 | - | 0.35 | 24 |
| I-23 | 4-5-71 | 4.8 | 10 | - | 0.2 | 42 |
| I-24 | 4-17-71 | 4.4 | 6 | - | 0.6 | 110 |
| I-25 | 4-28-71 | 4.5 | 8 | - | 0.1 | 52 |
| I-26 | 5-15-71 | 4.7 | 6 | - | 0.1 | 24 |
| I-27 | 5-29-71 | 4.8 | 16 | - | 0.1 | 80 |
| I-28 | 6-11-71 | 4.2 | 20 | - | 0.1 | 95 |
| I-29 | 6-25-71 | 4.4 | 24 | - | 0.4 | 110 |
| I-30 | 7-9-71 | 4.3 | 20 | - | 0.1 | 110 |
| Total(s) | | 134.5 | 468.0 | - | 9.55 | 3112.0 |
| Averages | | (4.48) | (15.6) | () | (0.318) | (103.73) |
| J-1 | 7-2-70 | 5.8 | 2 | - | 0.1 | 44 |
| J-2 | 7-9-70 | 5.7 | - | - | 0.1 | 20 |
| J-3 | 7-17-70 | 5.6 | - | 6 | 0.1 | 20 |
| J-4 | 7-24-70 | 5.6 | - | - | 0.1 | 20 |
| J-5 | 7-31-70 | 5.6 | - | - | 0.1 | 34 |
| J-6 | 8-10-70 | 6.0 | - | 4 | 0.65 | 34 |
| J-7 | 8-15-70 | 6.2 | - | 8 | 0.25 | 36 |
| J-8 | 8-22-70 | 5.9 | - | 8 | 0.1 | 48 |
| J-9 | 9-4-70 | 6.0 | - | 6 | 8.25 | 130 |
| J-10 | 9-18-70 | 6.3 | - | 4 | 0.1 | 48 |
| J-11 | 10-8-70 | 6.1 | - | 2 | 0.35 | 48 |
| J-12 | 11-9-70 | 5.0 | - | - | 0.4 | 16 |
| J-13 | 11-30-70 | 5.4 | - | - | 0.25 | 20 |
| J-14 | 12-14-70 | 5.4 | - | - | 0.1 | 24 |
| J-15 | 12-28-70 | 5.2 | 2 | - | 0.3 | 32 |
| J-16 | 1-11-71 | 5.4 | - | - | 0.1 | 32 |
| J-17 | 1-25-71 | 5.5 | 2 | - | 0.1 | 40 |
| J-18 | 2-9-71 | 5.3 | - | 10 | 0.6 | 38 |
| J-19 | 2-21-71 | 5.3 | - | 2 | 0.45 | 16 |
| J-20 | 3-9-71 | 5.2 | - | - | 0.1 | 24 |
| J-21 | 3-20-71 | 5.1 | - | - | 0.6 | 38 |
| J-22 | 4-5-71 | 5.2 | 12 | - | 0.3 | 48 |
| J-23 | 4-17-71 | 5.2 | 4 | - | 0.45 | 105 |
| J-24 | 4-28-71 | 5.5 | - | - | 0.1 | 38 |
| J-25 | 5-15-71 | 5.3 | 2 | - | 0.1 | 32 |
| J-26 | 5-29-71 | 4.1 | 18 | - | 0.1 | 80 |
| J-27 | 6-11-71 | 5.8 | - | 8 | 0.2 | 24 |
| J-28 | 6-25-71 | 6.1 | - | 4 | 0.35 | 40 |
| J-29 | 7-9-71 | 6.1 | - | 6 | 0.1 | 38 |
| Total(s) | | 160.9 | 42.0 | 68.0 | 14.90 | 1167.0 |
| Averages | | (5.55) | (1.45) | (2.35) | (0.514) | (40.24) |

Station No. K

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| K-1 | 7-2-70 | 6.0 | - | - | 0.1 | 48 |
| K-2 | 7-9-70 | 5.9 | - | 6 | 0.8 | 26 |
| K-3 | 7-17-70 | 5.9 | 2 | - | 0.1 | 16 |
| K-4 | 7-24-70 | 5.8 | 6 | - | 0.1 | 10 |
| K-5 | 7-31-70 | 6.0 | - | 6 | 3.5 | 330 |
| K-6 | 8-10-70 | 6.2 | - | - | 0.5 | 28 |
| K-7 | 8-15-70 | 6.2 | - | 8 | 0.2 | 28 |
| K-8 | 8-22-70 | 6.3 | - | 4 | 0.15 | 34 |
| K-9 | 9-4-70 | 6.3 | - | 8 | 1.15 | 44 |
| K-10 | 9-18-70 | 6.4 | - | 6 | 0.4 | 48 |
| K-11 | 10-8-70 | 6.3 | - | - | 0.25 | 68 |
| K-12 | 11-9-70 | 5.2 | - | - | 0.25 | 10 |
| K-13 | 11-30-70 | 5.6 | 6 | - | 0.2 | 32 |
| K-14 | 12-14-70 | 5.7 | 4 | - | 0.1 | 16 |
| K-15 | 12-28-70 | 5.4 | - | - | 0.55 | 32 |
| K-16 | 1-11-71 | 5.6 | - | - | 0.1 | 28 |
| K-17 | 1-25-71 | 5.7 | - | 2 | 0.1 | 38 |
| K-18 | 2-9-71 | 5.7 | - | 4 | 0.45 | 40 |
| K-19 | 2-21-71 | 5.5 | - | - | 0.4 | 20 |
| K-20 | 3-9-71 | 5.5 | - | - | 0.1 | 32 |
| K-21 | 3-20-71 | 5.3 | - | - | 0.4 | 36 |
| K-22 | 4-5-71 | 5.5 | 8 | - | 0.1 | 48 |
| K-23 | 4-17-71 | 5.3 | 4 | - | 0.45 | 105 |
| K-24 | 4-28-71 | 5.7 | 2 | - | 0.8 | 40 |
| K-25 | 5-15-71 | 5.6 | - | - | 0.1 | 38 |
| K-26 | 6-25-71 | 6.5 | - | 2 | 0.55 | 22 |
| K-27 | 7-9-71 | 6.3 | - | 6 | 0.6 | 40 |
| Total(s) | | 157.4 | 32.0 | 52.0 | 12.50 | 1257.0 |
| Averages | | (5.83) | (1.19) | (1.93) | (0.463) | (46.55) |

Note: All data (except pH) expressed in parts per million.

Table 1-B: Otter Run Water Analyses*

Station No. 1-2

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| 1-1 | 7-2-70 | 6.0 | - | - | 0.1 | 42 |
| 1-2 | 7-9-70 | 5.5 | - | - | 0.7 | 58 |
| 1-3 | 7-17-70 | 5.7 | - | - | 0.1 | 48 |
| 1-4 | 7-24-70 | 5.6 | - | 2 | 0.1 | 64 |
| 1-5 | 7-31-70 | 5.1 | - | - | 0.45 | 56 |
| 1-6 | 8-10-70 | 6.2 | - | - | 0.35 | 60 |
| 1-7 | 8-15-70 | 5.7 | - | - | 0.1 | 58 |
| 1-8 | 8-22-70 | 6.3 | - | 6 | 0.1 | 84 |
| 1-9 | 9-4-70 | 6.4 | - | 6 | 0.85 | 110 |
| 1-10 | 9-21-70 | 6.0 | 4 | - | 0.85 | 80 |
| 1-11 | 10-8-70 | 6.5 | - | 4 | 0.1 | 68 |
| 1-12 | 10-23-70 | 5.2 | 8 | - | 1.0 | 42 |
| 1-13 | 11-11-70 | 5.0 | 4 | - | 0.4 | 20 |
| 1-14 | 11-30-70 | 4.9 | 2 | - | 0.75 | 28 |
| 1-15 | 12-14-70 | 4.7 | 6 | - | 0.35 | 28 |
| 1-16 | 12-28-70 | 4.8 | 8 | - | 0.48 | 36 |
| 1-17 | 1-11-71 | 5.0 | 2 | - | 0.1 | 24 |
| 1-18 | 1-25-71 | 5.3 | 2 | - | 0.1 | 42 |
| 1-19 | 2-15-71 | 5.5 | 16 | - | 0.55 | 22 |
| 1-20 | 3-1-71 | 5.0 | 6 | - | 0.55 | 24 |
| 1-21 | 3-17-71 | 5.0 | 8 | - | 0.45 | 42 |
| 1-22 | 3-29-71 | 4.9 | 6 | - | 0.45 | 42 |
| 1-23 | 4-12-71 | 5.4 | 8 | - | 0.1 | 32 |
| 1-24 | 4-24-71 | 5.4 | 2 | - | 0.1 | 42 |
| 1-25 | 5-8-71 | 5.3 | 2 | - | 0.45 | 32 |
| 1-26 | 5-22-71 | 6.2 | - | - | 0.77 | 48 |
| 1-27 | 6-4-71 | 6.0 | - | - | 0.30 | 32 |
| 1-28 | 6-18-71 | 6.4 | - | 20 | 0.1 | 38 |
| 1-29 | 7-2-71 | 6.0 | - | 2 | 0.55 | 24 |
| Total(s) | | 161.0 | 84.0 | 40.0 | 11.35 | 1326.0 |
| Averages | | (5.55) | (2.89) | (1.38) | (0.391) | (45.72) |
| 2-1 | 7-2-70 | 3.9 | 30 | - | 0.1 | 210 |
| 2-2 | 7-9-70 | 5.4 | 8 | - | 0.6 | 52 |
| 2-3 | 7-17-70 | 5.9 | - | - | 0.1 | 48 |
| 2-4 | 7-24-70 | 5.4 | 6 | - | 0.1 | 60 |
| 2-5 | 7-31-70 | 5.0 | 8 | - | 0.2 | 86 |
| 2-6 | 8-10-70 | 6.1 | - | 4 | 0.1 | 80 |
| 2-7 | 8-15-70 | 6.0 | - | - | 0.1 | 64 |
| 2-8 | 8-22-70 | 6.3 | - | - | 0.1 | 92 |
| 2-9 | 9-4-70 | 6.4 | - | 4 | 0.2 | 110 |
| 2-10 | 9-21-70 | 6.3 | 6 | - | 0.4 | 86 |
| 2-11 | 10-8-70 | 6.5 | - | 2 | 0.1 | 120 |
| 2-12 | 11-11-70 | 5.1 | - | - | 0.5 | 22 |
| 2-13 | 11-30-70 | 4.8 | 12 | - | 0.35 | 40 |
| 2-14 | 12-14-70 | 4.8 | 10 | - | 0.15 | 24 |
| 2-15 | 12-28-70 | 4.8 | 6 | - | 0.3 | 38 |
| 2-16 | 1-11-71 | 4.9 | - | - | 0.1 | 24 |
| 2-17 | 1-25-71 | 5.1 | - | - | 0.1 | 40 |
| 2-18 | 2-9-71 | 5.6 | 6 | - | 0.35 | 24 |
| 2-19 | 3-1-71 | 5.0 | - | - | 0.35 | 28 |
| 2-20 | 3-17-71 | 5.1 | - | - | 0.55 | 24 |

Station No. 2-3-4

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|---------|--------|---------|------------|-------------|---------|
| 2-21 | 3-30-71 | 5.0 | 8 | - | 0.55 | 40 |
| 2-22 | 4-12-71 | 5.5 | - | - | 0.35 | 24 |
| 2-23 | 4-24-71 | 5.5 | 2 | - | 0.35 | 40 |
| 2-24 | 5-8-71 | 5.1 | - | - | 0.3 | 24 |
| 2-25 | 5-22-71 | 6.3 | - | - | 0.45 | 24 |
| 2-26 | 6-4-71 | 5.9 | - | 4 | 0.55 | 38 |
| 2-27 | 6-18-71 | 6.2 | - | 20 | 0.1 | 38 |
| 2-28 | 7-2-71 | 5.9 | - | 10 | 0.8 | 38 |
| Total(s) | | 152.8 | 102.0 | 44.0 | 8.30 | 1538.0 |
| Averages | | (5.46) | (3.64) | (1.57) | (0.296) | (54.93) |

| | | | | | | |
|----------|----------|--------|--------|--------|---------|---------|
| 3-1 | 7-2-70 | 5.7 | - | - | 0.4 | 58 |
| 3-2 | 7-9-70 | 5.5 | - | - | 0.6 | 44 |
| 3-3 | 7-17-70 | 6.1 | - | - | 0.1 | 48 |
| 3-4 | 7-24-70 | 4.9 | - | 2 | 0.1 | 64 |
| 3-5 | 7-31-70 | 5.5 | - | - | 0.1 | 76 |
| 3-6 | 8-10-70 | 6.1 | - | 2 | 0.1 | 76 |
| 3-7 | 8-15-70 | 6.0 | - | - | 0.1 | 60 |
| 3-8 | 8-22-70 | 6.3 | - | 4 | 0.1 | 80 |
| 3-9 | 9-4-70 | 6.5 | - | 4 | 0.35 | 42 |
| 3-10 | 9-21-70 | 6.3 | - | 6 | 0.45 | 86 |
| 3-11 | 10-8-70 | 6.4 | - | 2 | 0.1 | 105 |
| 3-12 | 11-11-70 | 5.1 | - | - | 0.7 | 24 |
| 3-13 | 11-30-70 | 4.8 | 14 | - | 0.4 | 38 |
| 3-14 | 12-14-70 | 4.8 | - | - | 0.1 | 32 |
| 3-15 | 12-28-70 | 4.7 | - | - | 1.52 | 24 |
| 3-16 | 1-11-71 | 4.9 | 2 | - | 0.1 | 22 |
| 3-17 | 1-25-71 | 5.0 | 6 | - | 0.5 | 40 |
| 3-18 | 2-9-71 | 5.6 | - | - | 0.45 | 28 |
| 3-19 | 3-1-71 | 5.0 | - | - | 0.5 | 22 |
| 3-20 | 3-17-71 | 5.0 | - | - | 0.35 | 22 |
| 3-21 | 3-29-71 | 5.0 | 8 | - | 0.77 | 38 |
| 3-22 | 4-12-71 | 5.5 | 2 | - | 0.45 | 22 |
| 3-23 | 4-24-71 | 5.9 | - | - | 0.45 | 32 |
| 3-24 | 5-8-71 | 5.2 | - | - | 0.1 | 28 |
| 3-25 | 5-22-71 | 6.2 | - | - | 0.8 | 32 |
| 3-26 | 6-4-71 | 5.8 | - | - | 0.6 | 24 |
| 3-27 | 6-18-71 | 6.5 | - | 18 | 0.1 | 24 |
| 3-28 | 7-2-71 | 6.0 | - | 6 | 0.85 | 28 |
| Total(s) | | 156.3 | 32.0 | 44.0 | 11.24 | 1219.0 |
| Averages | | (5.58) | (1.14) | (1.57) | (0.401) | (43.53) |

| | | | | | | |
|------|---------|-----|---|---|------|-----|
| 4-1 | 7-2-70 | 5.9 | - | - | 0.1 | 16 |
| 4-2 | 7-9-70 | 5.5 | 4 | - | 0.1 | 48 |
| 4-3 | 7-17-70 | 6.1 | 4 | - | 0.1 | 56 |
| 4-4 | 7-24-70 | 5.1 | 8 | - | 0.35 | 72 |
| 4-5 | 7-31-70 | 5.6 | - | - | 0.1 | 72 |
| 4-6 | 8-10-70 | 5.9 | - | - | 0.1 | 92 |
| 4-7 | 8-15-70 | 6.2 | 4 | - | 0.1 | 76 |
| 4-8 | 8-22-70 | 5.9 | 2 | - | 0.2 | 92 |
| 4-9 | 9-4-70 | 6.3 | - | - | 0.55 | 140 |
| 4-10 | 9-21-70 | 6.3 | - | 4 | 0.25 | 104 |
| 4-11 | 10-8-70 | 6.4 | - | - | 0.35 | 130 |

Station No. 4-5-6

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| 4-12 | 11-11-70 | 5.0 | 4 | - | 0.4 | 28 |
| 4-13 | 11-30-70 | 4.7 | 14 | - | 0.7 | 40 |
| 4-14 | 12-14-70 | 4.8 | 6 | - | 0.6 | 24 |
| 4-15 | 12-28-70 | 4.7 | 2 | - | 0.6 | 20 |
| 4-16 | 1-11-71 | 4.9 | 12 | - | 0.2 | 36 |
| 4-17 | 1-25-71 | 4.9 | 2 | - | 0.1 | 38 |
| 4-18 | 2-9-71 | 5.6 | - | 4 | 0.3 | 28 |
| 4-19 | 3-1-71 | 4.9 | - | - | 0.5 | 32 |
| 4-20 | 3-17-71 | 4.9 | 4 | - | 0.1 | 38 |
| 4-21 | 3-29-71 | 4.9 | 14 | - | 0.35 | 44 |
| 4-22 | 4-12-71 | 5.2 | - | - | 0.55 | 38 |
| 4-23 | 4-24-71 | 5.8 | - | 2 | 0.55 | 24 |
| 4-24 | 5-8-71 | 5.2 | - | 2 | 0.35 | 24 |
| 4-25 | 5-22-71 | 6.1 | - | - | 0.3 | 22 |
| 4-26 | 6-4-71 | 6.0 | - | - | 0.9 | 22 |
| 4-27 | 6-18-71 | 6.4 | - | 18 | 0.1 | 38 |
| 4-28 | 7-2-71 | 6.0 | - | 6 | 0.3 | 36 |
| Total(s) | | 155.2 | 80.0 | 36.0 | 9.2 | 1430.0 |
| Averages | | (5.54) | (2.86) | (1.29) | (0.328) | (51.07) |
| 5-1 | 7-2-70 | 5.7 | - | - | 0.1 | 64 |
| 5-2 | 7-9-70 | 5.0 | 6 | - | 0.1 | 56 |
| 5-3 | 7-17-70 | 5.2 | - | - | 0.1 | 76 |
| 5-4 | 7-24-70 | 4.7 | 2 | - | 0.1 | 74 |
| 5-5 | 7-31-70 | 4.8 | 2 | - | 3.4 | 86 |
| 5-6 | 8-10-70 | 5.2 | 4 | - | 0.15 | 98 |
| 5-7 | 8-15-70 | 5.3 | - | 4 | 0.25 | 86 |
| 5-8 | 8-22-70 | 5.1 | 4 | - | 0.1 | 108 |
| 5-9 | 9-4-70 | 5.2 | 10 | - | 0.1 | 160 |
| 5-10 | 9-21-70 | 6.3 | - | - | 0.1 | 100 |
| 5-11 | 10-8-70 | 6.2 | - | - | 0.25 | 140 |
| 5-12 | 11-11-70 | 4.8 | 8 | - | 0.8 | 32 |
| 5-13 | 11-30-70 | 4.7 | 24 | - | 0.9 | 90 |
| 5-14 | 12-14-70 | 4.6 | 8 | - | 0.3 | 38 |
| 5-15 | 12-28-70 | 4.6 | 10 | - | 0.4 | 40 |
| 5-16 | 1-11-71 | 4.7 | 6 | - | 0.2 | 36 |
| 5-17 | 1-25-71 | 4.7 | 4 | - | 0.4 | 48 |
| 5-18 | 2-9-71 | 5.4 | - | 2 | 0.4 | 36 |
| 5-19 | 3-1-71 | 4.8 | - | - | 0.5 | 28 |
| 5-20 | 3-17-71 | 4.7 | 8 | - | 0.1 | 32 |
| 5-21 | 3-29-71 | 4.8 | 10 | - | 0.45 | 60 |
| 5-22 | 4-12-71 | 5.3 | 2 | - | 0.1 | 32 |
| 5-23 | 4-24-71 | 5.2 | - | 4 | 0.3 | 48 |
| 5-24 | 5-8-71 | 5.0 | - | 2 | 0.55 | 28 |
| 5-25 | 5-22-71 | 5.5 | - | - | 0.1 | 38 |
| 5-26 | 6-4-71 | 6.0 | - | 4 | 0.35 | 32 |
| 5-27 | 6-18-71 | 6.3 | - | 18 | 0.1 | 44 |
| 5-28 | 7-2-71 | 5.9 | - | 10 | 0.35 | 38 |
| Total(s) | | 146.7 | 108.0 | 44.0 | 7.99 | 1748.0 |
| Averages | | (5.24) | (3.86) | (1.57) | (0.285) | (62.43) |
| 6-1 | 7-2-70 | 4.4 | 20 | - | 1.3 | 48 |
| 6-2 | 7-9-70 | 4.7 | 24 | - | 0.5 | 114 |
| 6-3 | 7-17-70 | 4.8 | 4 | - | 0.1 | 88 |
| 6-4 | 7-24-70 | 4.3 | 14 | - | 0.45 | 160 |

Station No. 6-7

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| 6-5 | 7-31-70 | 4.4 | 20 | - | 0.1 | 220 |
| 6-6 | 8-10-70 | 4.4 | 18 | - | 0.2 | 150 |
| 6-7 | 8-15-70 | 4.8 | 10 | - | 0.7 | 104 |
| 6-8 | 8-22-70 | 4.8 | 14 | - | 0.1 | 128 |
| 6-9 | 9-4-70 | 4.7 | 16 | - | 0.1 | 180 |
| 6-10 | 9-21-70 | 5.4 | 8 | - | 0.1 | 128 |
| 6-11 | 10-8-70 | 6.0 | 8 | - | 0.1 | 180 |
| 6-12 | 11-11-70 | 4.9 | 14 | - | 0.1 | 52 |
| 6-13 | 11-30-70 | 4.5 | 44 | - | 0.55 | 130 |
| 6-14 | 12-14-70 | 4.3 | 20 | - | 0.8 | 60 |
| 6-15 | 12-28-70 | 4.2 | 32 | - | 0.45 | 120 |
| 6-16 | 1-11-71 | 4.4 | 20 | - | 0.4 | 42 |
| 6-17 | 1-25-71 | 4.6 | 16 | - | 0.4 | 90 |
| 6-18 | 2-9-71 | 5.1 | - | 2 | 0.4 | 40 |
| 6-19 | 3-1-71 | 4.6 | 2 | - | 0.95 | 16 |
| 6-20 | 3-17-71 | 4.2 | 12 | - | 0.3 | 48 |
| 6-21 | 3-29-71 | 4.6 | 26 | - | 0.55 | 90 |
| 6-22 | 4-12-71 | 4.8 | 6 | - | 0.3 | 42 |
| 6-23 | 4-24-71 | 4.8 | 10 | - | 0.25 | 80 |
| 6-24 | 5-8-71 | 4.8 | - | - | 0.4 | 22 |
| 6-25 | 5-22-71 | 4.9 | 2 | - | 0.1 | 22 |
| 6-26 | 6-4-71 | 5.7 | - | - | 0.1 | 40 |
| 6-27 | 6-18-71 | 5.9 | - | 20 | 2.4 | 70 |
| 6-28 | 7-2-71 | 5.5 | - | 6 | 0.45 | 44 |
| Total(s) | | 134.5 | 360.0 | 28.0 | 12.65 | 2508.0 |
| Averages | | (4.80) | (12.86) | (1.00) | (0.452) | (89.57) |
| 7-1 | 7-2-70 | 5.3 | - | 16 | 0.6 | 16 |
| 7-2 | 7-9-70 | 5.5 | - | 4 | 0.1 | 20 |
| 7-3 | 7-17-70 | 5.6 | - | - | 0.1 | 34 |
| 7-4 | 7-24-70 | 5.4 | 6 | - | 0.15 | 20 |
| 7-5 | 7-31-70 | 5.4 | - | 6 | 0.77 | 44 |
| 7-6 | 8-10-70 | 5.7 | 2 | - | 0.1 | 28 |
| 7-7 | 8-15-70 | 5.8 | - | 8 | 0.83 | 20 |
| 7-8 | 8-22-70 | 5.8 | - | 6 | 0.1 | 20 |
| 7-9 | 9-4-70 | 6.1 | - | 4 | 0.1 | 34 |
| 7-10 | 9-21-70 | 6.1 | - | 4 | 0.55 | 34 |
| 7-11 | 10-8-70 | 6.2 | - | 6 | 0.1 | 44 |
| 7-12 | 11-11-70 | 5.2 | - | - | 0.1 | 8 |
| 7-13 | 11-30-70 | 3.2 | 18 | - | 0.25 | 40 |
| 7-14 | 12-14-70 | 5.1 | 6 | - | 0.1 | 24 |
| 7-15 | 12-28-70 | 5.3 | 6 | - | 0.25 | 44 |
| 7-16 | 1-11-71 | 5.5 | - | - | 0.1 | 32 |
| 7-17 | 1-25-71 | 5.6 | - | 2 | 0.1 | 90 |
| 7-18 | 2-9-71 | 5.5 | - | - | 0.1 | 24 |
| 7-19 | 3-1-71 | 4.9 | 8 | - | 1.4 | 38 |
| 7-20 | 3-17-71 | 5.0 | 4 | - | 0.45 | 24 |
| 7-21 | 3-29-71 | 5.0 | 8 | - | 0.35 | 42 |
| 7-22 | 4-12-71 | 5.5 | 6 | - | 0.4 | 24 |
| 7-23 | 4-24-71 | 5.3 | - | - | 0.1 | 38 |
| 7-24 | 5-8-71 | 5.3 | - | 4 | 0.3 | 22 |
| 7-25 | 5-22-71 | 5.3 | 10 | - | 0.45 | 44 |
| 7-26 | 6-4-71 | 5.6 | - | 2 | 0.45 | 24 |
| 7-27 | 6-18-71 | 6.0 | - | 16 | 0.1 | 24 |
| 7-28 | 7-2-71 | 5.7 | - | 6 | 0.4 | 28 |
| Total(s) | | 151.9 | 74.0 | 84.0 | 8.90 | 884.0 |
| Averages | | (5.43) | (2.64) | (3.00) | (0.318) | (31.57) |

Station No. 8-9

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|---------|
| 8-1 | 7-2-70 | 4.4 | 6 | - | 0.1 | 44 |
| 8-2 | 7-9-70 | 4.9 | 4 | - | 0.1 | 52 |
| 8-3 | 7-17-70 | 4.7 | - | - | 0.1 | 56 |
| 8-4 | 7-24-70 | 4.4 | 4 | - | 0.1 | 58 |
| 8-5 | 7-31-70 | 4.5 | 4 | - | 0.35 | 64 |
| 8-6 | 8-10-70 | 4.7 | 2 | - | 0.1 | 68 |
| 8-7 | 8-15-70 | 5.8 | - | - | 0.1 | 60 |
| 8-8 | 8-22-70 | 5.8 | - | 4 | 0.1 | 68 |
| 8-9 | 9-4-70 | 4.7 | - | - | 0.1 | 60 |
| 8-10 | 9-21-70 | 6.0 | - | - | 0.6 | 148 |
| 8-11 | 10-8-70 | 5.8 | - | 6 | 0.35 | 120 |
| 8-12 | 11-11-70 | 4.7 | 6 | - | 0.1 | 24 |
| 8-13 | 11-30-70 | 4.7 | 2 | - | 0.25 | 38 |
| 8-14 | 12-14-70 | 4.7 | 10 | - | 0.1 | 38 |
| 8-15 | 12-28-70 | 4.6 | 10 | - | 0.35 | 44 |
| 8-16 | 1-11-71 | 4.7 | 10 | - | 0.1 | 24 |
| 8-17 | 1-25-71 | 4.7 | 8 | - | 0.1 | 44 |
| 8-18 | 2-9-71 | 4.9 | 12 | - | 0.6 | 40 |
| 8-19 | 3-1-71 | 4.7 | - | - | 0.5 | 16 |
| 8-20 | 3-17-71 | 4.8 | - | - | 0.6 | 32 |
| 8-21 | 3-29-71 | 4.6 | 14 | - | 0.55 | 80 |
| 8-22 | 4-12-71 | 5.0 | - | - | 0.1 | 36 |
| 8-23 | 4-24-71 | 4.4 | 4 | - | 0.3 | 60 |
| 8-24 | 5-8-71 | 4.8 | - | 4 | 0.25 | 28 |
| 8-25 | 5-22-71 | 4.7 | 2 | - | 0.55 | 45 |
| 8-26 | 6-4-71 | 4.4 | 2 | - | 0.7 | 38 |
| 8-27 | 6-18-71 | 4.8 | - | 16 | 0.3 | 105 |
| 8-28 | 7-2-71 | 4.2 | 6 | - | 0.1 | 20 |
| Total(s) | | 135.1 | 106.0 | 30.0 | 7.65 | 1510.0 |
| Averages | | (4.83) | (3.79) | (1.07) | (0.273) | (53.93) |
| 9-1** | 7-8-70 | 4.0 | 40 | - | 1.1 | 250 |
| 9-2 | 7-13-70 | 4.0 | 64 | - | 1.9 | 250 |
| 9-3 | 7-17-70 | 4.3 | 20 | - | 0.15 | 380 |
| 9-4 | 7-24-70 | 3.6 | 54 | - | 0.65 | 320 |
| 9-5 | 7-31-70 | 4.1 | 44 | - | 0.4 | 240 |
| 9-6 | 8-10-70 | 3.6 | 84 | - | 0.4 | 440 |
| 9-7 | 8-15-70 | 4.0 | 48 | - | 0.3 | 370 |
| 9-8 | 8-22-70 | 3.9 | 66 | - | 0.35 | 360 |
| 9-9 | 9-4-70 | 4.3 | 52 | - | 0.85 | 270 |
| 9-10 | 9-21-70 | 4.2 | 70 | - | 0.40 | 200 |
| 9-11 | 10-8-70 | 4.6 | 60 | - | 0.55 | 360 |
| 9-12 | 10-23-70 | 4.0 | 24 | - | 0.50 | 140 |
| 9-13 | 11-11-70 | 4.4 | 26 | - | 0.40 | 150 |
| 9-14 | 11-30-70 | 4.1 | 194 | - | 1.65 | 280 |
| 9-15 | 12-14-70 | 3.8 | 42 | - | 0.30 | 95 |
| 9-16 | 12-28-70 | 3.9 | 84 | - | 7.70 | 230 |
| 9-17 | 1-11-71 | 3.8 | 50 | - | 1.50 | 110 |
| 9-18 | 1-25-71 | 3.8 | 48 | - | 0.29 | 200 |
| 9-19 | 3-1-71 | 4.3 | 20 | - | 2.30 | 120 |
| 9-20 | 3-17-71 | 4.2 | 26 | - | 0.30 | 80 |
| 9-21 | 3-29-71 | 3.9 | 36 | - | 1.40 | 105 |
| 9-22 | 4-12-71 | 4.4 | 18 | - | 0.1 | 38 |

** This sample shows 12 ppm - manganese; 0.32 ppm - aluminum.

Station No. 9-10

Sample

| No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|----------|----------|--------|---------|------------|-------------|----------|
| 9-23 | 4-24-71 | 4.2 | 18 | - | 0.45 | 110 |
| 9-24 | 5-8-71 | 4.3 | 16 | - | 0.45 | 54 |
| 9-25 | 5-22-71 | 4.4 | 10 | - | 1.52 | 42 |
| 9-26 | 6-4-71 | 4.6 | 4 | - | 0.3 | 70 |
| 9-27 | 6-18-71 | 4.8 | - | - | 0.3 | 140 |
| 9-28 | 7-2-71 | 4.3 | 18 | - | 0.67 | 135 |
| Total(s) | | 115.8 | 1236.0 | - | 27.18 | 5539.0 |
| Averages | | (4.14) | (44.14) | - | (0.971) | (197.82) |
| 10-1 | 7-2-70 | 5.8 | - | - | 0.9 | 20 |
| 10-2 | 7-9-70 | 6.0 | - | - | 0.1 | 20 |
| 10-3 | 7-17-70 | 6.0 | - | - | 0.25 | 16 |
| 10-4 | 7-24-70 | 5.6 | - | - | 0.45 | 12 |
| 10-5 | 7-31-70 | 5.9 | - | - | 0.3 | 20 |
| 10-6 | 8-10-70 | 5.9 | - | 6 | 0.15 | 12 |
| 10-7 | 8-15-70 | 5.8 | - | 6 | 0.15 | 28 |
| 10-8 | 8-22-70 | 5.8 | - | 8 | 0.1 | 16 |
| 10-9 | 9-4-70 | 6.1 | - | 6 | 0.45 | 36 |
| 10-10 | 9-21-70 | 6.5 | - | 10 | 0.9 | 20 |
| 10-11 | 10-8-70 | 6.3 | - | - | 0.45 | 56 |
| 10-12 | 11-11-70 | 6.2 | - | - | 0.6 | 10 |
| 10-13 | 11-30-70 | 5.9 | - | - | 0.6 | 24 |
| 10-14 | 12-14-70 | 5.9 | - | - | 0.6 | 16 |
| 10-15 | 12-29-70 | 5.5 | - | 4 | 0.4 | 24 |
| 10-16 | 1-11-71 | 6.1 | - | - | 0.4 | 20 |
| 10-17 | 1-25-71 | 5.8 | - | 2 | 0.1 | 38 |
| 10-18 | 3-17-71 | 5.7 | 2 | - | 0.25 | 44 |
| 10-19 | 3-29-71 | 6.1 | - | - | 0.35 | 22 |
| 10-20 | 4-12-71 | 6.0 | - | - | 0.55 | 22 |
| 10-21 | 4-24-71 | 6.2 | - | - | 0.6 | 32 |
| 10-22 | 5-8-71 | 6.1 | - | 4 | 0.55 | 24 |
| 10-23 | 5-22-71 | 6.3 | - | 4 | 0.9 | 38 |
| 10-24 | 6-4-71 | 6.1 | - | - | 0.6 | 32 |
| 10-25 | 6-18-71 | 6.8 | 6 | - | 0.1 | 80 |
| 10-26 | 7-2-71 | 6.0 | - | 10 | 0.55 | 22 |
| Total(s) | | 156.4 | 8.0 | 54.0 | 11.35 | 704.0 |
| Averages | | (6.02) | (0.31) | (2.08) | (0.437) | (27.07) |

*Note: All data(except pH) expressed in parts per million.

Table 1-C: Mine Weir Water Analyses*

| Sample No. | Date | pH | Acidity | Alkalinity | Iron(Total) | Sulfate |
|--------------------|----------|--------|-----------|------------|-------------|-----------|
| <u>Thomas Mine</u> | | | | | | |
| TM-1 | 10-23-70 | 2.8 | 1900 | - | 350 | 4900 |
| TM-2 | 12-28-70 | 2.5 | 1500 | - | 325 | 2800 |
| TM-3 | 1-11-71 | 2.7 | 1400 | - | 180 | 3200 |
| TM-4 | 1-25-71 | 2.6 | 1150 | - | 200 | 2700 |
| TM-5 | 2-9-71 | 2.5 | 900 | - | 140 | 2100 |
| TM-6 | 2-21-71 | 2.9 | 1000 | - | 150 | 2200 |
| TM-7 | 3-9-71 | 2.6 | 1750 | - | 250 | 2800 |
| TM-8 | 3-20-71 | 2.7 | 1850 | - | 160 | 3600 |
| TM-9 | 4-5-71 | 2.7 | 1500 | - | 225 | 1850 |
| TM-10 | 4-17-71 | 2.6 | 1400 | - | 200 | 3600 |
| TM-11 | 4-28-71 | 2.6 | 1300 | - | 220 | 2000 |
| TM-12 | 5-15-71 | 2.7 | 1050 | - | 125 | 1900 |
| Total(s) | | 31.9 | 16700.0 | - | 2525.0 | 33650.0 |
| Averages | | (2.66) | (1391.67) | - | (210.42) | (2804.16) |
| <u>Carson Mine</u> | | | | | | |
| CM-1 | 10-23-70 | 3.3 | 120 | - | 4.3 | 750 |
| CM-2 | 12-28-70 | 2.9 | 90 | - | 2.9 | 135 |
| CM-3 | 1-11-71 | 2.9 | 110 | - | 19.0 | 160 |
| CM-4 | 1-25-71 | 3.0 | 130 | - | 8.0 | 180 |
| CM-5 | 2-9-71 | 2.8 | 180 | - | 3.3 | 270 |
| CM-6 | 2-21-71 | 3.0 | 200 | - | 2.3 | 260 |
| CM-7 | 3-9-71 | 3.1 | 100 | - | 0.35 | 350 |
| CM-8 | 3-20-71 | 3.3 | 100 | - | 3.3 | 120 |
| CM-9 | 4-17-71 | 3.2 | 64 | - | 3.75 | 750 |
| CM-10 | 4-28-71 | 3.2 | 100 | - | 3.3 | 270 |
| CM-11 | 5-15-71 | 3.1 | 90 | - | 3.0 | 105 |
| Total(s) | | 33.8 | 1284.0 | - | 53.50 | 3350.0 |
| Averages | | (3.07) | (116.73) | - | (4.86) | (304.55) |
| <u>Fisher Mine</u> | | | | | | |
| FM-1 | 12-29-70 | 3.9 | 66 | - | 0.1 | 440 |
| FM-2 | 1-11-71 | 3.4 | 82 | - | 0.25 | 475 |
| FM-3 | 2-9-71 | 3.1 | 200 | - | 10.0 | 450 |
| FM-4 | 3-9-71 | 3.9 | 72 | - | 0.35 | 400 |
| FM-5 | 3-20-71 | 4.0 | 86 | - | 0.7 | 320 |
| FM-6 | 4-6-71 | 4.0 | 52 | - | 0.3 | 190 |
| FM-7 | 4-17-71 | 3.8 | 96 | - | 0.55 | 520 |
| FM-8 | 4-28-71 | 3.9 | 94 | - | 0.1 | 560 |
| FM-9 | 5-15-71 | 3.8 | 44 | - | 1.1 | 240 |
| Total(s) | | 33.8 | 792.0 | - | 12.45 | 3595.0 |
| Averages | | (3.76) | (88.0) | - | (1.38) | (394.44) |

*Note: All data (except pH) expressed in parts per million.