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**BUREAU OF EASTERN REMEDIAL ACTION  
DIVISION OF HAZARDOUS  
WASTE REMEDIATION**

**REVISED  
REMEDIAL INVESTIGATION  
WORK PLAN FOR THE  
MALTA ROCKET FUEL AREA SITE  
TOWNS OF MALTA AND STILLWATER  
SARATOGA COUNTY, NEW YORK**

**VOLUME II - APPENDICES**

**December 1990**

**Prepared by**

**Geraghty & Miller, Inc.  
Environmental Services  
125 East Bethpage Road  
Plainview, New York 11803**

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**APPENDIX A**

**Geologic Logs**



**DUNN GEOSCIENCE, 1977  
PUMPING WELLS PW-1 AND PW-2  
AND TEST HOLES**

# DUNN GEOSCIENCE CORP. BORING LOG

|                 |  |                                        |  |                             |  |
|-----------------|--|----------------------------------------|--|-----------------------------|--|
| <b>MAP PLAN</b> |  | Client <u>WILLIAM H. MACKAY</u>        |  | Job No. <u>SAR 24-65</u>    |  |
|                 |  | Location <u>LEITCH FINEST</u>          |  | Boring No. <u>PW-</u>       |  |
|                 |  | Drilling Co. <u>HALL &amp; COMPANY</u> |  | Sheet <u>1</u> of <u>1</u>  |  |
|                 |  | Driller                                |  | Inspector <u>D.T. CLARK</u> |  |
|                 |  | Hole Elev. <u>214.9</u>                |  | Total Depth <u>31'</u>      |  |
| Scale           |  | Elevation                              |  | Drilling                    |  |
|                 |  | Inclination from Horizontal            |  | Start Time                  |  |
|                 |  | Bearing                                |  | Finish Time                 |  |
|                 |  | Water Level                            |  | Date                        |  |
|                 |  | Time                                   |  | Date                        |  |
|                 |  | Casing Depth                           |  | 5/7-                        |  |

| SAMPLE NUMBER | INCHES DRIVEN RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE IN. | SOIL GRAPH | Surface Conditions      | Purpose of Log                                                                                  |
|---------------|------------------------|---------------------|--------------|-----------------------------|-----------|------------|-------------------------|-------------------------------------------------------------------------------------------------|
|               |                        |                     |              |                             |           |            | DESCRIPTION OF MATERIAL | REMARKS                                                                                         |
|               |                        |                     |              |                             |           |            | Top Soil<br>BROWN SAND  |                                                                                                 |
|               |                        |                     |              |                             |           | 5'         |                         |                                                                                                 |
|               |                        |                     |              |                             |           | 10'        |                         |                                                                                                 |
|               |                        |                     |              |                             |           | 15'        |                         |                                                                                                 |
|               |                        |                     |              |                             |           | 20'        |                         |                                                                                                 |
|               |                        |                     |              |                             |           | 25'        | SAND                    |                                                                                                 |
|               |                        |                     |              |                             |           | 30'        | SAND AND SILTY CLAY     |                                                                                                 |
|               |                        |                     |              |                             |           |            |                         | THE COMPLETED WELL IS A 6 X 12 GRAVEL PACKED WELL USING A F3 LAYNE PACK. 12-INCH CASING REMOVED |
|               |                        |                     |              |                             |           |            |                         | 5' OF 6-INCH STAINLESS SCREEN, SLOT SET FR 25-30' BOTTOM OF HOLE                                |

|                                      |  |                                                                                                                                                                                                                                            |  |                                                                                                                                                |  |                                                                                                                                                          |  |
|--------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DRILLING METHOD<br><u>CABLE TOOL</u> |  | <input type="checkbox"/> Split Spoon<br><input checked="" type="checkbox"/> Auger<br><input checked="" type="checkbox"/> Shovel<br><input checked="" type="checkbox"/> Retractable Plug<br><input checked="" type="checkbox"/> Shelby Tube |  | <b>SAMPLER TYPES</b><br><input checked="" type="checkbox"/> Denison Double Tube<br><input checked="" type="checkbox"/> Double Tube Core Barrel |  | <b>FIELD GRADATION KEY</b><br>% Finer by Weight<br>"TRACE"..... 0% to 10%<br>"LITTLE"..... 10% to 20%<br>"SOME"..... 20% to 35%<br>"AND"..... 35% to 50% |  |
| SAMPLING METHOD                      |  | HAMMER                                                                                                                                                                                                                                     |  | LBS.                                                                                                                                           |  | DROP                                                                                                                                                     |  |
|                                      |  |                                                                                                                                                                                                                                            |  |                                                                                                                                                |  | N.                                                                                                                                                       |  |

| MAP PLAN                            |                        |                     |              |                             |            | Client <u>William S. Hicken</u>                 |                                  |  |  | Jug No. <u>SAR-34-55</u>   |         |  |
|-------------------------------------|------------------------|---------------------|--------------|-----------------------------|------------|-------------------------------------------------|----------------------------------|--|--|----------------------------|---------|--|
| Site Report SITS<br>MAP<br>FIGURE 3 |                        |                     |              |                             |            | Location <u>LUTHER FOREST</u>                   |                                  |  |  | Boring No. <u>TN-1-75</u>  |         |  |
|                                     |                        |                     |              |                             |            | Drilling Co. <u>LAYNE-HARTY INC.</u>            |                                  |  |  | Sheet <u>L</u> of <u>2</u> |         |  |
|                                     |                        |                     |              |                             |            | Inspector <u>D.T. CLARK</u>                     |                                  |  |  | Drilling                   |         |  |
|                                     |                        |                     |              |                             |            | Hole Elev. <u>210.3'</u> Total Depth <u>37'</u> |                                  |  |  | Start Time                 |         |  |
|                                     |                        |                     |              |                             |            | Inclination from Horizontal      Bearing        |                                  |  |  | Time                       |         |  |
|                                     |                        |                     |              |                             |            | Water Level                                     |                                  |  |  | <u>1:00p</u> <u>1:00</u>   |         |  |
|                                     |                        |                     |              |                             |            | Time                                            |                                  |  |  | Date                       |         |  |
|                                     |                        |                     |              |                             |            | Date                                            |                                  |  |  | <u>5/28/75</u> <u>5/28</u> |         |  |
|                                     |                        |                     |              |                             |            | Casing Depth                                    |                                  |  |  |                            |         |  |
| Scale                               |                        | Elevation           |              |                             |            | Surface Conditions                              |                                  |  |  | Purpose of Log             |         |  |
| SAMPLE NUMBER                       | INCHES DRIVEN RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE 1" = | SOIL GRAPH                                      | DESCRIPTION OF MATERIAL          |  |  |                            | REMARKS |  |
|                                     |                        |                     |              |                             |            |                                                 | TOP SOIL                         |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            | 5                                               |                                  |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            | 10                                              |                                  |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            | 15                                              | Fine to med. brown SAND          |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            |                                                 | Fine to med gray SAND            |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            | 20                                              | Very fine to fine gray SAND      |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            | 25                                              |                                  |  |  |                            |         |  |
|                                     |                        |                     |              |                             |            | 30                                              | Coarser material, med. gray SAND |  |  |                            |         |  |

**DRILLING METHOD**  
2 1/2" AIR DRILL RIG

---

**SAMPLING METHOD**

☒ Split Spoon      **SAMPLER TYPES**

☐ Auger

☒ Shovel      ☒ Denison Double Tube

☒ Retractable Plug    ☐ Double Tube Core Barrel

☒ Shelby Tube

**FIELD GRADATION KEY**  
% Finer by Weight

"TRACE"..... 0 % to 10

"LITTLE"..... 10 % to 20

"SOME"..... 20 % to 35

"AND"..... 35 % to 50

HAMMER

LBS.

DROP

N.

| DESCRIPTION OF MATERIAL | REMARKS |
|-------------------------|---------|
|-------------------------|---------|

| DUNN GEOSCIENCE CORP. BORING LOG               |                           |                        |                 |                                   |              |                                                                                                    |
|------------------------------------------------|---------------------------|------------------------|-----------------|-----------------------------------|--------------|----------------------------------------------------------------------------------------------------|
| SAMPLE NUMBER                                  | INCHES DRIVEN<br>RECOVERY | SAMPLE<br>TYPE & DEPTH | CASING &<br>BIT | BLOWS ON<br>SAMPLER<br>FOR INCHES | SCALE<br>" " | SOIL<br>GRAPH                                                                                      |
| BORING NO. TH 175 SHEET 2 OF 2 JOB NO. SAR-046 |                           |                        |                 |                                   |              |                                                                                                    |
| DESCRIPTION OF MATERIAL                        |                           |                        |                 |                                   |              | REMARKS                                                                                            |
|                                                |                           |                        |                 |                                   |              | Med to fine gray SAND                                                                              |
|                                                |                           |                        |                 |                                   | 35           | Med to fine gray SAND with<br>rock (shale) chips, rounded<br>SAME (with clay)<br>Gray / brown clay |
|                                                |                           |                        |                 |                                   | 40           |                                                                                                    |
|                                                |                           |                        |                 |                                   | 45           |                                                                                                    |

|                                                 |  |                                    |                          |                            |
|-------------------------------------------------|--|------------------------------------|--------------------------|----------------------------|
| MAP PLAN<br><br>SEE REPORT SITE MAP<br>FIGURE 3 |  | Client <u>William R. McKay</u>     |                          | Job No. <u>SAR-CH-6</u>    |
|                                                 |  | Location <u>LITTLE FOREST</u>      |                          | Boring No. <u>TH-2</u>     |
|                                                 |  | Drilling Co. <u>LAYNE-NEW YORK</u> |                          | Sheet <u>L</u> of <u>1</u> |
|                                                 |  | Driller                            |                          |                            |
|                                                 |  | Inspector <u>D. T. CLARK</u>       |                          |                            |
|                                                 |  | Hole Elev. <u>513.9'</u>           | Total Depth <u>37.5'</u> | Drilling                   |
|                                                 |  | Inclination from Horizontal        | Bearing                  | Start                      |
|                                                 |  | Water Level                        |                          | Time                       |
|                                                 |  | Time                               |                          | Date                       |
|                                                 |  | Date                               |                          | 5/28/55                    |
| Casing Depth                                    |  | 52                                 |                          |                            |

| Scale         |                        | Elevation           |              | SOIL GRAPH | Surface Conditions                                                                                                            | Purpose of Log |
|---------------|------------------------|---------------------|--------------|------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|
| SAMPLE NUMBER | INCHES DRIVEN RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT |            | DESCRIPTION OF MATERIAL                                                                                                       | REMARKS        |
|               |                        |                     |              | 5          |                                                                                                                               |                |
|               |                        |                     |              | 10         |                                                                                                                               |                |
|               |                        |                     |              | 15         | Brown med. SAND                                                                                                               |                |
|               |                        |                     |              | 20         | Brown med. SAND                                                                                                               |                |
|               |                        |                     |              | 25         | Brown med. SAND                                                                                                               |                |
|               |                        |                     |              | 30         | Very fine sand with silty clay layers<br>Fine to med. brown sand with few "p" gravel<br>Silty clay, some sand, few "p" gravel |                |
|               |                        |                     |              | 35         | Fine to med. to coarse SAND                                                                                                   |                |
|               |                        |                     |              | 40         |                                                                                                                               |                |

|                                                 |  |                                                                                                                                                                                                                                                  |  |                                                                                                                                           |
|-------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|
| DRILLING METHOD<br><u>2 1/2 inch DRIVE PIPE</u> |  | SAMPLER TYPES<br><input type="checkbox"/> Split Spoon<br><input type="checkbox"/> Auger<br><input checked="" type="checkbox"/> Shovel<br><input checked="" type="checkbox"/> Retractable Plug<br><input checked="" type="checkbox"/> Shelby Tube |  | FIELD GRADATION KEY<br>% Finer by Weight<br>"TRACE"..... 0% to 1<br>"LITTLE"..... 10% to 2<br>"SOME"..... 20% to 3<br>"AND"..... 35% to 5 |
| SAMPLING METHOD<br>HAMMER LBS. DROP IN.         |  |                                                                                                                                                                                                                                                  |  |                                                                                                                                           |

| SAMPLE<br>NUMBER        | INCHES DRIVEN<br>RECOVERY | SAMPLE<br>TYPE & DEPTH | CASING &<br>BIT | BLOWS ON<br>SAMPLER<br>FOR INCHES | SCALE<br>1" | SOIL<br>GRAPH | DUNN GEOSCIENCE CORP. BORING LOG                                |                           |
|-------------------------|---------------------------|------------------------|-----------------|-----------------------------------|-------------|---------------|-----------------------------------------------------------------|---------------------------|
|                         |                           |                        |                 |                                   |             |               | BORING NO. <i>TH 275</i> SHEET <i>2</i> OF <i>3</i>             | JOB NO. <i>SAR 04-650</i> |
| DESCRIPTION OF MATERIAL |                           |                        |                 |                                   |             |               | REMARKS                                                         |                           |
|                         |                           |                        |                 |                                   |             |               | <i>Brown clay with sand and gravel</i><br><i>Blue-gray clay</i> |                           |
|                         |                           |                        |                 |                                   |             | <i>35</i>     |                                                                 |                           |
|                         |                           |                        |                 |                                   |             | <i>40</i>     |                                                                 |                           |
|                         |                           |                        |                 |                                   |             | <i>45</i>     |                                                                 |                           |
|                         |                           |                        |                 |                                   |             | <i>50</i>     |                                                                 |                           |

STANDARD PENETRATION TEST

Sampler.....2" O.D. x 1 3/8" I.D.  
 Hammer.....140 lb., 30" fall  
 Soil Designation Blows/Ft.

|               |            |         |
|---------------|------------|---------|
| Sand and Silt | Loose      | 1-10    |
|               | Medium     | 11-30   |
|               | Dense      | 31-50   |
|               | Very Dense | Over 50 |
| Clay          | Very Soft  | Less 2  |
|               | Soft       | 3-5     |
|               | Medium     | 6-15    |
|               | Stiff      | 16-25   |
|               | Hard       | Over 25 |

# DUINN GEOSCIENCE CORP. BORING LOG

|                                                                                   |                                    |                          |                             |
|-----------------------------------------------------------------------------------|------------------------------------|--------------------------|-----------------------------|
| <p>MAP PLAN</p> <p style="font-size: 1.2em;">SEE REPORT SITE MAP<br/>FIGURE 3</p> | Client <u>William R. Mackay</u>    |                          | Job No. <u>5AR 046</u>      |
|                                                                                   | Location <u>Luther Forest</u>      |                          | Boring No. <u>TH 3-7</u>    |
|                                                                                   | Drilling Co. <u>LAYNE-NEW YORK</u> |                          |                             |
|                                                                                   | Driller                            |                          |                             |
|                                                                                   | Inspector <u>D T Clark</u>         |                          | Sheet <u>L</u> of <u>  </u> |
|                                                                                   | Hole Elev. <u>215.8'</u>           | Total Depth <u>32.2'</u> | Drilling                    |
|                                                                                   | Inclination from Horizontal        | Bearing                  | Start Time                  |
|                                                                                   | Water Level                        |                          | End Time                    |
|                                                                                   | Date                               |                          | Date <u>5/30/75</u>         |
|                                                                                   | Casing Depth                       |                          | Driller <u>6/2</u>          |

| SAMPLE NUMBER | INCHES DRIVEN RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE IN. | SOIL GRAPH | Surface Conditions                                                                                   | Purpose of Log |
|---------------|------------------------|---------------------|--------------|-----------------------------|-----------|------------|------------------------------------------------------------------------------------------------------|----------------|
|               |                        |                     |              |                             |           |            | DESCRIPTION OF MATERIAL                                                                              | REMARKS        |
|               |                        |                     |              |                             |           | 5          |                                                                                                      |                |
|               |                        |                     |              |                             |           | 10         |                                                                                                      |                |
|               |                        |                     |              |                             |           | 15         | Top Soil, and brown med. to fine SAND<br>Fine to med. brown sand with some silt (possible top soil?) |                |
|               |                        |                     |              |                             |           | 20         | Fine to med. brown sand with silt.<br>Silty clay with sand                                           |                |
|               |                        |                     |              |                             |           | 25         | Med. sand with few bits of gravel, silt<br>Med. to coarse sand with bits of gravel                   |                |
|               |                        |                     |              |                             |           | 30         | Coarse gravel<br>SAND gravel<br>Brown clay<br>Grey clay                                              |                |

|                                                 |      |                                                                                                                                                                                                                                                  |     |                                                |                                                                                                                                   |
|-------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| DRILLING METHOD<br><u>2 1/2 inch DRIVE PIPE</u> |      | SAMPLER TYPES<br><input type="checkbox"/> Split Spoon<br><input type="checkbox"/> Auger<br><input checked="" type="checkbox"/> Shovel<br><input checked="" type="checkbox"/> Retractable Plug<br><input checked="" type="checkbox"/> Shelby Tube |     | Denison Double Tube<br>Double Tube Core Barrel | FIELD GRADATION KEY<br>% Finer by Weight<br>"TRACE"..... 0% to<br>"LITTLE"..... 10% to<br>"SOME"..... 20% to<br>"AND"..... 35% to |
| HAMMER                                          | LBS. | DROP                                                                                                                                                                                                                                             | IN. |                                                |                                                                                                                                   |

### MAP PLAN

SEE REPORT SITE MAP  
FIGURE 3

Client William R Mackay

Location Luther Forest

Drilling Co. LAYNE - NEW YORK

Driller

Inspector D. T. CLARK

|       |       |       |      |
|-------|-------|-------|------|
| Hole  |       | Total |      |
| Elev. | 2199' | Depth | 640' |

| Inclination<br>from Horizontal | Bearing |
|--------------------------------|---------|
|--------------------------------|---------|

Water Level

Time

Date:

Casing Depth

Job No.

SAROH E

Bong No.

TH-4-

Sheet 4 of 4

## Drilling

| Start | End   | Time | Location | Notes                  |
|-------|-------|------|----------|------------------------|
| 10:00 | 10:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 10:15 | 10:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 10:30 | 10:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 10:45 | 11:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 11:00 | 11:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 11:15 | 11:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 11:30 | 11:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 11:45 | 12:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 12:00 | 12:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 12:15 | 12:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 12:30 | 12:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 12:45 | 13:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 13:00 | 13:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 13:15 | 13:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 13:30 | 13:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 13:45 | 14:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 14:00 | 14:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 14:15 | 14:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 14:30 | 14:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 14:45 | 15:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 15:00 | 15:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 15:15 | 15:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 15:30 | 15:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 15:45 | 16:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 16:00 | 16:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 16:15 | 16:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 16:30 | 16:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 16:45 | 17:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 17:00 | 17:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 17:15 | 17:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 17:30 | 17:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 17:45 | 18:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 18:00 | 18:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 18:15 | 18:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 18:30 | 18:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 18:45 | 19:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 19:00 | 19:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 19:15 | 19:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 19:30 | 19:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 19:45 | 20:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 20:00 | 20:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 20:15 | 20:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 20:30 | 20:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 20:45 | 21:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 21:00 | 21:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 21:15 | 21:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 21:30 | 21:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 21:45 | 22:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 22:00 | 22:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 22:15 | 22:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 22:30 | 22:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 22:45 | 23:00 | 15   | Room 101 | Meeting with Mr. Smith |
| 23:00 | 23:15 | 15   | Room 101 | Meeting with Mr. Smith |
| 23:15 | 23:30 | 15   | Room 101 | Meeting with Mr. Smith |
| 23:30 | 23:45 | 15   | Room 101 | Meeting with Mr. Smith |
| 23:45 | 24:00 | 15   | Room 101 | Meeting with Mr. Smith |

|     |     |
|-----|-----|
| 100 | 100 |
| 100 | 100 |

[illegible]

|      |   |
|------|---|
| Date | 0 |
|------|---|

|        |        |
|--------|--------|
| 6/3/25 | 6/3/25 |
|--------|--------|

Scale

**Elevation**

| SAMPLE<br>NUMBER | INCHES DRIVEN<br>RECOVERY | SAMPLE<br>TYPE & DEPTH | CASING &<br>BIT | BLOWS ON<br>SAMPLER<br>FOR _____ INCHES | SCALE<br>" " | SOIL<br>GRAPH | Surface Conditions                                                                                                                                 | Purpose of Log |
|------------------|---------------------------|------------------------|-----------------|-----------------------------------------|--------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                  |                           |                        |                 |                                         |              |               | DESCRIPTION OF MATERIAL                                                                                                                            | REMARKS        |
|                  |                           |                        |                 |                                         |              |               |                                                                                                                                                    |                |
|                  |                           |                        |                 |                                         |              | 5             |                                                                                                                                                    |                |
|                  |                           |                        |                 |                                         |              | 10            | Fine to med. brown SAND<br>with some silt                                                                                                          |                |
|                  |                           |                        |                 |                                         |              | 15            | Fine to med. brown SAND<br>with some silt                                                                                                          |                |
|                  |                           |                        |                 |                                         |              | 20            | Fine to med. brown SAND                                                                                                                            |                |
|                  |                           |                        |                 |                                         |              | 25            | Med. to coarse SAND<br>Fine to med. brown sand with<br>some silt<br>Coarse sand with some gravel<br>and clay<br>Med. to coarse sand with<br>gravel |                |
|                  |                           |                        |                 |                                         |              | 30            |                                                                                                                                                    |                |

DRILLING METHOD

2 1/2 - inch DRIVE PIPE

### SAMPLING METHOD

## HAMMER

**LBS.**

**DROP**

**N.**

### Split Spoon

**Auger**

☒ Shovel

 **Retractable Plug**

**Shelby Tube**

## SAMPLER TYPES

**Denison Double Tube**

### ■ Double Tube Core Barrel

FIELD GRADATION KEY

% Finer by Weight

"TRACE"..... 0 % to 1

"LITTLE"..... 10% to:

"SOME"..... 20% to 30%

"AND"..... 35% to 50%



| SAMPLE<br>NUMBER        | INCHES DRIVEN<br>RECOVERY | SAMPLE<br>TYPE & DEPTH | CASING &<br>BIT | BLOWS ON<br>SAMPLER<br>FOR INCHES | SCALE<br>1" | SOIL<br>GRAPH | DUNN GEOSCIENCE CORP. BORING LOG                    |                          |
|-------------------------|---------------------------|------------------------|-----------------|-----------------------------------|-------------|---------------|-----------------------------------------------------|--------------------------|
|                         |                           |                        |                 |                                   |             |               | BORING NO. <i>7H-475</i> SHEET <i>2</i> OF <i>3</i> | JOB NO. <i>SPR-04-65</i> |
| DESCRIPTION OF MATERIAL |                           |                        |                 |                                   |             |               | REMARKS                                             |                          |
|                         |                           |                        |                 |                                   |             |               | Gravel, blue/gray clay                              |                          |
|                         |                           |                        |                 |                                   |             | 35            | Blue-gray clay to 64'                               |                          |
|                         |                           |                        |                 |                                   |             | 40            |                                                     |                          |
|                         |                           |                        |                 |                                   |             | 45            |                                                     |                          |
|                         |                           |                        |                 |                                   |             | 50            |                                                     |                          |
|                         |                           |                        |                 |                                   |             | 55            |                                                     |                          |
|                         |                           |                        |                 |                                   |             | 60            |                                                     |                          |
|                         |                           |                        |                 |                                   |             | 65            |                                                     |                          |

# STANDARD PENETRATION TEST

Sampler.....2"O.D. x 1 3/8" I.D.  
 Hammer.....140 lb., 30" fall  
 Soil Designation Blows/Ft.

|               |            |         |
|---------------|------------|---------|
| Sand and Silt | Loose      | 1-10    |
|               | Medium     | 11-30   |
|               | Dense      | 31-50   |
|               | Very Dense | Over 50 |
| Clay          | Very Soft  | Less 2  |
|               | Soft       | 3-5     |
|               | Medium     | 6-15    |
|               | Stiff      | 16-25   |
|               | Hard       | Over 25 |

|                                    |  |                          |  |  |                        |                      |
|------------------------------------|--|--------------------------|--|--|------------------------|----------------------|
| Client <u>William R Mackay</u>     |  |                          |  |  | Job No. <u>SAR-04</u>  |                      |
| Location <u>Lutter Forest</u>      |  |                          |  |  | Boring No. <u>TH 5</u> |                      |
| Drilling Co. <u>LAYNE-NEW YORK</u> |  |                          |  |  |                        |                      |
| Driller                            |  |                          |  |  | Sheet <u>L of</u>      |                      |
| Inspector <u>D. T. Clark</u>       |  |                          |  |  | Drilling               |                      |
| Hole Elev. <u>518.5'</u>           |  | Total Depth <u>48.0'</u> |  |  | Start                  | Finish               |
| Inclination from Horizontal        |  | Bearing                  |  |  | Time                   |                      |
| Water Level                        |  |                          |  |  | Date<br><u>6/4/75</u>  | Driller<br><u>6/</u> |
| Time                               |  |                          |  |  |                        |                      |
| Date                               |  |                          |  |  |                        |                      |
| Casing Depth                       |  |                          |  |  |                        |                      |

### Elevation

| SAMPLE NUMBER | INCHES DRIVEN RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE<br>" " | SOIL GRAPH | Surface Conditions                                                               | Purpose of Log |
|---------------|------------------------|---------------------|--------------|-----------------------------|--------------|------------|----------------------------------------------------------------------------------|----------------|
|               |                        |                     |              |                             |              |            | DESCRIPTION OF MATERIAL                                                          | REMARKS        |
|               |                        |                     |              |                             |              |            |                                                                                  |                |
|               |                        |                     |              |                             |              | 5          |                                                                                  |                |
|               |                        |                     |              |                             |              | 10         | Fine to med. brown SAND                                                          |                |
|               |                        |                     |              |                             |              | 15         | Fine to med. brown sand with some silt                                           |                |
|               |                        |                     |              |                             |              | 20         | Few gravel, fine to med. brown sand<br>Fine to med. brown sand<br>few "p" gravel |                |
|               |                        |                     |              |                             |              | 25         | 1/2 inch gravel, sand & gravel,<br>gray clay<br>Brown dense clay                 |                |
|               |                        |                     |              |                             |              | 30         | GRAY CLAY sand & gravel blue<br>gray clay 35-37'                                 |                |

DRILLING METHOD

3 1/2-inch DRIVE PIPE

SAMPLING METHOD

HAMMER

LBS.

DROP

N.

☐ Split Spoon  
☒ Auger  
☒ Shovel  
☒ Retractable Plug  
☒ Shelby Tube

SAMPLER TYPES

☒ Denison Double Tube  
☒ Double Tube Core Barrel

FIELD GRADATION KEY

% Finer by Weight

"TRACE"..... 0 % to  
"LITTLE"..... 10 % to  
"SOME"..... 20 % to  
"AND"..... 35 % to

# JOHN DEUSSENCE CORP. BORING LOG

|                                                                                   |                                         |                          |                            |
|-----------------------------------------------------------------------------------|-----------------------------------------|--------------------------|----------------------------|
| <p>MAP PLAN</p> <p style="font-size: 1.2em;">SEE REPORT SITE Map<br/>FIGURE 3</p> | Client <u>William R. McKay</u>          |                          | Job No. <u>5A1044</u>      |
|                                                                                   | Location <u>Lumer Forest</u>            |                          | Boring No.                 |
|                                                                                   | Drilling Co. <u>LAYNE - NEW ORLEANS</u> |                          | Sheet <u>L</u> of <u>1</u> |
|                                                                                   | Driller                                 |                          |                            |
|                                                                                   | Inspector <u>A. T. Clark</u>            |                          |                            |
|                                                                                   | Hole Elev. <u>209.8'</u>                | Total Depth <u>32.3'</u> | Drilling                   |
|                                                                                   | Inclination from Horizontal             | Bearing                  | Start                      |
|                                                                                   | Star Level                              |                          | Time                       |
|                                                                                   | Time                                    |                          | Date                       |
|                                                                                   | Date                                    |                          | 6/5/75                     |
| Casing Depth                                                                      |                                         |                          | 6'                         |

| Scale         |                        | Elevation           |              |                             |           | Surface Conditions |                                       | Purpose of Log |  |
|---------------|------------------------|---------------------|--------------|-----------------------------|-----------|--------------------|---------------------------------------|----------------|--|
| SAMPLE NUMBER | INCHES DRIVEN RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE IN. | SOIL GRAPH         | DESCRIPTION OF MATERIAL               | REMARKS        |  |
|               |                        |                     |              |                             |           |                    |                                       |                |  |
|               |                        |                     |              |                             |           | 5                  |                                       |                |  |
|               |                        |                     |              |                             |           | 10                 | Fine to med. gray SAND with some silt |                |  |
|               |                        |                     |              |                             |           | 15                 | Clay and fine to med. gray SAND       |                |  |
|               |                        |                     |              |                             |           |                    | YELLOW-brown clay                     |                |  |
|               |                        |                     |              |                             |           |                    | Gray, fine to med. sand               |                |  |
|               |                        |                     |              |                             |           | 20                 | Fine gray sand                        |                |  |
|               |                        |                     |              |                             |           | 25                 |                                       |                |  |
|               |                        |                     |              |                             |           | 30                 |                                       |                |  |

|                                                  |      |                                                                                                                                                                                                                                            |                                                                                                                              |                                                                                                                                               |
|--------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| DRILLING METHOD<br><u>2 1/2" INCH DRIVE PIPE</u> |      | <input type="checkbox"/> Split Spoon<br><input checked="" type="checkbox"/> Auger<br><input checked="" type="checkbox"/> Shovel<br><input checked="" type="checkbox"/> Retractable Plug<br><input checked="" type="checkbox"/> Shelby Tube | SAMPLER TYPES<br><input checked="" type="checkbox"/> Denison Double Tube<br><input type="checkbox"/> Double Tube Core Barrel | FIELD GRADATION KEY<br>% Finer by Weight<br>"TRACE"..... 0% to 10<br>"LITTLE"..... 10% to 20<br>"SOME"..... 20% to 35<br>"AND"..... 35% to 50 |
| HAMMER                                           | LBS. | DROP                                                                                                                                                                                                                                       | N.                                                                                                                           |                                                                                                                                               |

# SOIL SCIENCE CORP. BORING LOG

|                                                                                  |                                                  |                            |
|----------------------------------------------------------------------------------|--------------------------------------------------|----------------------------|
| <b>MAP PLAN</b><br><br>SEE REPORT SITE MAP<br>(16 FT WEST OF TH-275)<br>FIGURE 3 | Client <u>William R. Mackay</u>                  | Jag No. <u>SPR-CH 6</u>    |
|                                                                                  | Location <u>Luther Forest</u>                    | Boring No. <u>TH-7-70</u>  |
|                                                                                  | Drilling Co. <u>LAYNE-NEW YORK</u>               |                            |
|                                                                                  | Driller                                          | Sheet <u>L</u> of <u>2</u> |
|                                                                                  | Inspector <u>D. T. Clark</u>                     |                            |
|                                                                                  | Hole Elev. <u>313.8'</u> Total Depth <u>340'</u> | Drilling Start Time        |
|                                                                                  | Inclination from Horizontal                      | Bearing                    |
|                                                                                  | Water Level                                      |                            |
|                                                                                  | Time                                             |                            |
|                                                                                  | Date                                             | Date <u>5/10/75</u> Dr     |
| Casing Depth                                                                     |                                                  |                            |

| SAMPLE NUMBER | INCHES DRIVEN<br>RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE<br>1" = | SOIL GRAPH | Surface Conditions                          | Purpose of Log |
|---------------|---------------------------|---------------------|--------------|-----------------------------|---------------|------------|---------------------------------------------|----------------|
|               |                           |                     |              |                             |               |            | DESCRIPTION OF MATERIAL                     | REMARKS        |
|               |                           |                     |              |                             |               | 5          |                                             |                |
|               |                           |                     |              |                             |               | 10         |                                             |                |
|               |                           |                     |              |                             |               | 15         | Brown med. SAND                             |                |
|               |                           |                     |              |                             |               | 20         | Brown med. SAND                             |                |
|               |                           |                     |              |                             |               | 25         | Very fine sand with silty clay layers       |                |
|               |                           |                     |              |                             |               | 30         | Fine to med. brown sand with few "p" gravel |                |
|               |                           |                     |              |                             |               | 35         | Silty clay, some sand, few "p" gravel       |                |
|               |                           |                     |              |                             |               | 40         | Fine to med. to coarse SAND                 |                |

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DRILLING METHOD</b><br><u>2 1/2" INCH DRIVE PIPE</u><br><b>SAMPLING METHOD</b><br>HAMMER    LBS.    DROP    IN. | <input type="checkbox"/> Split Spoon <b>SAMPLER TYPES</b><br><input type="checkbox"/> Auger<br><input checked="" type="checkbox"/> Shovel <input checked="" type="checkbox"/> Denison Double Tube<br><input checked="" type="checkbox"/> Retractable Plug <input type="checkbox"/> Double Tube Core Barrel<br><input checked="" type="checkbox"/> Shelby Tube | <b>FIELD GRADATION KEY</b><br>% Finer by Weight<br>"TRACE"..... 0% to 10<br>"LITTLE"..... 10% to 20<br>"SOME"..... 20% to 30<br>"AND"..... 30% to 100 |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

# DUNN GEOSCIENCE CORP. BORING LOG

BORING NO. 14-7-75 SHEET 3 OF 3 JOB NO. SAR-04-6

| SAMPLE NUMBER | INCHES DRIVE RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLE FOR 1 INCH | SCALE 1" | SOIL GRAPH | DESCRIPTION OF MATERIAL         | REMARKS |
|---------------|-----------------------|---------------------|--------------|----------------------------|----------|------------|---------------------------------|---------|
|               |                       |                     |              |                            |          | 35         | Brown clay with sand and gravel |         |
|               |                       |                     |              |                            |          | 40         | Blue-gray clay                  |         |

STANDARD PENETRATION TEST

|               |                                       |
|---------------|---------------------------------------|
| Sampler.....  | 2" O.D. x 1 3/8" I.D.                 |
| Hammer.....   | 140 lb., 30" fall                     |
| Soil          | Designation      Blows/Ft.            |
| Sand and Silt | { Loose                      1-10     |
|               | { Medium                    11-30     |
|               | { Dense                      31-50    |
|               | { Very Dense                Over 50   |
| Clay          | { Very Soft                  Less 2   |
|               | { Soft                        3-5     |
|               | { Medium                    6-15      |
|               | { Stiff                        16-25  |
|               | { Hard                        Over 25 |

# MAP PLAN

SEE REPORT SITE MAP  
FIGURE 3

|                             |                  |       |  |                |         |
|-----------------------------|------------------|-------|--|----------------|---------|
| Client                      | William R Mackay |       |  | Job No.        | SAR-04  |
| Location                    | Luther Forest    |       |  | Boring No.     | TH-8-7  |
| Drilling Co.                | LAYLE-NEW YORK   |       |  | Driller        |         |
| Inspector                   | J. T. Clark      |       |  | Sheet          | L of    |
| Hole Elev                   | Total Depth      | 73.0' |  | Drilling Start | Time    |
| Inclination from Horizontal | Bearing          |       |  | Date           | 6/11/75 |
| Water Level                 |                  |       |  | Casing Depth   |         |
| Time                        |                  |       |  |                |         |
| Date                        |                  |       |  |                |         |

Scale Elevation

| SAMPLE NUMBER | INCHES DRIVEN<br>RECOVERY | SAMPLE TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE 1" = | SOIL GRAPH | Surface Conditions                                    | Purpose of Log |
|---------------|---------------------------|---------------------|--------------|-----------------------------|------------|------------|-------------------------------------------------------|----------------|
|               |                           |                     |              |                             |            |            | DESCRIPTION OF MATERIAL                               | REMARKS        |
|               |                           |                     |              |                             |            | 5          |                                                       |                |
|               |                           |                     |              |                             |            | 10         | TOP SOIL / CLAY<br>GRAY, SILTY SAND                   |                |
|               |                           |                     |              |                             |            | 15         | CLAY                                                  |                |
|               |                           |                     |              |                             |            | 20         | BLUE / GRAY "POHOBIS" CLAY<br>BLUE / GRAY CLAY TO 73' |                |
|               |                           |                     |              |                             |            | 25         |                                                       |                |
|               |                           |                     |              |                             |            | 30         |                                                       |                |

## DRILLING METHOD

2 1/2 INCH DRIVE PIPE

## SAMPLING METHOD

HAMMER LBS. DROP IN.

|                                                      |                                                             |
|------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Split Spoon                 | <u>SAMPLER TYPES</u>                                        |
| <input type="checkbox"/> Auger                       |                                                             |
| <input checked="" type="checkbox"/> Shovel           | <input checked="" type="checkbox"/> Denison Double Tube     |
| <input checked="" type="checkbox"/> Retractable Plug | <input checked="" type="checkbox"/> Double Tube Core Barrel |
| <input checked="" type="checkbox"/> Shelby Tube      |                                                             |

## FIELD GRADATION KEY

% Finer by Weight  
 "TRACE"..... 0% to  
 "LITTLE"..... 10% to  
 "SOME"..... 20% to  
 "AND"..... 35% to

TEST REPORT SITE  
MAP

|                                  |                        |                            |
|----------------------------------|------------------------|----------------------------|
| Client <u>WILLIAM K. M. CO.</u>  |                        | Job No. <u>52-2-5</u>      |
| Location <u>LUTHER F. ROAD</u>   |                        | Boring No. <u>10-5</u>     |
| Drilling Co. <u>HILL COMPANY</u> |                        | Sheet <u>1</u> of <u>2</u> |
| Driller                          |                        |                            |
| Inspector <u>D.T. BLACK</u>      |                        |                            |
| Hole Elev. <u>213.4</u>          | Total Depth <u>33'</u> | Drilling                   |
| Inclination from Horizontal      | Bearing                | Start Time                 |
| Water Level                      |                        | Finish Time                |
| Time                             |                        | Date                       |
| Date                             |                        | Date                       |
| Casing Depth                     |                        |                            |

| Elevation    |              |                             |          |            | Surface Conditions                          | Purpose of Log                                                                                                                             |
|--------------|--------------|-----------------------------|----------|------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE & DEPTH | CASING & BIT | BLOWS ON SAMPLER FOR INCHES | SCALE IN | SOIL GRAPH | DESCRIPTION OF MATERIAL                     | REMARKS                                                                                                                                    |
|              |              |                             |          |            | DRY SAND                                    |                                                                                                                                            |
|              |              |                             |          | 5          | WET SAND WITH SOME GRAVEL                   |                                                                                                                                            |
|              |              |                             |          | 10         | MEDIUM TO COARSE SAND                       | WELL COMPLETED AS A 8' X 16" GRAVEL PRACTICE WELL USING LAYING #3 AS THE PACK. TEN FEET OF THE 16-INCH CASING LEFT IN PLACE AT THE SURFACE |
|              |              |                             |          | 15         |                                             |                                                                                                                                            |
|              |              |                             |          | 20         |                                             |                                                                                                                                            |
|              |              |                             |          | 25         | MEDIUM TO COARSE SAND WITH SOME FINE GRAVEL |                                                                                                                                            |
|              |              |                             |          | 30         |                                             | 5' OF 6-INCH STRAINLESS STEEL, 80 SLOT SCREEN                                                                                              |

- ☐ Split Spoon **SAMPLER TYPES**
- ☐ Auger
- ☒ Shovel ☒ Denison Double Tube
- ☒ Retractable Plug ☒ Double Tube Core Barrel
- ☒ Shelby Tube

**FIELD GRADATION KEY**  
% Finer by Weight

"TRACE"..... 0% to 10%

"LITTLE"..... 10% to 20%

"SOME"..... 20% to 35%

"AND"..... 35% to 50%

DROP N.

**C.T. MALE ASSOCIATES, 1979  
SOIL BORING LOGS**



**1**

## WATER LEVEL OBSERVATION

| WL: | D | WS OR WD |
|-----|---|----------|
|-----|---|----------|

WL:            R            BCR           

WL: Y AB

WL: 24 Hr. AB

[illegible]







Sheet 1 of 1

### WATER LEVEL OBSERVATION

WL: \_\_\_\_\_ WS OR WD \_\_\_\_\_

WL: \_\_\_\_\_ BCR \_\_\_\_\_ ACR \_\_\_\_\_

WL: \_\_\_\_\_ AB \_\_\_\_\_ Hr. A \_\_\_\_\_

WL: \_\_\_\_\_ 24 Hr. AB

[illegible]

ON \_\_\_\_\_  
D \_\_\_\_\_  
ACR \_\_\_\_\_  
Hr. AB \_\_\_\_\_



[illegible]



Sheet 1 of 1

SS SIZE 1-3/8" ID 2" OD  
HAMMER: 140 DROP: 30"  
ST SIZE \_\_\_\_\_ ST SIZE \_\_\_\_\_  
CASING USED P.A. SIZE \_\_\_\_\_

**WATER LEVEL OBSERVATION**

|     |         |           |              |
|-----|---------|-----------|--------------|
| WL: | _____   | WS OR WD  | _____        |
| WL: | D _____ | BCR       | ACR _____    |
| WL: | R _____ | AB        | Hr. AB _____ |
| WL: | Y _____ | 24 Hr. AB | _____        |

[illegible]

DUNN GEOSCIENCE 1985  
SOIL BORING LOGS  
HYDROGEOLOGIC INVESTIGATION DURING  
INSTALLATION OF PRODUCTION WELL 3



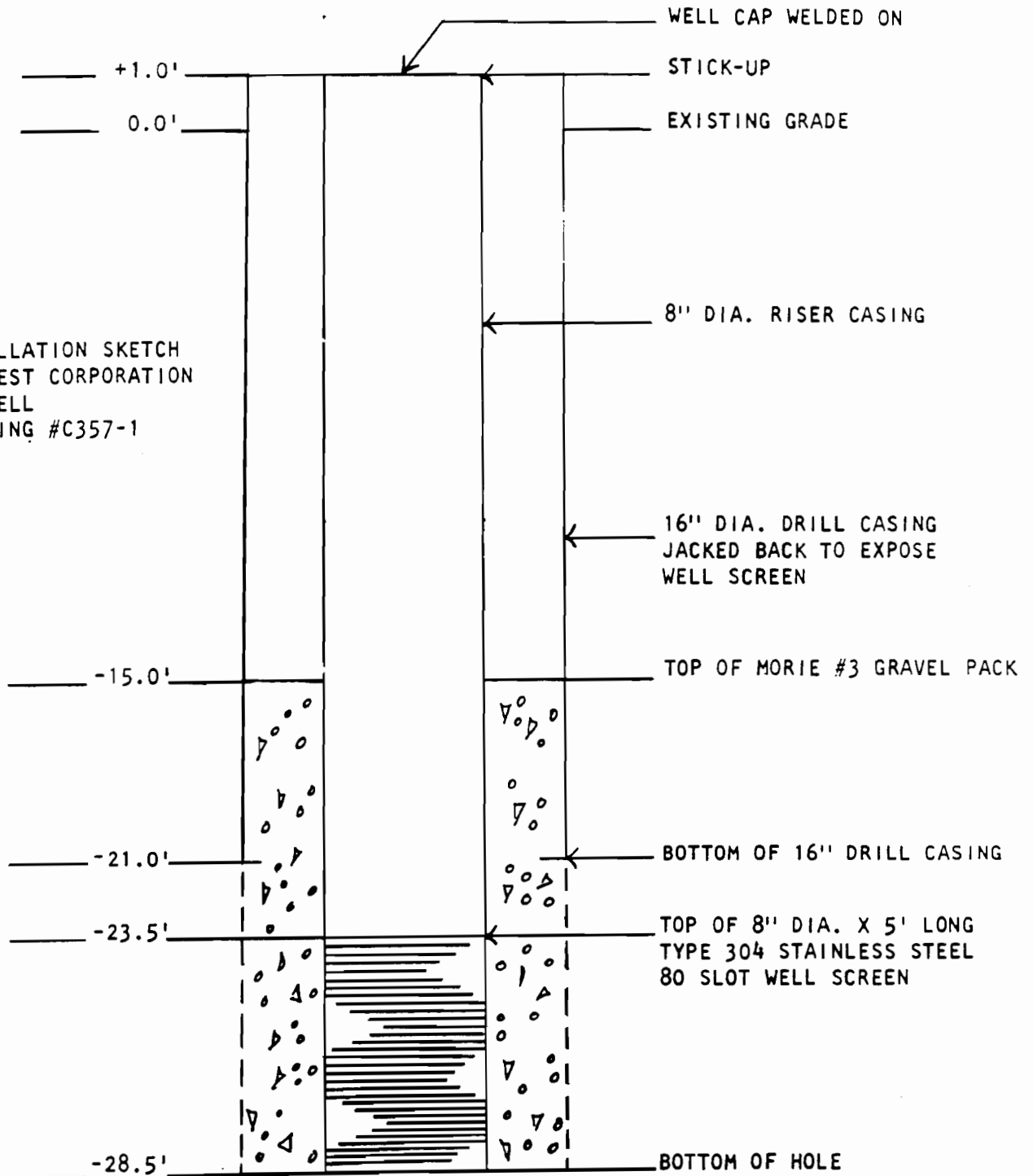
**CATOH Environmental Companies, Inc.**

16 Drumlin Drive, P.O. Box 560

Weedsport, New York 13166

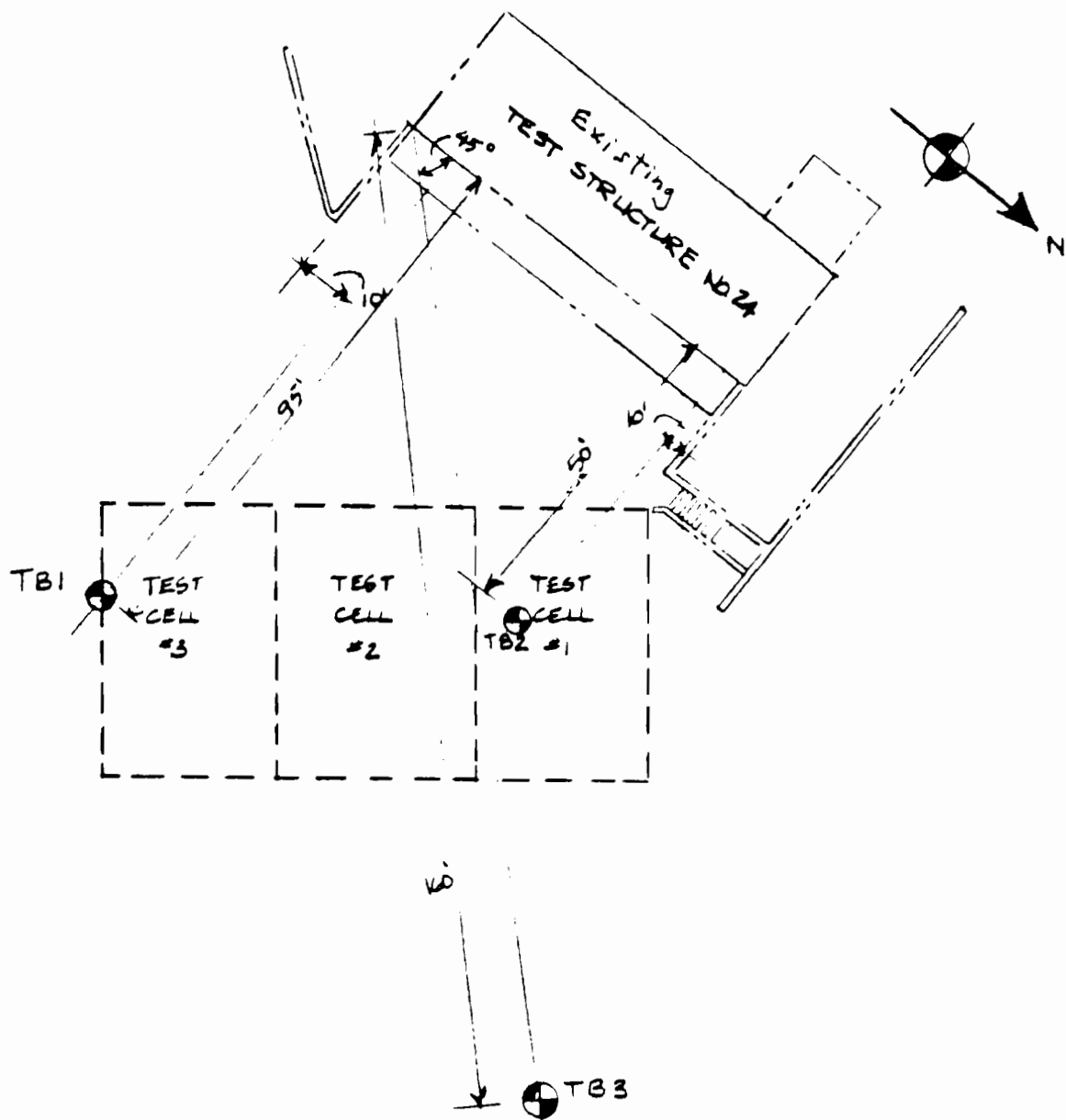
Phone: 315/834-6603

WELL INSTALLATION SKETCH  
LUTHER FOREST CORPORATION  
8" X 16" WELL  
CATOH DRAWING #C357-1



NOT TO SCALE

**GE, 1985  
BERTH 24 TEST BORING  
LOCATION PLAN AND  
GEOLOGIC LOGS**



|                                                                     |              |                                                                                                                            |                                                                                                                                           |  |  |  |                            |                          |                         |           |
|---------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------|--------------------------|-------------------------|-----------|
| DRAWN BY<br>BTB 1-22-65<br>Q. NO.<br>SUBJECT<br>MALTA TEST PIT # 24 | CHECKED BY   | TITLE<br>BORING LOCATION<br>PLAN<br>MADE FOR<br>GENERAL ELECTRIC COMPANY<br>ORDNANCE SYSTEMS DIVISION<br>PITTSFIELD, MASS. | <b>GENERAL ELECTRIC</b><br>PROJECTS ENGINEERING OPERATION<br>ENGINEERING SERVICES AND PROJECTS<br>DEPARTMENT<br>SCHENECTADY, N.Y., U.S.A. |  |  |  |                            |                          |                         |           |
|                                                                     | REVIEW ENGR. |                                                                                                                            |                                                                                                                                           |  |  |  | PEO IDENT. NO.<br>50P4862A | DRAWING NO.<br>550 P4862 | SH. B-1<br>CONT. ON SH. | REV.<br>0 |
|                                                                     | PEO JOB NO.  |                                                                                                                            |                                                                                                                                           |  |  |  |                            |                          |                         |           |

PROJECT General Electric  
LOCATION Malta, New York

HOLE NO. TB-2

SURF. EL.

DATE STARTED 2/12/85 , DATE COMPLETED 2/12/85

JOB NO. 8513/K8503

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" — ASTM D-1586, STANDARD PENETRATION TEST

GROUND WATER DEPTH  
WHILE DRILLING 20.5'

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING  
"/OR — % CORE RECOVERY

BEFORE CASING Sand blew  
REMOVED at 35.0'

AFTER CASING Hole caved  
REMOVED 18.0' - Dry

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

| DEPTH | SAMPLE<br>DEPTH | SAMPLE<br>NUMBER | C | SAMPLE<br>DRIVE<br>RECORD<br>PER 6" | N  | DESCRIPTION OF MATERIAL               | STRATA<br>CHANGE<br>DEPTH |
|-------|-----------------|------------------|---|-------------------------------------|----|---------------------------------------|---------------------------|
|       | 0.0'-           | 1                |   | Auger                               |    | Gray-brown moist dense fine to medium |                           |
|       | 2.0'            |                  |   | Sample                              |    | SAND, some fine to coarse gravel, few |                           |
|       | 2.0'-           | 2                |   | 9/10                                |    | cobbles, little silt                  | 2.0'                      |
| 5.0   | 4.0'            |                  |   | 10/10                               | 20 | Brown moist medium dense fine to      |                           |
|       | 4.0'-           | 3                |   | 5/5                                 |    | medium SAND, trace silt               |                           |
|       | 6.0'            |                  |   | 6/11                                | 11 |                                       |                           |
|       | 6.0'-           | 4                |   | 11/10                               |    |                                       |                           |
|       | 8.0'            |                  |   | 10/9                                | 20 |                                       |                           |
|       | 8.0'-           | 5                |   | 9/10                                |    |                                       |                           |
| 10.0  | 10.0'           |                  |   | 10/11                               | 20 |                                       |                           |
|       | 10.0'-          | 6                |   | 9/10                                |    |                                       |                           |
|       | 12.0'           |                  |   | 12/12                               | 22 |                                       |                           |
| 15.0  |                 |                  |   |                                     |    |                                       |                           |
|       | 15.0'-          | 7                |   | 6/9                                 |    |                                       |                           |
|       | 16.5'           |                  |   | 10                                  | 19 |                                       |                           |
| 20.0  |                 |                  |   |                                     |    |                                       |                           |
| WL    | 20.0'-          | 8                |   | 9/12                                |    |                                       | 20.5'                     |
|       | 21.5'           |                  |   | 17                                  | 29 | Brown wet medium dense fine to medium |                           |
|       |                 |                  |   |                                     |    | SAND, trace to little silt            |                           |
| 25.0  |                 |                  |   |                                     |    |                                       |                           |
|       | 25.0'-          | 9                |   | 6/8                                 |    |                                       |                           |
|       | 26.5'           |                  |   | 6                                   | 14 |                                       |                           |
| 30.0  |                 |                  |   |                                     |    |                                       |                           |
|       | 30.0'-          | 10               |   | 4/9                                 |    |                                       |                           |
|       | 31.5'           |                  |   | 13                                  | 22 |                                       |                           |
| 35.0  |                 |                  |   |                                     |    |                                       |                           |
|       | 35.0'-          | 11               |   | 11/10                               |    |                                       |                           |
|       | 36.5'           |                  |   | 11                                  | 21 |                                       |                           |
|       |                 |                  |   |                                     |    | Bottom of Boring                      | 36.5'                     |
| 40.0  |                 |                  |   |                                     |    |                                       |                           |



FISHER ROAD  
EAST SYRACUSE, N Y 13057

HOLE NO. TB-3  
SURF. EL.

JOB NO. 8513/K8503

GROUND WATER DEPTH  
WHILE DRILLING Dry

BEFORE CASING  
REMOVED Dry

AFTER CASING  
REMOVED

Dry

SHEET 1 OF 1

| DEPTH | SAMPLE<br>DEPTH | SAMPLE<br>NUMBER | C | SAMPLE<br>DRIVE<br>RECORD<br>PER 6" | N  | DESCRIPTION OF MATERIAL                               | STRATA<br>CHANGE<br>DEPTH |
|-------|-----------------|------------------|---|-------------------------------------|----|-------------------------------------------------------|---------------------------|
|       | 0.0'-<br>2.0'   | 1                |   | Auger<br>Sample                     |    | Brown moist loose fine to medium SAND,<br>little silt |                           |
| 5.0   |                 |                  |   |                                     |    |                                                       |                           |
|       | 5.0'-<br>6.5'   | 2                |   | 3/3<br>4                            | 7  |                                                       |                           |
| 10.0  |                 |                  |   |                                     |    |                                                       | 10.0'                     |
|       | 10.0'-<br>11.5' | 3                |   | 3/5<br>6                            | 11 | Brown moist medium stiff CLAY and<br>SILT             | 10.4'                     |
| 15.0  |                 |                  |   |                                     |    |                                                       |                           |
|       | 15.0'-<br>16.5' | 4                |   | 5/6<br>6                            | 12 |                                                       |                           |
| 20.0  |                 |                  |   |                                     |    |                                                       |                           |
|       | 20.0'-<br>21.5' | 5                |   | 9/14<br>15                          | 29 |                                                       |                           |
| 25.0  |                 |                  |   |                                     |    |                                                       |                           |
|       | 25.0'-<br>26.5' | 6                |   | 5/6<br>9                            | 15 |                                                       |                           |
| 30.0  |                 |                  |   |                                     |    |                                                       |                           |
|       | 30.0'-<br>31.5' | 7                |   | 5/6<br>7                            | 13 | Bottom of Boring                                      | 31.5'                     |
| 35.0  |                 |                  |   |                                     |    |                                                       |                           |

[illegible]



## SAMPLE/CORE LOG

Boring Well 9 Project/No. N360MA1 Page 1 of 1  
 Site Location Wright Malta Test Facility Drilling Started 2-11-85 Drilling Completed 2-12-85  
 Total Depth Drilled 27 (feet)  
 Hole Diameter 8 (inches) Type of Sample/ Coring Device split spoon  
 Length and Diameter of Coring Device 2 ft Sampling Interval 0-2, 2-4, then every 5 feet  
 Drilling Fluid Used none Drilling Method auger  
 Drilling Contractor Parratt-Wolff Driller Butch Helper Mark  
 Prepared By Robert Graham Hammer Weight 145 Hammer Drop 30 inches

| Sample/Core Depth<br>(feet below land surface) |    | Core<br>Recovery<br>(feet) | Time/Hydraulic<br>Pressure or<br>Blows per 6<br>inches | Sample/Core Description                                                                     |
|------------------------------------------------|----|----------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|
| From                                           | To |                            |                                                        |                                                                                             |
| 0                                              | 1  | 1                          | 80 - 75                                                | Sand, fine, silty, dark brown; some 1/8" - 1" gravel, rock fragments, dense, moist (frozen) |
| 1                                              | 2  | 1                          | 12 - 10                                                | Sand, fine to medium, brown; some 1/8" - 1" gravel, rock fragments, moist (frozen)          |
| 2                                              | 4  | 2                          | 25 - 37 -<br>11 - 11                                   | Sand, fine to medium, brown; moist (frozen)                                                 |
| 5                                              | 7  | 2                          | 2 - 2 -<br>5 - 7                                       | As above.                                                                                   |
| 10                                             | 12 | 2                          | 2 - 2 -<br>2 - 5                                       | As above.                                                                                   |
| 15                                             | 17 | 2                          | 3 - 3 -<br>4 - 5                                       | As above.                                                                                   |
| 20                                             | 22 | 2                          | 5 - 11 -<br>12 - 12                                    | As above; moist to wet, water table at 20 to 20.5 feet                                      |
| 25                                             | 27 | 2                          | 9 - 12 -<br>14 - 17                                    | Sand, fine to medium, brown; some silt, trace coarse sand, 1/8" - 1/4" gravel, wet          |
|                                                |    |                            |                                                        |                                                                                             |
|                                                |    |                            |                                                        |                                                                                             |
|                                                |    |                            |                                                        |                                                                                             |
|                                                |    |                            |                                                        |                                                                                             |
|                                                |    |                            |                                                        |                                                                                             |

**GERAGHTY & MILLER 1986**

**Geologic Logs**

GERAGHTY & MILLER, INC.

## SAMPLE/CORE LOG

Boring/Well MW-1 Project/No. G.E./NO360MA2 Page 1 of 2  
 Site Malta, NY Drilling Started 5-5-86 Drilling Completed 5-6-86  
 Location \_\_\_\_\_  
 Total Depth Drilled 55 feet Hole Diameter 8 inches Type of Sample/  
 Length and Diameter 2'x1.5" Coring Device Split-spoon  
 of Coring Device \_\_\_\_\_ Sampling Interval 5 feet  
 Land-Surface Elev. 339.4 feet \* ☒ Surveyed ☐ Estimated Datum MSL  
 Drilling Fluid Used None Drilling Method Auger  
 Drilling Contractor Parratt-Wolff Driller Butch Helper Glen  
 Prepared By Rob Graham Hammer Weight 140 Hammer Drop 30 inches

| Sample/Core Depth<br>(feet below land surface) |    | Core<br>Recovery<br>(feet) | Time/Hydraulic<br>Pressure or<br>Blows per 6<br>inches | Sample/Core Description                                                                                                                                         |
|------------------------------------------------|----|----------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From                                           | To |                            |                                                        |                                                                                                                                                                 |
| 0                                              | 2  | 1.4                        | 2-2-2-2                                                | SAND, fine-medium, sub-rounded, orange-brown; trace orange-brown silt and plant roots; moist.                                                                   |
| 5                                              | 7  | 1.5                        | 2-3-3-4                                                | SAND, fine-medium, sub-rounded, brown; trace brown silt and black, sub-rounded 1/8" gravel; moist.                                                              |
| 10                                             | 12 | 1.6                        | 2-5-5-5                                                | SAND, fine-medium, sub-rounded, brown; trace brown silt and white, brown and orange-brown, sub-rounded coarse sand and 1/8" gravel; somewhat dense; very moist. |
| 15                                             | 17 | 2.0                        | 3-4-5-5                                                | SAND, fine, brown and brown silt; some brown, sub-rounded medium sand; somewhat dense; very moist.                                                              |
| 20                                             | 22 | 1.7                        | 6-12-18-23                                             | SAND, fine-medium, sub-rounded, brown and white; trace brown silt; compact; very moist.                                                                         |
| 25                                             | 27 | 1.7                        | 6-10-18-31                                             | SAND, fine, brown and white, and brown silt; some brown and white, sub-rounded medium sand; compact; moist.                                                     |
| 30                                             | 32 | 2.0                        | 6-9-12-15                                              | SAND, fine-medium, sub-rounded, brown and white; some brown and white silt; moist.                                                                              |
| 35                                             | 37 | 2.0                        | 10-16-19-24                                            | SAND, fine-medium, sub-rounded, brown and white; some brown and white silt; trace brown and white, sub-rounded coarse sand; slightly moist.                     |
| 40                                             | 42 | 2.0                        | 6-13-20-                                               | SAND, fine, brown and white, and brown and white silt;                                                                                                          |

## SAMPLE/CORE LOG (Cont.d)

Boring/Well MW-1

Page 2 of 2

Prepared By Rob Graham

[illegible]

## SAMPLE/CORE LOG

Boring/Well MW-2 Project/No. G.E./N0360 MA2 Page 1 of 2  
 Site Location Malta, NY Drilling Started 5-6-86 Drilling Completed 5-6-86  
 Total Depth Drilled 45 feet Hole Diameter 8 inches Type of Sample/ Coring Device Split-spoon  
 Length and Diameter of Coring Device 2' x 1.5" Sampling Interval 5 feet  
 Land-Surface Elev. 330.2 feet ☒ Surveyed ☐ Estimated Datum MSL  
 Drilling Fluid Used None Drilling Method Auger  
 Drilling Contractor Parratt-Wolff Driller Butch Helper Glen  
 Prepared By Rob Graham Hammer Weight 140 Hammer Drop 30 inches

| Sample/Core Depth<br>(feet below land surface) |    | Core<br>Recovery<br>(feet) | Time/Hydraulic<br>Pressure or<br>Blows per 6<br>inches | Sample/Core Description                                                                                                                                          |
|------------------------------------------------|----|----------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From                                           | To |                            |                                                        |                                                                                                                                                                  |
| 0                                              | 2  | 1.6                        | 1-2-6-4                                                | SAND, fine to medium, sub-rounded, dark brown to orange-brown, and dark brown to orange-brown silt; trace plant roots; moist.                                    |
| 5                                              | 7  | 1.2                        | 2-2-2-2                                                | SAND, fine to medium, sub-rounded, brown; trace brown silt and plant roots; moist.                                                                               |
| 10                                             | 12 | 1.7                        | 3-4-5-7                                                | SAND, fine to medium, sub-rounded, brown and white; trace brown and white silt.                                                                                  |
| 15                                             | 17 | 1.8                        | 4-5-9-                                                 | SAND, fine-medium, sub-rounded, brown and white; trace                                                                                                           |
|                                                |    |                            | 11                                                     | brown and white silt and brown, white and green, sub-rounded coarse sand; somewhat dense; moist.                                                                 |
| 20                                             | 22 | 2.0                        | 4-5-6-6                                                | SAND, fine, brown and white; some brown and white silt and sub-rounded medium sand; somewhat dense; moist.                                                       |
| 25                                             | 27 | 1.6                        | 4-6-7-7                                                | SAND, fine-medium, sub-rounded, brown and white; some brown and white silt; somewhat dense; moist.                                                               |
| 30                                             | 32 | 2.0                        | 6-11-11-                                               | SAND, fine-medium, sub-rounded, brown; some brown silt; somewhat dense; moist.                                                                                   |
|                                                |    |                            | 9                                                      |                                                                                                                                                                  |
| 35                                             | 37 | 2.0                        | 4-6-10-                                                | SAND, fine-medium, sub-rounded, brown; some brown silt; trace brown and white, sub-rounded coarse sand; somewhat dense; moist to wet (W.L. $\approx$ 46'-46.5'). |
|                                                |    |                            | 11                                                     |                                                                                                                                                                  |
| 40                                             | 42 | 2.0                        | 5-8-11-                                                | SAND, fine, brown, and brown silt; trace brown and                                                                                                               |
|                                                |    |                            | 13                                                     |                                                                                                                                                                  |

## SAMPLE/CORE LOG (Cont.d)

Boring/Well MW-2

Page 2 of 2

Prepared By Rob Graham

[illegible]

## SAMPLE/CORE LOG

Boring/Well MW-3 Project/No. G.E./N0360MA2 Page 1 of 1  
 Site Malta, NY Drilling Started 5-6-86 Drilling Completed 5-6-86  
 Location \_\_\_\_\_  
 Total Depth Drilled 40 feet Hole Diameter 8 inches Type of Sample/  
 Length and Diameter 2'x1.5" Coring Device Split-spoon  
 of Coring Device \_\_\_\_\_ Sampling Interval 5 feet  
 Land-Surface Elev. 323.2 feet ☒ Surveyed ☐ Estimated Datum MSL  
 Drilling Fluid Used None Drilling Method Auger  
 Drilling Contractor Parratt-Wolff Driller Butch Helper Glen  
 Prepared By Rob Graham Hammer Weight 140 Hammer Drop 30 inches

| Sample/Core Depth<br>(feet below land surface) |    | Core<br>Recovery<br>(feet) | Time/Hydraulic<br>Pressure or<br>Blows per 6<br>inches | Sample/Core Description                                                                                                                            |
|------------------------------------------------|----|----------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| From                                           | To |                            |                                                        |                                                                                                                                                    |
| 0                                              | 2  | 1.5                        | 1-2-3-3                                                | SAND, fine-medium, sub-rounded, dark brown to orange-brown; some dark brown to orange-brown silt; trace plant roots; moist.                        |
| 5                                              | 7  | 1.4                        | 2-2-3-3                                                | SAND, fine-medium, sub-rounded, brown; trace brown silt; moist.                                                                                    |
| 10                                             | 12 | 1.7                        | 2-3-4-4                                                | SAND, fine-medium, sub-rounded, brown; some brown silt; somewhat dense; moist.                                                                     |
| 15                                             | 17 | 2.0                        | 2-3-4-6                                                | Same as above; moist.                                                                                                                              |
| 20                                             | 22 | 1.6                        | 2-3-2-2                                                | SAND, fine-medium, sub-rounded, brown and white; trace brown silt; moist.                                                                          |
| 25                                             | 27 | 1.7                        | 4-8-11-11                                              | SAND, fine-medium, sub-rounded, brown and white; some white and brown, sub-rounded coarse sand; trace brown and white silt; somewhat dense; moist. |
| 30                                             | 32 | 2.0                        | 4-7-9-9                                                | SAND, fine, brown, and brown silt; some brown, sub-rounded medium sand; somewhat dense; moist to wet (W.L. $\approx$ 31').                         |
| 35                                             | 37 | 2.0                        | 5-8-9-10                                               | Same as above; dense; wet.                                                                                                                         |
| 40                                             | 42 | 2.0                        | 5-7-11-13                                              | SAND, fine-medium, sub-rounded, brown; some brown silt; somewhat dense; wet.                                                                       |
| 40                                             |    |                            |                                                        | T.D.                                                                                                                                               |

## SAMPLE/CORE LOG

Boring/Well MW-4 Project/No. G.E./N0360MA2 Page 1 of 2  
 Site Location Malta, NY Drilling Started 5-7-86 Drilling Completed 5-7-86  
 Total Depth Drilled 40 feet Hole Diameter 8 inches Type of Sample/ Coring Device Split-spoon  
 Length and Diameter of Coring Device 2'x1.5" Sampling Interval 5 feet  
 Land-Surface Elev. 325.4 feet ☒ Surveyed ☐ Estimated Datum MSL  
 Drilling Fluid Used None Drilling Method Auger  
 Drilling Contractor Parratt-Wolff Driller Butch Helper Glen  
 Prepared By Rob Graham Hammer Weight 140 Hammer Drop 30 inches

| Sample/Core Depth<br>(feet below land surface) |    | Core<br>Recovery<br>(feet) | Time/Hydraulic<br>Pressure or<br>Blows per 6<br>inches | Sample/Core Description                                                                                                                                   |
|------------------------------------------------|----|----------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| From                                           | To |                            |                                                        |                                                                                                                                                           |
| 0                                              | 2  | 1.2                        | 1-1-2-1                                                | SAND, fine, orange-brown, and orange-brown silt; some orange-brown, sub-rounded medium sand; trace plant roots; moist.                                    |
| 5                                              | 7  | 1.3                        | 3-3-5-6                                                | SAND, fine, brown; some brown silt and sub-rounded medium sand; moist.                                                                                    |
| 10                                             | 12 | 1.8                        | 3-3-4-4                                                | Same as above; very moist.                                                                                                                                |
| 15                                             | 17 | 1.7                        | 3-3-3-4                                                | SAND, fine, brown and white; some brown silt; moist.<br>SILT, brown; moist (last inch).                                                                   |
| 20                                             | 22 | 2.0                        | 4-10-15-14                                             | SILT, brown; dense; moist.<br>SAND, fine, brown and white; some brown silt; trace brown, sub-rounded to broken 1/8"-1" gravel; dense; moist (last 3").    |
| 25                                             | 27 | 2.0                        | 6-6-6-8                                                | SAND, fine-medium, sub-rounded, brown and white; some brown silt; trace brown, sub-rounded 1/4" gravel; somewhat dense; moist.                            |
| 30                                             | 32 | 1.7                        | 8-10-10-8                                              | SAND, fine-medium, sub-rounded, brown and white; trace brown silt and brown, black and white, sub-rounded coarse sand; moist to wet (W.L. $\approx$ 31'). |
| 35                                             | 37 | 2.0                        | 6-10-12-12                                             | SAND, fine-medium, sub-rounded, brown and white; some brown silt; trace brown and black, sub-rounded                                                      |



[illegible]

## SAMPLE/CORE LOG

Boring/Well B-1 Project/No. G.E./NO360MA2 Page 1 of 1  
 Site Location Malta, NY Drilling Started 5-8-86 Drilling Completed 5-8-86  
 Total Depth Drilled 20 feet Hole Diameter 8 inches Type of Sample/  
 Length and Diameter of Coring Device 2'x1.5" Split-spoon  
 Continuous to 10';  
 Sampling Interval 15' & 20'  
 Land-Surface Elev. \_\_\_\_\_ feet ☐ Surveyed ☐ Estimated Datum \_\_\_\_\_  
 Drilling Fluid Used None Drilling Method Auger  
 Drilling Contractor Parratt-Wolff Driller Butch Helper Glen  
 Prepared By Rob Graham Hammer Weight 140 Hammer Drop 30 inches

| Sample/Core Depth<br>(feet below land surface) |    | Core<br>Recovery<br>(feet) | Time/Hydraulic<br>Pressure or<br>Blows per 6<br>inches | Sample/Core Description                                                                                                                                             |
|------------------------------------------------|----|----------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From                                           | To |                            |                                                        |                                                                                                                                                                     |
| 0                                              | 2  | 0.9                        | 1-1-1-1                                                | SAND, fine, dark brown to orange-brown, and dark brown to orange-brown silt; some orange-brown, sub-rounded medium sand and plant roots; moist.                     |
| 2                                              | 4  | 1.4                        | 1-1-1-1                                                | SAND, fine, orange-brown, and orange-brown silt; some orange-brown, sub-rounded medium sand; trace black and white, sub-rounded coarse sand and 1/4" gravel; moist. |
| 4                                              | 6  | 1.2                        | 2-3-2-3                                                | SAND, fine, brown and brown silt; some brown, sub-rounded medium sand; trace black and white, sub-rounded coarse sand, moist.                                       |
| 6                                              | 8  | 1.5                        | 3-3-4-4                                                | Same as above; moist.                                                                                                                                               |
| 8                                              | 10 | 1.9                        | 3-3-3-3                                                | SAND, fine-medium, sub-rounded, brown; some brown silt.                                                                                                             |
| 15                                             | 17 | 2.0                        | 3-6-8-8                                                | SAND, fine, brown, and brown silt; some brown, sub-rounded medium sand; somewhat dense; moist.                                                                      |
| 20                                             | 22 | 2.0                        | 3-5-5-5                                                | SAND, fine, brown, and brown silt; somewhat dense; moist.                                                                                                           |
| 20                                             |    |                            |                                                        | T.D.                                                                                                                                                                |
|                                                |    |                            |                                                        |                                                                                                                                                                     |
|                                                |    |                            |                                                        |                                                                                                                                                                     |
|                                                |    |                            |                                                        |                                                                                                                                                                     |

**BLASLAND & BOUCK, 1986**  
**GEOLOGIC LOGS/WELLS**



BARLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

|           |         |            |    |          |             | DESCRIPTIONS    |
|-----------|---------|------------|----|----------|-------------|-----------------|
| DEPTH-FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 0         |         | 1          | 10 | 1.7      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 5         |         | 2          | 7  | 1.7      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 10        |         | 3          | 11 | 1.4      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 15        |         | 4          | 7  | 1.5      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 20        |         | 5          | 10 | 1.8      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 25        |         | 6          | 19 | 1.3      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 30        |         | 7          | 9  | 1.2      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 35        |         | 8          | 21 | 1.4      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 40        |         | 9          | 27 | 1.3      |             |                 |
|           |         |            |    |          |             |                 |

Drilled with CME-55, hollow, stem auger, 4" I.D.  
Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock.

Light brown fine to medium SAND, trace silt, damp.

Brown fine to medium SAND trace silt, moist.

Brown fine to medium SAND, fine to medium GRAVEL, trace silt.

Brown fine to medium SAND, trace silt, moist.

Brown fine to medium SAND, trace silt, trace fine gravel, moist.

Brown fine to medium SAND, trace silt, wet.

HOLE NO. 2-5 SURFACE ELEV. 333.6 DATE STARTED 7/22/86 BY SPS  
LOCATION NYSERDA-Malta SHEET 1 OF 2 DATE FINISHED 7/22/86 MISC.



## DESCRIPTIONS

HOLE NO. 2 - 5 SURFACE ELEV. 333.6 DATE STARTED 7/22/86 BY SPS  
 LOCATION NYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/22/86 MISC. \_\_\_\_\_



BLAIRLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

| DESCRIPTORS                                                                                                                                                                                                                |         |            |    |          |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|----|----------|-------------|
| DEPTH - FT.                                                                                                                                                                                                                | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN |
| 0                                                                                                                                                                                                                          |         | 1          | 11 | 1.4      |             |
| 5                                                                                                                                                                                                                          |         | 2          | 9  | 1.4      |             |
| 10                                                                                                                                                                                                                         |         | 3          | 6  | 1.5      |             |
| 15                                                                                                                                                                                                                         |         | 4          | 7  | 1.5      |             |
| 20                                                                                                                                                                                                                         |         | 5          | 6  | 1.4      |             |
| 25                                                                                                                                                                                                                         |         | 6          | 8  | 1.4      |             |
| 30                                                                                                                                                                                                                         |         | 7          | 15 | 1.6      |             |
| 35                                                                                                                                                                                                                         |         | 8          | 13 | 1.0      |             |
| 40                                                                                                                                                                                                                         |         |            |    |          |             |
| Boring terminated at 40'                                                                                                                                                                                                   |         |            |    |          |             |
| Drilled with CME-55, hollow stem auger, 4" I.D. Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock.                                                                                |         |            |    |          |             |
| Light brown fine to medium SAND, trace silt, damp.                                                                                                                                                                         |         |            |    |          |             |
| Brown fine to medium SAND, trace silt, damp.                                                                                                                                                                               |         |            |    |          |             |
| Brown to medium SAND, trace silt, moist.                                                                                                                                                                                   |         |            |    |          |             |
| Dark brown fine to medium SAND, trace silt, wet.                                                                                                                                                                           |         |            |    |          |             |
| 3' sump installed from 38.7' to 35.7', 2" PVC 6-slot screen installed from 35.7' to 20.7', riser to above grade. 20 sand pack from 38' to 15'. Bentonite pellets from 15' to 13'. Bentonite - Cement grout from 13' to 5'. |         |            |    |          |             |
| Cement grout from 5' to surface.                                                                                                                                                                                           |         |            |    |          |             |

HOLE NO. 3-5 SURFACE ELEV. 318.3 DATE STARTED 7/21/86 BY SPS  
LOCATION NYSEDA - Malta SHEET 1 OF 1 DATE FINISHED 7/21/86 MISC.



BLARLAND & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

| DESCRIPTIONS |         |            |    |          |                                                              |
|--------------|---------|------------|----|----------|--------------------------------------------------------------|
| DEPTH - FT.  | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN<br>GEOLOGIC COLUMN                               |
| 0            |         | 1          | 3  | 1.4      | Light brown fine to medium SAND, trace silt, damp.           |
| 5            |         | 2          | 9  | 1.3      | Brown fine to medium SAND, trace silt, damp.                 |
| 10           |         | 3          | 7  | 1.4      | Gray fine SAND, brown fine to medium SAND, trace silt, damp. |
| 15           |         | 4          | 12 | 1.3      |                                                              |
| 20           |         | 5          | 10 | 1.4      | Dark brown fine to medium SAND, trace silt, damp.            |
| 25           |         | 6          | 10 | 1.3      |                                                              |
| 30           |         | 7          | 18 | 1.3      |                                                              |
| 35           |         | 8          | 16 | 1.5      |                                                              |
| 40           |         | 9          | 20 | 1.6      | Dark brown fine SAND, (cont.)                                |

HOLE NO. 4 - 5 SURFACE ELEV. 326.1 DATE STARTED 7/17/86 BY SPS  
LOCATION NYSEDA - Malta SHEET 1 OF 2 DATE FINISHED 7/18/86 MISC.



BLAISLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS                                                                                                                                                                                                                                                   |
|-------------|---------|------------|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN                                                                                                                                                                                                                                                |
|             |         |            |    |          |             | trace silt, trace fine gravel, wet.                                                                                                                                                                                                                            |
| 45          |         | 10         | 27 | 2.0      |             | Dark brown fine SAND, trace silt, wet.                                                                                                                                                                                                                         |
| 50          |         | 11         | 17 | 1.6      |             | Boring terminated at 50'.                                                                                                                                                                                                                                      |
|             |         |            |    |          |             | 3' sump installed from 50' to 47' below grade, 2" PVC 6-slot screen installed from 47' to 32', riser to above grade. 20 sand pack from 50' to 27'. Bentonite pellets from 27' to 25'. Cement grout from 25' to 3' below grade. Cement grout from 3' to surface |

HOLE NO. 4 - 5 SURFACE ELEV. 326.1 DATE STARTED 7/17/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/18/86 MISC.





BLASLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

|           |         |            |    |          |             |                 | DESCRIPTIONS                                                                                                                                     |
|-----------|---------|------------|----|----------|-------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| DEPTH-FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |                                                                                                                                                  |
| 0         |         | 1          | 16 | 0.5      |             |                 | Drilled with CME - 55, hollow stem auger, 4" I.D.<br>Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock. |
|           |         |            |    |          |             |                 | Brown fine to medium SAND, trace silt, damp.                                                                                                     |
| 5         |         | 2          | 8  | 0.9      |             |                 | Light brown fine to medium SAND, trace silt, damp.                                                                                               |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 10        |         | 3          | 8  | 1.2      |             |                 | Brown fine to medium SAND, trace silt, damp.                                                                                                     |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 15        |         | 4          | 6  | 1.1      |             |                 |                                                                                                                                                  |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 20        |         | 5          | 10 | 1.2      |             |                 |                                                                                                                                                  |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 25        |         | 6          | 11 | 1.4      |             |                 |                                                                                                                                                  |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 30        |         | 7          | 10 | 1.3      |             |                 |                                                                                                                                                  |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 35        |         | 8          | 20 | 1.6      |             |                 | Dark brown fine to medium SAND, trace silt, wet.                                                                                                 |
|           |         |            |    |          |             |                 |                                                                                                                                                  |
| 40        |         | 9          |    |          |             |                 | Brown fine to medium sand, wet.                                                                                                                  |

HOLE NO. 10 - S SURFACE ELEV. 327.0 DATE STARTED 7/14/86 BY SPS  
LOCATION NYSEKDA - Malta SHEET 1 OF 2 DATE FINISHED 7/15/86 MISC



## DESCRIPTIONS

HOLE NO. 10 - 5 SURFACE ELEV. 327.0 DATE STARTED 7/14/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/15/86 MISC. \_\_\_\_\_



BLASLAND & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

| DEPTH - FT. | SAMPLES | SAMPLE NO. | Z | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN | DESCRIPTIONS                                                                                                                                                                                                                                                      |  |
|-------------|---------|------------|---|----------|-------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 0           |         |            |   |          |             |                 | <p>Drilled with Acker - 11 rig.<br/>Mud rotary to 45'. Driven<br/>4" casing method to 92'.<br/>Installed 4" steel surface<br/>casing with cement. Casing<br/>had cap and was secured<br/>with padlock.</p> <p>Refer to 10 - S<br/>for geology from 0' to 40'.</p> |  |
| 5           |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 10          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 15          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 20          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 25          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 30          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 35          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
| 40          |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |
|             |         |            |   |          |             |                 |                                                                                                                                                                                                                                                                   |  |

WELL NO. 10 - D SURFACE ELEV. 327.1 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 1 OF 3 DATE FINISHED 7/17/86 MISC.



BARLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

| DESCRIPTIONS |         |            |    |          |             |                                                         |
|--------------|---------|------------|----|----------|-------------|---------------------------------------------------------|
| DEPTH - FT.  | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN                                         |
| 45           |         | 1          | 25 | 1.6      |             | Brown very fine SAND and SILT.                          |
| 50           |         | 2          | 26 | 1.3      |             |                                                         |
| 55           |         | 3          | 21 | NR       |             | Brown SILT.                                             |
| 60           |         | 4          | 25 | 0.9      |             |                                                         |
| 65           |         | 5          | 72 | NR       |             |                                                         |
| 70           |         | 6          | 54 | NR       |             | Brown SILT and CLAY.                                    |
| 75           |         | 7          | 26 | 0.4      |             | Gray very fine SAND and SILT with varves of brown clay. |
| 80           |         | 8          | 8  | 2.0      |             | Blue - gray CLAY, little silt.                          |
| 85           |         | 9          | 26 | 1.7      |             | Blue - gray CLAY and SILT.                              |

HOLE NO. 10 - D SURFACE ELEV. 322.1 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSEDA - Malta SHEET 2 OF 3 DATE FINISHED 7/17/86 MISC.



### ***DESCRIPTIONS***

MOLE NO. 10 - D SURFACE ELEV 327.1 DATE STARTED 7/16/86 BY SPS  
LOCATION MYSERDA - Malta SHEET 3 OF 3 DATE FINISHED 7/17/86 MISC. \_\_\_\_\_

HOLE NO. 10 - D SURFACE ELEV. 327.1 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 3 OF 3 DATE FINISHED 7/17/86 MISC. \_\_\_\_\_



BLAISLAND & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS    |
|-------------|---------|------------|----|----------|-------------|-----------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 0           |         | 1          | 12 | 1.4      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 5           |         | 2          | 8  | 1.6      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 10          |         | 3          | 13 | 1.2      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 15          |         | 4          | 10 | 1.3      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 20          |         | 5          | 8  | 1.6      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 25          |         | 6          | 19 | 1.5      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 30          |         | 7          | 11 | 1.8      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 35          |         | 8          | 10 | 1.6      |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |
| 40          |         | 9          | 22 | 2.0      |             |                 |

Drilled with CME - SS, hollow stem auger, 4" I.D.  
Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock.

Light brown fine to medium SAND, trace silt, dry.

Brown fine to medium SAND, trace silt, damp.

Dark brown fine to medium SAND, trace silt, wet.

HOLE NO. 11 - S SURFACE ELEV. 317.4 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 1 OF 2 DATE FINISHED 7/17/86 MISC.



BLALOCK & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

| DESCRIPTIONS |         |            |          |             |                 |                                                                                                                                                                                                                                                                                                    |
|--------------|---------|------------|----------|-------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEPTH - FT.  | SAMPLES | SAMPLE NO. | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |                                                                                                                                                                                                                                                                                                    |
| 45           |         |            |          |             |                 | Boring terminated at 42'.<br>3' sump installed from 38' to 35' below grade, 2" PVC 6 - slot screen installed from 35' to 20', riser to above grade. 20 sand pack from 38' to 15'. Bentonite pellets from 15' to 12.5'. Bentonite - Cement grout from 12.5' to 6'. Cement grout from 6' to surface. |

HOLE NO. 11 - S SURFACE ELEV. 317.4 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/17/86 MISC.



BLAIR & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

|             |         |            |   |          |             | DESCRIPTIONS    |
|-------------|---------|------------|---|----------|-------------|-----------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 0           |         |            |   |          |             |                 |
| 5           |         |            |   |          |             |                 |
| 10          |         |            |   |          |             |                 |
| 15          |         |            |   |          |             |                 |
| 20          |         |            |   |          |             |                 |
| 25          |         |            |   |          |             |                 |
| 30          |         |            |   |          |             |                 |
| 35          |         |            |   |          |             |                 |
| 40          |         |            |   |          |             |                 |

Refer to 11 - S for geology from 0' to 42'.

- Drilled with Acker - 11 rig.
- Mud rotary to 45'. Driven 4" casing method to 77'.
- Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock.

HOLE NO. 11 - 0 SURFACE ELEV. 317.6 DATE STARTED 7/21/86 BY SPS  
LOCATION MYSEDA - Malta SHEET 1 OF 2 DATE FINISHED 7/22/86 MISC.





BLARLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS    |
|-------------|---------|------------|----|----------|-------------|-----------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 45          |         | 1          | 27 | 1.0      |             |                 |
|             |         |            |    |          |             |                 |
| 50          |         | 2          | 19 | 1.0      |             |                 |
|             |         |            |    |          |             |                 |
| 55          |         | 3          | 35 | 0.9      |             |                 |
|             |         |            |    |          |             |                 |
| 60          |         | 4          | 26 | 0.7      |             |                 |
|             |         |            |    |          |             |                 |
| 65          |         | 5          | 36 | NR       |             |                 |
|             |         |            |    |          |             |                 |
| 70          |         | 6          | 33 |          |             |                 |
|             |         |            |    |          |             |                 |
| 75          |         | 7          | 13 | 2.0      |             |                 |
|             |         |            |    |          |             |                 |
| 80          |         |            |    |          |             |                 |
|             |         |            |    |          |             |                 |

Brown very fine SAND,  
some silt.Brown very fine SAND,  
trace silt.Gray varved SILT  
and CLAY, some very fine sand.

Boring terminated at 77'.

3' sump installed from 75'  
to 72' below grade, 2" PVC  
6 - slot screen installed from  
72' to 62', riser to above  
grade.  
20 sand pack from 75' to 57'  
Bentonite pellets from 57' to 56'  
Bentonite - Cement grout from  
56' to 10'.  
Cement grout from 10' to surface.

HOLE NO. 11 - D SURFACE ELEV. 317.6 DATE STARTED 7/21/86 BY SPS  
LOCATION NYSEDA - Malta SHEET 2 OF 2 DATE FINISHED 7/27/86 MISC.



BLAIR & BOYCE ENGINEERS, P.C.

# SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS                                                                                                                                    |
|-------------|---------|------------|----|----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN                                                                                                                                 |
| 0           |         | 1          | 10 | 1.5      |             |                                                                                                                                                 |
| 5           |         | 2          | 8  | 1.3      |             |                                                                                                                                                 |
| 10          |         | 3          | 16 | 1.7      |             |                                                                                                                                                 |
| 15          |         | 4          | 6  | 1.4      |             |                                                                                                                                                 |
| 20          |         | 5          | 6  | 1.5      |             |                                                                                                                                                 |
| 25          |         | 6          | 6  | 1.4      |             |                                                                                                                                                 |
| 30          |         | 7          | 20 | 1.4      |             |                                                                                                                                                 |
| 35          |         | 8          | 20 | 2.0      |             |                                                                                                                                                 |
| 40          |         | 9          | 39 | 2.0      |             |                                                                                                                                                 |
|             |         |            |    |          |             | Drilled with ONE - 55, hollow stem auger, 4" I.D.<br>Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock |
|             |         |            |    |          |             | Light brown fine to medium SAND, trace silt, damp.                                                                                              |
|             |         |            |    |          |             | Dark brown fine to medium SAND, trace silt, damp.                                                                                               |
|             |         |            |    |          |             | Dark brown fine to medium sand, trace silt, wet.                                                                                                |
|             |         |            |    |          |             | Dark brown fine SAND.                                                                                                                           |

HOLE NO. 13-S SURFACE ELEV. 327.1 DATE STARTED 7/15/86 BY SPS  
LOCATION MYSEDA - Malta SHEET 1 OF 2 DATE FINISHED 7/16/86 MISC. \_\_\_\_\_



## DESCRIPTIONS

MOLE NO. 13 - 5 SURFACE ELEV 327.1 DATE STARTED 7/15/86 BY SRS  
LOCATION MYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/16/86 MISC. \_\_\_\_\_

HOLE NO. 13 - 5 SURFACE ELEV. 327.1 DATE STARTED 7/15/86 BY SRS  
 LOCATION NYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/16/86 MISC. \_\_\_\_\_



BLARLAND & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS    |
|-------------|---------|------------|----|----------|-------------|-----------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 0           |         |            |    |          |             |                 |
| 5           |         |            |    |          |             |                 |
| 10          |         |            |    |          |             |                 |
| 15          |         |            |    |          |             |                 |
| 20          |         |            |    |          |             |                 |
| 25          |         |            |    |          |             |                 |
| 30          |         |            |    |          |             |                 |
| 35          |         |            |    |          |             |                 |
| 40          |         |            |    |          |             |                 |
|             |         | 1          | 24 | 0.1      |             |                 |

Drilled with Acker - 11 rig.  
Mud rotary to 45'. Driven  
4" casing method to 72'.  
Installed 4" steel surface  
casing with cement. Casing  
had cap and was secured with padlock.

Refer to 13 - S for  
geology from 0' to 40'.

Brown Clayey SILT.

HOLE NO. 13 - D SURFACE ELEV. 327.1 DATE STARTED 7/18/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 1 OF 2 DATE FINISHED 7/21/86 MISC.



BLASLAND &amp; BOUCK ENGINEERS, P.C.

## SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS                                |
|-------------|---------|------------|----|----------|-------------|---------------------------------------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | Z  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN                             |
| 45          |         | 2          | 22 | 0.5      |             |                                             |
|             |         |            |    |          |             | Brown - gray SILT and trace very fine SAND. |
| 50          |         | 3          | 35 |          |             |                                             |
|             |         |            |    |          |             | Gray layered SILT, CLAY, and fine SAND.     |
| 55          |         | 4          | 30 |          |             |                                             |
|             |         |            |    |          |             | Gray fine SAND.                             |
| 60          |         | 5          | 33 | NR       |             |                                             |
| 65          |         | 6          | 44 | 0.8      |             |                                             |
|             |         |            |    |          |             | Gray very fine SAND, some silt.             |
| 70          |         | 7          | 40 | 0.9      |             |                                             |
|             |         |            |    |          |             | Boring terminated at 72'.                   |
| 75          |         |            |    |          |             |                                             |

3' sump installed from 70' to 67' below grade,  
2" PVC 6 - slot screen installed from 67' to 57'.  
riser to above grade.  
20 sand pack from 70' to 52'.  
Bentonite pellets from 52' to 50'.  
Bentonite - Cement grout from 50' to surface.

MOLE NO. 13 - D SURFACE ELEV. 327.3 DATE STARTED 7/18/86 BY SPS  
LOCATION MYSEDA - Malta SHEET 2 OF 2 DATE FINISHED 7/23/86 MISC.



BLAIRLAND & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS                                                                                                                                  |
|-------------|---------|------------|----|----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN                                                                                                                               |
| 0           |         | 1          | 10 | 1.5      |             |                                                                                                                                               |
| 5           |         | 2          | 8  | 1.3      |             |                                                                                                                                               |
| 10          |         | 3          | 16 | 1.7      |             |                                                                                                                                               |
| 15          |         | 4          | 6  | 1.4      |             |                                                                                                                                               |
| 20          |         | 5          | 6  | 1.5      |             |                                                                                                                                               |
| 25          |         | 6          | 6  | 1.4      |             |                                                                                                                                               |
| 30          |         | 7          | 20 | 1.4      |             |                                                                                                                                               |
| 35          |         | 8          | 20 | 2.0      |             |                                                                                                                                               |
| 40          |         | 9          | 39 | 2.0      |             |                                                                                                                                               |
|             |         |            |    |          |             | Drilled with CME - 55, hollow stem auger, 4" I.D. Installed 4" steel surface casing with cement. Casing had cap and was secured with padlock. |
|             |         |            |    |          |             | Light brown fine to medium SAND, trace silt, damp.                                                                                            |
|             |         |            |    |          |             | Dark brown fine to medium SAND, trace silt, damp.                                                                                             |
|             |         |            |    |          |             | Dark brown fine to medium sand, trace silt, wet.                                                                                              |
|             |         |            |    |          |             | Dark brown fine SAND.                                                                                                                         |

HOLE NO. 13 - S SURFACE ELEV. 327.1 DATE STARTED 7/15/86 BY SPS  
LOCATION NYSERDA - Malta SHEET 1 OF 2 DATE FINISHED 7/16/86 MISC.



## DESCRIPTIONS

HOLE NO. 13 - S SURFACE ELEV. 327.1 DATE STARTED 7/15/86 BY SBS  
LOCATION NYSERDA - Malta SHEET 2 OF 2 DATE FINISHED 7/16/86 MISC. \_\_\_\_\_

HOLE NO. 13 - S

**SURFACE ELEV 327.1**

**DATE STARTED**

7/15/86 BY

SPG

**LOCATION**

**NYSERDA - Malta**

**SHEET 2 OF**

2

**DATE** \_\_\_\_\_

**FINISHED**

7/16/86 MISC



MASLAND &amp; DOUCE ENGINEERS, P.C.

## SUBSURFACE LOG

|             |         |            |    |          |             | DESCRIPTIONS    |
|-------------|---------|------------|----|----------|-------------|-----------------|
| DEPTH - FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 0           |         | 1          | 9  | 1.1      |             |                 |
| 5           |         | 2          | 8  | 1.1      |             |                 |
| 10          |         | 3          | 6  | 1.4      |             |                 |
| 15          |         | 4          | 6  | 1.3      |             |                 |
| 20          |         | 5          | 12 | 1.2      |             |                 |
| 25          |         | 6          | 44 | 0.8      |             |                 |
| 30          |         | 7          | 28 | 0.7      |             |                 |
| 35          |         | 8          | 30 | 0.8      |             |                 |
| 40          |         | 9          | 34 | 0.7      |             |                 |

Drilled with Acker - II rig.  
Driven 4" casing method  
to 117'. Installed 4" steel  
surface casing with cement.  
Casing had cap and was  
secured with padlock.

Light brown fine SAND,  
trace silt, moist.

Brown fine SAND,  
trace silt, moist.

Brown fine SAND, silt  
lenses, trace medium gravel,  
moist.

Brown fine to medium SAND,  
trace silt, moist.

HOLE NO. 14 - D SURFACE ELEV. 339.2 DATE STARTED 7/14/86 BY SPS  
LOCATION NYSEDA - Malta SHEET 1 OF 3 DATE FINISHED 7/16/86 MISC.





BLALOCK & BOUCK ENGINEERS, P.C.

# SUBSURFACE LOG

|           |         |            |    |          |             | DESCRIPTIONS    |
|-----------|---------|------------|----|----------|-------------|-----------------|
| DEPTH-FT. | SAMPLES | SAMPLE NO. | N  | RECOVERY | WELL COLUMN | GEOLOGIC COLUMN |
| 45        |         | 10         | 22 | 0.9      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 50        |         | 11         | 28 | 1.0      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 55        |         | 12         | 33 | 0.4      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 60        |         | 13         | 37 | NR       |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 65        |         | 14         | 33 | 0.2      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 70        |         | 15         | 46 | 0.7      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 75        |         | 16         | 70 | 0.9      |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 80        |         | 17         | 41 | 0.1      | 4           |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
|           |         |            |    |          |             |                 |
| 85        |         | 18         | 47 | 0.7      |             |                 |
|           |         |            |    |          |             |                 |

HOLE NO. 14 - D SURFACE ELEV. 339.2 DATE STARTED 7/14/86 BY SPS  
LOCATION NYSEDA - Malta SHEET 2 OF 3 DATE FINISHED 7/16/86 MISC



### DESCRIPTIONS

MOLE NO. 14 - D SURFACE ELEV. 339.2 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSEFDA - Malta SHEET 3 OF 3 DATE FINISHED 7/16/86 MISC. \_\_\_\_\_

MOLE NO. 14 - D SURFACE ELEV. 339.2 DATE STARTED 7/16/86 BY SPS  
LOCATION NYSEFDA - Malta SHEET 3 OF 3 DATE FINISHED 7/16/86 MISC. \_\_\_\_\_

**DUNN GEOSCIENCE  
EARLY WARNING MONITORING SYSTEM  
GEOLOGIC LOGS**



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

## TEST BORING LOG

BORING No. DGC-15

|                     |  |  |  |                                     |  |         |  |        |  |                |  |               |  |        |             |  |
|---------------------|--|--|--|-------------------------------------|--|---------|--|--------|--|----------------|--|---------------|--|--------|-------------|--|
| PROJECT             |  |  |  | Malta Test Site                     |  | SHEET   |  | 1 OF 1 |  |                |  |               |  |        |             |  |
| CLIENT              |  |  |  | GE Malta                            |  | JOB No. |  |        |  | 2194-1-4935    |  |               |  |        |             |  |
| DRILLING CONTRACTOR |  |  |  | CATOH Environmental Companies, Inc. |  |         |  |        |  | MEAS PT. ELEV. |  | 324.07        |  |        |             |  |
| PURPOSE             |  |  |  | Monitoring Well Installation        |  |         |  |        |  | GROUND ELEV.   |  | 321.2         |  |        |             |  |
| DRILLING METHOD     |  |  |  | Hollow Stem Auger                   |  | SAMPLE  |  | CORE   |  | CASING         |  | DATUM         |  | M.S.L. |             |  |
| DRILL ROD TYPE      |  |  |  | CME-75/Truck                        |  | TYPE    |  |        |  | H.S.A.         |  | DATE STARTED  |  |        | 5/12/87     |  |
| GROUNDWATER DEPTH   |  |  |  | 41.3                                |  | DIA.    |  |        |  | 4 1/2" ID      |  | DATE FINISHED |  |        | 5/13/87     |  |
| MEASURING POINT     |  |  |  | Top of PVC                          |  | WEIGHT  |  |        |  |                |  | DRILLER       |  |        | B. Buchanon |  |
| DATE OF MEASUREMENT |  |  |  | 6/2/87                              |  | FALL    |  |        |  |                |  | INSPECTOR     |  |        | Alan Hall   |  |

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNITED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION             | REMARKS |
|----------|---------------|------------------------------|-----------------------|-------------|----------------------------------|---------|
| 5        |               |                              |                       |             | No Samples Taken                 |         |
|          |               |                              |                       |             | Bottom of Boring = 58.5'         |         |
|          |               |                              |                       |             | 0.010 slot screen 38.0-58.0'     |         |
|          |               |                              |                       |             | 00 Sand 37.0-58.5'               |         |
|          |               |                              |                       |             | Bentonite Pellets 35.0-37.0'     |         |
|          |               |                              |                       |             | Cement/Bentonite Grout 0.0-35.0' |         |
| 10       |               |                              |                       |             |                                  |         |

Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

**BORING No.** DGC-1D

|                                                         |        |        |      |                     |                       |
|---------------------------------------------------------|--------|--------|------|---------------------|-----------------------|
| PROJECT Malta Test Site                                 |        |        |      | SHEET 1 OF 4        |                       |
| CLIENT GE Malta                                         |        |        |      | JOB No 2194-1-4935  |                       |
| DRILLING CONTRACTOR CATOH Environmental Companies, Inc. |        |        |      | MEAS PT ELEV 323.33 |                       |
| PURPOSE Monitoring Well Installation                    |        |        |      | GROUND ELEV 321.2   |                       |
| DRILLING METHOD Hollow Stem Auger                       |        | SAMPLE | CORE | CASING              | CATUM M.S.L.          |
| DRILL RIG TYPE CME-75/ATV                               | TYPE   | SS     |      | HSA                 | DATE STARTED 5/7/87   |
| GROUNDWATER DEPTH 44.3                                  | DIA    | 2" OD  |      | 4 1/2" ID           | DATE FINISHED 5/12/87 |
| MEASURING POINT Top of PVC                              | WEIGHT | 140#   |      |                     | DRILLER D. Barrow     |
| DATE OF MEASUREMENT 6/2/87                              | FALL   | 30"    |      |                     | INSPECTOR Al Hall     |

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                                | REMARKS                                                              |
|----------|---------------|------------------------------|------------------------|-------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|          | S-1           | 1<br>2<br>2<br>2             | SP                     |             | Dk br f S, t \$; orgs, rts<br>-0.65<br>Tn f S, t \$                                 | Rec=2.0'<br>Damp                                                     |
| 5        | S-2           | 4<br>4<br>5<br>6             | SP                     |             | Br mf S                                                                             | Rec=1.6'<br>Damp                                                     |
| 10       | S-3           | 6<br>9<br>9<br>12            | SP                     |             | Br m(-)f S<br>-9.45<br>Lt br m(-)f S<br><u>Light brown medium (-) to fine SAND.</u> | Rec=1.65'<br>Damp<br><br>Stop augers @ 14'<br>5/7/87<br>Start 5/8/87 |
| 15       | S-4           | 2<br>2<br>2<br>2             | SP                     |             | Lt br mf S                                                                          | Rec=1.5'<br>Moist                                                    |
| 20       | S-5           | 5<br>11                      |                        |             | (LACUSTRINE)                                                                        |                                                                      |



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-10

PROJECT Malta Test Site

SHEET 2 OF 4

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                      | REMARKS      |
|----------|---------------|------------------------------|------------------------|-------------|-------------------------------------------|--------------|
|          |               | 12                           | SW                     |             | Lt br c(-)mfS                             | Rec=1.3      |
|          |               | 35                           |                        |             |                                           | Moist        |
|          |               |                              |                        |             |                                           | Tight sands  |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
| 25       |               |                              |                        |             |                                           |              |
|          |               | 5                            |                        |             |                                           |              |
|          | S-6           | 6                            | SP                     |             | Lt br mf S                                | Rec=1.35     |
|          |               | 6                            |                        |             |                                           | Moist        |
|          |               | 6                            |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
| 30       |               | 1                            |                        |             | Same                                      |              |
|          | S-7           | 2                            | SP                     |             | -29.7                                     |              |
|          |               | 2                            |                        |             | Lt br f S, t \$                           |              |
|          |               | 5                            |                        |             |                                           | Rec=1.4      |
|          |               |                              |                        |             | <u>Light brown fine SAND, trace Silt.</u> | Moist        |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
| 35       |               | 1                            |                        |             | Same                                      |              |
|          | S-8           | 2                            | SP                     |             | -34.8                                     | Rec=1.3      |
|          |               | 2                            |                        |             | Br f S                                    | Moist        |
|          |               | 3                            |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           | Water @ 39.0 |
| 40       |               | 1                            |                        |             |                                           |              |
|          | S-9           | 1                            | SP                     |             | Br f S, t \$                              | Rec=1.2      |
|          |               | 2                            |                        |             |                                           | WET          |
|          |               | 4                            |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          |               |                              |                        |             |                                           |              |
|          | S-10          | 1                            |                        |             |                                           |              |
|          |               | 2                            |                        |             | (LACUSTRINE)                              |              |

PROJECT Malta Test Site

SHEET 3 OF 4

CLIENT GE Malta

JOB No. 2194-1-4935

[illegible]



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-10

PROJECT Malta Test Site

SHEET 4 OF 4

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE<br>SAMPLE SPOON<br>PER 6" | UNIFIED<br>CLASSI<br>FICATION | GRAPHIC<br>LOG | GEOLOGIC DESCRIPTION                                                                                | REMARKS                                                                                                                |
|----------|---------------|-------------------------------------------|-------------------------------|----------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|          | S-15          | 11<br>11                                  | ML                            |                | Gr \$                                                                                               | Rec=0.75<br>WET<br>wash in<br>hole                                                                                     |
| 75       | S-16          | 4<br>7<br>14<br>23                        | ML                            |                | Same                                                                                                | Rec=1.15<br>WET<br><br>3' silt in<br>augers; stop<br>5/8/87<br>5/9/87 wash<br>hole cont.<br>augering<br>Rec=1.6<br>WET |
| 80       | S-17          | 13<br>7<br>12<br>18                       | ML                            |                | Gr \$ & Cy\$<br>-79.17<br><br>Gr \$                                                                 | Rec=1.55<br>WET                                                                                                        |
|          | S-18          | 12<br>19<br>33<br>42                      | ML                            |                | Gr Cy\$<br>-81.75<br><br>Gr \$; 1 C                                                                 |                                                                                                                        |
| 85       | S-19          | 9<br>15<br>12<br>18                       |                               |                | Gr \$; s br \$                                                                                      | Rec=1.8<br>WET                                                                                                         |
| 90       | S-20          | 4<br>12<br>20<br>32                       |                               |                | Gr \$ 1, f S<br><br>(LACUSTRINE)<br>Bottom of Boring = 91.0'                                        | Wash to 89'<br>Rec=2.0<br>WET<br><br>58.0 - 78.0'<br>55.5 - 78.5'<br>53.5 - 55.5'<br>0 - 53.5'<br>78.0 - 91.0'         |
|          |               |                                           |                               |                | 0.010 slot screen<br>00 Sand<br>Bentonite Pellets<br>Cement/Bentonite Grout<br>Formational Collapse |                                                                                                                        |



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-25

|         |                 |
|---------|-----------------|
| PROJECT | Malta Test Site |
|---------|-----------------|

SHEET OF 1

CLIENT GE Malta

JOB No 2194-1-4935

OF THE CONTRACTOR CATOH Environmental Companies, Inc.

MEAS = ELE. 309.62

Monitoring Well Installation

|            |       |
|------------|-------|
| BRAND F.F. | 307.5 |
|------------|-------|

22 40 WET-20 Hollow Stem Auger

| SAMPLE | CORE | DATING |
|--------|------|--------|
|--------|------|--------|

|      |        |
|------|--------|
| DATE | M.S.L. |
|------|--------|

CME-75 Truck

| TYPE | H.S.A. |
|------|--------|
|------|--------|

DATE STARTED 5/14/87

GROUNDWATER DEPTH 26.0

CIA 44-11 ID

DATE FINISHED 5/15/87

MEASUREMENT POINT Top of PVC

WE CH-

CRILLER      B. Buchanan

DATE OF MEASUREMENT 6/2/87

FALL

INSPECTOR Alan Hall

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION |
|----------|---------------|------------------------------|------------------------|
| 0        |               |                              |                        |
| 1        |               |                              |                        |
| 2        |               |                              |                        |
| 3        |               |                              |                        |
| 4        |               |                              |                        |
| 5        |               |                              |                        |
| 6        |               |                              |                        |
| 7        |               |                              |                        |
| 8        |               |                              |                        |
| 9        |               |                              |                        |
| 10       |               |                              |                        |
| 11       |               |                              |                        |
| 12       |               |                              |                        |
| 13       |               |                              |                        |
| 14       |               |                              |                        |
| 15       |               |                              |                        |
| 16       |               |                              |                        |
| 17       |               |                              |                        |
| 18       |               |                              |                        |
| 19       |               |                              |                        |
| 20       |               |                              |                        |
| 21       |               |                              |                        |
| 22       |               |                              |                        |
| 23       |               |                              |                        |
| 24       |               |                              |                        |
| 25       |               |                              |                        |
| 26       |               |                              |                        |
| 27       |               |                              |                        |
| 28       |               |                              |                        |
| 29       |               |                              |                        |
| 30       |               |                              |                        |
| 31       |               |                              |                        |
| 32       |               |                              |                        |
| 33       |               |                              |                        |
| 34       |               |                              |                        |
| 35       |               |                              |                        |
| 36       |               |                              |                        |
| 37       |               |                              |                        |
| 38       |               |                              |                        |
| 39       |               |                              |                        |
| 40       |               |                              |                        |
| 41       |               |                              |                        |
| 42       |               |                              |                        |
| 43       |               |                              |                        |
| 44       |               |                              |                        |
| 45       |               |                              |                        |
| 46       |               |                              |                        |
| 47       |               |                              |                        |
| 48       |               |                              |                        |
| 49       |               |                              |                        |
| 50       |               |                              |                        |
| 51       |               |                              |                        |
| 52       |               |                              |                        |
| 53       |               |                              |                        |
| 54       |               |                              |                        |
| 55       |               |                              |                        |
| 56       |               |                              |                        |
| 57       |               |                              |                        |
| 58       |               |                              |                        |
| 59       |               |                              |                        |
| 60       |               |                              |                        |
| 61       |               |                              |                        |
| 62       |               |                              |                        |
| 63       |               |                              |                        |
| 64       |               |                              |                        |
| 65       |               |                              |                        |
| 66       |               |                              |                        |
| 67       |               |                              |                        |
| 68       |               |                              |                        |
| 69       |               |                              |                        |
| 70       |               |                              |                        |
| 71       |               |                              |                        |
| 72       |               |                              |                        |
| 73       |               |                              |                        |
| 74       |               |                              |                        |
| 75       |               |                              |                        |
| 76       |               |                              |                        |
| 77       |               |                              |                        |
| 78       |               |                              |                        |
| 79       |               |                              |                        |
| 80       |               |                              |                        |
| 81       |               |                              |                        |
| 82       |               |                              |                        |
| 83       |               |                              |                        |
| 84       |               |                              |                        |
| 85       |               |                              |                        |
| 86       |               |                              |                        |
| 87       |               |                              |                        |
| 88       |               |                              |                        |
| 89       |               |                              |                        |
| 90       |               |                              |                        |
| 91       |               |                              |                        |
| 92       |               |                              |                        |
| 93       |               |                              |                        |
| 94       |               |                              |                        |
| 95       |               |                              |                        |
| 96       |               |                              |                        |
| 97       |               |                              |                        |
| 98       |               |                              |                        |
| 99       |               |                              |                        |
| 100      |               |                              |                        |

GRAPHIC  
LOG

GEOLOGIC DESCRIPTION

25420

No Samples Taken

Bottom of Boring = 35.5'

0.010 slot screen 20.0-35.0'

|         |            |
|---------|------------|
| 00 Sand | 17.5-35.5' |
|---------|------------|

|                   |            |
|-------------------|------------|
| Bentonite Pellets | 15.0-17.5' |
|-------------------|------------|

|                        |           |
|------------------------|-----------|
| Cement/Bentonite Grout | 0.0-15.0' |
|------------------------|-----------|



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-2D

PROJECT Malta Test Site

SHEET 1 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

DRILLING CONTRACTOR CATOH Environmental Companies, Inc.

MEAS PT ELEV 310.05

PURPOSE Monitoring Well Installation

GROUND ELEV 307.5

DRILLING METHOD Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM M.S.L.

DRILL RIG TYPE CME-75/Truck

TYPE

SS

HSA

DATE STARTED 5/14/87

GROUNDWATER DEPTH 26.7

DIA

2"

4 1/2"

DATE FINISHED 5/14/87

MEASURING POINT Top of PVC

WEIGHT

140#

DRILLER B. Buchanan

DATE OF MEASUREMENT 6/1/87

FALL

30"

INSPECTOR Al Hall

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                        | REMARKS                               |
|----------|---------------|------------------------------|------------------------|-------------|---------------------------------------------|---------------------------------------|
|          | S-1           | 1                            |                        |             | Lt br mf S, t \$; rts                       | Dry<br>Rec=0.7                        |
|          |               | 2                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
| 5        |               |                              |                        |             | Lt br mf S                                  | Dry<br>Rec=1.6<br>Coarser near bottom |
|          | S-2           | 2                            |                        |             |                                             |                                       |
|          |               | 3                            |                        |             |                                             |                                       |
|          |               | 3                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
| 10       |               |                              |                        |             | Lt br m(+)f S                               | Dry<br>Rec=1.5                        |
|          | S-3           | 2                            |                        |             | <u>Light brown medium (+) to fine SAND.</u> |                                       |
|          |               | 3                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
| 15       |               |                              |                        |             | Lt br mf S, t \$                            | Dry<br>Rec=1.35                       |
|          | S-4           | 2                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
|          |               | 2                            |                        |             |                                             |                                       |
|          |               | 4                            |                        |             |                                             |                                       |
|          |               |                              |                        |             |                                             |                                       |
|          |               |                              |                        |             |                                             |                                       |
|          |               |                              |                        |             |                                             |                                       |
| 20       |               |                              |                        |             | (LACUSTRINE)                                |                                       |



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-20

PROJECT Malta Test Site

SHEET 2 OF 3

CLIENT GE Malta

JOB No 2194-4935

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNITED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                                                       | REMARKS                          |
|----------|---------------|------------------------------|-----------------------|-------------|------------------------------------------------------------------------------------------------------------|----------------------------------|
|          | S-5           | 1<br>4<br>4<br>7             |                       |             | Br mf S, t s<br>-20.2<br>Br s & c<br>-20.6<br>Lt br f S, l s<br><u>Light brown fine SAND, little Silt.</u> | Rec=1.5<br>WET/Dry               |
| 25       | S-6           | 4<br>4<br>4<br>4             |                       |             | Same                                                                                                       | Water @ 24.5'<br>Rec=1.65<br>WET |
| 30       | S-7           | 2<br>2<br>2<br>3             |                       |             | Same                                                                                                       | Rec=1.8<br>WET                   |
| 35       | S-8           | 4<br>5<br>7<br>8             |                       |             | Same                                                                                                       | Rec=1.3<br>WET                   |
| 40       | S-9           | 4<br>4<br>6<br>8             |                       |             | Same; s & c parting                                                                                        | Rec=1.5<br>WET                   |
|          |               |                              |                       |             | (LACUSTRINE)                                                                                               |                                  |



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# TEST BORING LOG

BORING No. DGC-2D

PROJECT Malta Test Site

SHEET 3 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIT CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                                                                            | REMARKS                                                                   |
|----------|---------------|------------------------------|---------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|          | S-10          | 2<br>3<br>4<br>4             |                     |             | Same                                                                                                                            | Rec=1.7<br>WET                                                            |
| 50       | S-11          | 4<br>6<br>10<br>11           |                     |             | Same                                                                                                                            | Rec=1.6<br>WET                                                            |
|          |               |                              |                     |             |                                                                                                                                 | Tight<br>Driller notes<br>change @ 53'                                    |
| 55       | S-12          | 3<br>5<br>6<br>8             |                     |             | Gr Cy\$ & \$<br>-55.85<br>Gr f S, s \$                                                                                          | Rec=1.4<br>WET                                                            |
|          | S-13          | 8<br>12<br>16<br>18          |                     |             | Gr Cy\$                                                                                                                         | Rec=1.7<br>WET                                                            |
|          |               |                              |                     |             | (LACUSTRINE)                                                                                                                    |                                                                           |
| 60       |               |                              |                     |             | Bottom of Boring = 59.0'<br>Formational Collapse<br>.010" slot screen<br>00 Sand<br>Bentonite Pellets<br>Cement/Bentonite Grout | 55.0 - 59.0'<br>35.0 - 55.0'<br>33.0 - 55.5'<br>30.0 - 33.0'<br>0 - 30.0' |

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# TEST BORING LOG

**BORING No. DGC-2SX**

|                     |  |                   |                                     |                     |           |
|---------------------|--|-------------------|-------------------------------------|---------------------|-----------|
| PROJECT             |  |                   | Malta Test Site                     | SHEET 1 OF 1        |           |
| CLIENT              |  |                   | GE Malta                            | JOB No. 2194-1-4935 |           |
| DRILLING CONTRACTOR |  |                   | CATCH Environmental Companies, Inc. | MEASUREMENT         |           |
| PURPOSE             |  |                   | Monitoring Well Installation        | GROUND ELEV.        |           |
| DRILLING METHOD     |  | Hollow Stem Auger | SAMPLE                              | COPE                | CASING    |
| DRILL ROD TYPE      |  | CME-75/ATV        | TYPE                                |                     | H.S.A.    |
| GROUNDWATER DEPTH   |  |                   | DIA                                 |                     | 4 1/2" ID |
| MEASURING POINT     |  |                   | WEIGHT                              |                     |           |
| DATE OF MEASUREMENT |  |                   | FALL                                |                     |           |
|                     |  |                   | DRILLER                             |                     | D. Barrow |
|                     |  |                   | INSPECTOR                           |                     | Alan Hall |

| DEPTH FT | SAMPLE NUMBER | BLOWS, OR SAMPLE SPOON PER 6" | UNIT CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                                                                                              | REMARKS |
|----------|---------------|-------------------------------|---------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|          |               |                               |                     |             | No Samples Taken<br>Bottom of boring = 35.5'<br>Hole abandoned 5/5/87; Tremie hose caught in boring due to running sands; hole grouted to surface |         |



Dunn Geoscience Corp  
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# TEST BORING LOG

BORING No. DGC-2DX

PROJECT Malta Test Site

SHEET 1 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

DRILLING CONTRACTOR CATOH Environmental Companies, Inc.

MEAS PT ELEV

PURPOSE Monitoring Well Installation

GROUND ELEV

DRILLING METHOD Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

DRILL RIG TYPE CME-75/ATV

TYPE

SS

HSA

DATE STARTED 4/30/87

GROUNDWATER DEPTH

DIA

2" OD

4 1/2" ID

DATE FINISHED 5/5/87

MEASURING POINT

WEIGHT

140#

DRILLER Denny Barrow

DATE OF MEASUREMENT

FALL

30"

INSPECTOR Al Hall

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                        | REMARKS           |
|----------|---------------|------------------------------|------------------------|-------------|-----------------------------------------------------------------------------|-------------------|
|          | S-1           | 1<br>1<br>1<br>1             | SP                     |             | Dk br m(-)f S; orgs<br>-0.45<br>Lt br m(-)f S; orgs                         | Rec=2.0<br>Dry    |
| 5        | S-2           | 3<br>4<br>4<br>6             | SW                     |             | Lt br c(-)m(+)f S                                                           | Rec=2.0<br>Dry    |
| 10       | S-3           | 2<br>3<br>4<br>4             | SW                     |             | Lt br c(-)m(+)f S<br><u>Light brown coarse (-) medium (+) to fine SAND.</u> | Rec=1.68<br>Moist |
| 15       | S-4           | 1<br>2<br>3<br>4             | SW                     |             | Same                                                                        | Rec=1.55<br>Moist |
| 20       | S-5           | 2<br>4                       |                        |             | (LACUSTRINE)                                                                |                   |

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# TEST BORING LOG

**BORING No.** DGC-2EX

|         |                 |
|---------|-----------------|
| PROJECT | Malta Test Site |
|---------|-----------------|

SHEET 2 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH FT | SAMPLE NUMBER | FEET IN, OR SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                            | REMARKS                                  |
|----------|---------------|---------------------------------|------------------------|-------------|---------------------------------------------------------------------------------|------------------------------------------|
|          | S-5           | 6<br>8                          | SW                     |             | Same                                                                            | Rec=1.45<br>Moist                        |
| 25       | S-6           | 1<br>4<br>6<br>10               | SW                     |             | Br c(-)m(+)f S<br><u>Brown coarse (-) medium (+) to fine SAND.</u>              | Rec=1.4<br>WET                           |
| 30       | S-7           | 2<br>4<br>6<br>9                | SW                     |             | Br mf S                                                                         | Rec=2.0<br>WET                           |
| 35       | S-8           | 2<br>6<br>13<br>20              | SP/CL                  |             | Br f S, 1 \$<br>-34.92<br>Br C & \$; freq S & \$ prts<br>-35.42<br>Br f S, 1 \$ | Rec=2.0<br>WET                           |
| 40       | S-9           | 1<br>2<br>2<br>3                | SP                     |             | Same                                                                            | Rec=2.0<br>WET                           |
|          | S-10          | rod wt<br>rod wt                |                        |             | (LACUSTRINE)                                                                    | Stop @ 44'<br>4/30<br>Start again<br>5/1 |



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# TEST BORING LOG

BORING No. DGC-2DX

PROJECT Malta Test Site

SHEET 3 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH<br>FT | SAMPLE<br>NUMBER | BLOWS ON<br>SAMPLE<br>SPOON<br>PER 6" | UNIFIED<br>CLASSI-<br>FICATION | GRAPHIC<br>LOG | GEOLOGIC DESCRIPTION                                                                                                                                                                            | REMARKS                                                   |
|-------------|------------------|---------------------------------------|--------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|             | S-10             | 2<br>3                                | SP                             |                | Same                                                                                                                                                                                            | Rec=1.45'<br>WET                                          |
| 50          | S-11             | 2<br>5<br>5<br>6                      | SP/CL                          |                | Same<br>-49.3<br>Br \$ & C; s prts<br>-49.7<br>Br f S, 1 \$                                                                                                                                     | Rec=1.4<br>WET                                            |
| 55          | S-12             | 2<br>6<br>6<br>12                     | CL                             |                | Same<br>-55.12<br>Gr \$ & C; vvd \$ seams                                                                                                                                                       | Rec=2.0<br>WET                                            |
|             | S-13             | 5<br>10<br>12<br>24                   | CL                             |                | Same<br><br>(LACUSTRINE)                                                                                                                                                                        | Rec=0.75<br>WET                                           |
| 60          |                  |                                       |                                |                | 0.010 slot screen<br>00 Sand<br>Bentonite pellets<br>Cement/Bentonite Grout<br>Hole abandoned 5/5/87 due to tremie hose<br>in DGC-2SX; well grouted to surface;<br>50' PVC well remains in hole | 35.0 - 55.0'<br>33.7 - 55.5'<br>31.0 - 33.7'<br>0 - 31.0' |



Dunn Geoscience Corp  
Albany, NY 12205 518/458-1313

# TEST BORING LOG

**BORING No.** DGC-3S

|         |                 |
|---------|-----------------|
| PROJECT | Malta Test Site |
|---------|-----------------|

SHEET 1 OF 1

CLIENT GE Malta

JOB No 2194-1-4935

DEVELOPING CONTRACTOR CATOH Environmental Companies, Inc.

MEAS -- ELEV. 215.28

PROJECT Monitoring Well Installation

GROUND ELEV. 212.6

DRILLING METHOD-00 Hollow Stem Auger

SAMPLE

111

74325

027-4

M.S.L.

ORILLAS DE CME-75/ATV

TYPE

H.S.A.

DATE: 11/1/88

5/7/87

GROUNDWATER DEPTH 12.1

DIA.

4 1/2" ID

DATE 7-1-50

5/7/87

MEASURING POINT Top of PVC

WE CH-

CRILEP

D. Barrow

DATE OF MEASUREMENT 5/29/87

FALL

INSPECTOR

Alan Hall

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPT/IN PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION            | REMARKS |
|----------|---------------|-------------------------------|------------------------|-------------|---------------------------------|---------|
|          |               |                               |                        |             | No Samples Taken                |         |
|          |               |                               |                        |             | Bottom of boring = 23.5'        |         |
|          |               |                               |                        |             | 0.010" slot screen 5.0-23.0'    |         |
|          |               |                               |                        |             | 00 Sand 4.5-23.5'               |         |
|          |               |                               |                        |             | Bentonite Pellets 35.0-37.0'    |         |
|          |               |                               |                        |             | Cement/Bentonite Grout 0.0-4.5' |         |

Dunn Geoscience Corp  
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# TEST BORING LOG

**BORING No.** DGC-3D

PROJECT Malta Test Site

SHEET 1 OF 3

CLIENT GE Malta

JCB No 2194-1-4935

DRILLING CONTRACTOR CATOH Environmental Companies, Inc.

MEAS PT ELEV 215.02

PURPOSE Monitoring Well Installation

GROUND ELEV. 212.6

DRILLING METHOD Hollow Stem Auger

SAMPLE

0000

## CASING

 $Ca^{2+}$ -M

M.S.L.

DRILL RIG TYPE CME-75/ATV

TYPE

SS

HSA

C A T S' A R E

5/6/87

GROUNDWATER DEPTH 11.4

DIA

2"

44"

DATE 12/15/10

5/6/87

MEASURING POINT Top of PVC

WEIGHT

140#

DRILLER

Denny Barrow

DATE OF MEASUREMENT 6/1/87

FALL

30''

INSPECTOR

Al Hall

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                | REMARKS                              |
|----------|---------------|------------------------------|------------------------|-------------|-----------------------------------------------------|--------------------------------------|
|          | S-1           | 2<br>3<br>2<br>2             |                        |             | Br mf(+) S; frqt rts                                | Rec=1.05<br>Dry/Damp                 |
| 5        | S-2           | 4<br>4<br>5<br>5             |                        |             | Lt br mf (+) S, t \$                                | Rec=1.45<br>V. Moist<br>Water @ 5.5' |
| 10       | S-3           | 1<br>2<br>2<br>3             |                        |             | Br f S, t \$<br><u>Brown fine SAND, trace Silt.</u> | Rec=1.65<br>WET                      |
|          |               |                              |                        |             | (LACUSTRINE)                                        |                                      |
| 15       | S-4           | 1<br>1<br>2<br>3             |                        |             | Same<br>-15.9 Br f S, a(-) mf G                     | Rec=2.0<br>WET                       |
| 20       | S-5           | 3<br>4                       |                        |             | Br cmfS, tfG<br>-19.67                              |                                      |



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## TEST BORING LOG

BORING No. DGC-3D

PROJECT Malta Test Site

SHEET 2 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                              | REMARKS                                                                                          |
|----------|---------------|------------------------------|------------------------|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|          | S-5           | 7<br>12                      |                        |             | Br mf G a(-), cm S<br>Brown medium to fine GRAVEL and (-), coarse to medium Sand. | Rec=1.25<br>WET                                                                                  |
|          |               |                              |                        |             | (FLUVIAL)                                                                         |                                                                                                  |
|          |               |                              |                        |             | Gr c; vvd                                                                         | Rec=1.35<br>Moist<br>PP=1.25 ton/ft <sup>2</sup><br>Driller notes augering changes at 24' (clay) |
| 25       | S-6           | 2<br>3<br>4<br>8             |                        |             | Same                                                                              | Rec=1.75<br>Moist<br>PP=1.0 ton/ft <sup>2</sup>                                                  |
| 30       | S-7           | 4<br>3<br>7<br>8             |                        |             | Gr \$yC & C                                                                       | Rec=1.9<br>Moist<br>Less Stiff<br>PP=0.75 ton/ft <sup>2</sup>                                    |
| 35       | S-8           | 3<br>3<br>4<br>6             |                        |             | Same                                                                              | Rec=2.0<br>Moist<br>Less Stiff<br>PP=0.65 ton/ft <sup>2</sup>                                    |
| 40       | S-9           | 3<br>4<br>6<br>11            |                        |             |                                                                                   |                                                                                                  |
|          |               |                              |                        |             | Rd Gr \$yC & C; frqt Gr and Bl Gr partings                                        |                                                                                                  |
|          | S-10          | 2<br>5                       |                        |             |                                                                                   |                                                                                                  |

Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

**BORING No.** DGC-3D

|         |                 |
|---------|-----------------|
| PROJECT | Malta Test Site |
|---------|-----------------|

SHEET 3 OF 3

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH - FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION     | REMARKS                     |
|------------|---------------|------------------------------|------------------------|-------------|--------------------------|-----------------------------|
|            | S-10          | 9                            |                        |             | (LACUSTRINE)             | Rec=2.0                     |
|            |               | 11                           |                        |             |                          | Moist                       |
|            |               |                              |                        |             |                          | Less Stiff                  |
|            |               |                              |                        |             | Bottom of Boring = 46.5' | PP=1.25 ton/ft <sup>2</sup> |
|            |               |                              |                        |             | .010" Slot Screen        | 26.0 - 46.0'                |
|            |               |                              |                        |             | 00 Sand                  | 25.0 - 46.5'                |
|            |               |                              |                        |             | Bentonite Pellets        | 23.0 - 25.0'                |
|            |               |                              |                        |             | Cement/Bentonite Grout   | 0 - 23.0'                   |
| 50         |               |                              |                        |             |                          |                             |



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-4DX

|                                                         |  |        |        |      |                    |                       |
|---------------------------------------------------------|--|--------|--------|------|--------------------|-----------------------|
| PROJECT Malta Test Site                                 |  |        |        |      | SHEET 1 OF 2       |                       |
| CLIENT GE Malta                                         |  |        |        |      | JOB No 2194-1-4935 |                       |
| DRILLING CONTRACTOR CATOH Environmental Companies, Inc. |  |        |        |      | MEAS PT ELEV       |                       |
| PURPOSE Monitoring Well Installation                    |  |        |        |      | GROUND ELEV        |                       |
| DRILLING METHOD Hollow Stem Auger                       |  |        | SAMPLE | CORE | CASING             | DATUM                 |
| DRILL RIG TYPE CME-75/ATV                               |  | TYPE   | SS     |      | HSA                | DATE STARTED 4/29/87  |
| GROUNDWATER DEPTH                                       |  | DIA    | 2"     |      | 4 1/2"             | DATE FINISHED 4/30/87 |
| MEASURING POINT                                         |  | WEIGHT | 140#   |      |                    | DRILLER Denny Barrow  |
| DATE OF MEASUREMENT                                     |  | FALL   | 30"    |      |                    | INSPECTOR Al Hall     |

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPOON PER 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                        | REMARKS                                                          |
|----------|---------------|------------------------------|------------------------|-------------|-------------------------------------------------------------|------------------------------------------------------------------|
|          | S-1           | 1                            | SW                     |             | Dk to lt br mf (+) S, l \$, l F G; orgs.                    | Rec=1.5<br>Moist                                                 |
| 5        | S-2           | 2                            | ML                     |             | Br \$ & C; freq prt f S                                     | Rec=1.9<br>Moist                                                 |
| 10       | S-3           | 3                            | CL                     |             | Gr Cy\$<br>-11.1<br>Gr \$ & C<br><u>Gray SILT and CLAY.</u> | Rec=2.0<br>WET<br>PP=1.25 ton/ft <sup>2</sup>                    |
| 15       | S-4           | 1                            | CL                     |             | Same                                                        | Augers @ 15' 4/29<br>Rec=2.0<br>WET<br>Continue augering<br>4/30 |
| 20       |               |                              |                        |             | (LACUSTRINE)                                                |                                                                  |



Dunn Geoscience Corp  
Albany, NY 12205 (518)458-1313

# TEST BORING LOG

BORING No. DGC-4DX

PROJECT Malta Test Site

SHEET 2 OF 2

CLIENT GE Malta

JOB No 2194-1-4935

| DEPTH FT | SAMPLE NUMBER | BLOWS ON SAMPLE SPT/IN FT R 6" | UNIFIED CLASSIFICATION | GRAPHIC LOG | GEOLOGIC DESCRIPTION                                                         | REMARKS             |
|----------|---------------|--------------------------------|------------------------|-------------|------------------------------------------------------------------------------|---------------------|
|          |               | 1                              | CL                     |             | Same                                                                         | Rec=2.0             |
|          | S-5           | 2                              |                        |             |                                                                              | WET                 |
|          |               | 2                              |                        |             |                                                                              | PP=1-1.5            |
|          |               | 5                              |                        |             |                                                                              | ton/ft <sup>2</sup> |
| 25       |               |                                |                        |             |                                                                              |                     |
|          |               | 1                              |                        |             | Same                                                                         | Rec=2.0             |
|          | S-6           | 2                              | CL                     |             | -26.3 Gr Cy\$                                                                | WET                 |
|          |               | 1                              |                        |             | -26.9 Gr \$ & C                                                              | PP=1.0 ton/         |
|          |               | 3                              |                        |             |                                                                              | ft <sup>2</sup>     |
|          |               |                                |                        |             | (LACUSTRINE)                                                                 |                     |
| 30       |               |                                |                        |             | Bottom of Boring = 29.2'                                                     |                     |
|          |               |                                |                        |             | Hole abandoned 4/30/87; No terrace gravel intersected; Grout hole to surface |                     |

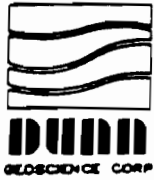
**APPENDIX B**  
**WELL CONSTRUCTION**

**DUNN GEOSCIENCE**  
**1977**



# MONITORING WELL COMPLETION LOG

WELL NO. DGC-15

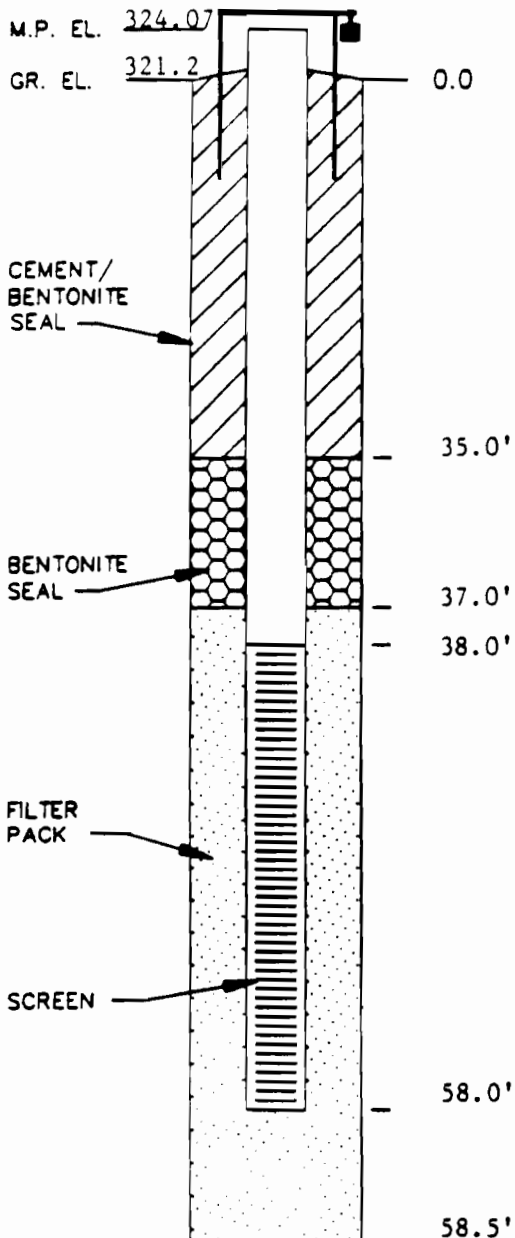


DUNN GEOSCIENCE CORPORATION

12 Metro Park Road  
Albany, NY 12205  
(518)458-1313

Project Malta Test Site  
Client GE Malta  
Location Malta, NY  
Project No. 2194-1-4935  
Date Drilled 5/12/87 - 5/13/87  
Date Developed 6/2/87

## WELL CONSTRUCTION DETAIL



NOT TO SCALE

Inspector Alan G. Hall  
Drilling Contractor CATOH Environmental Co., Inc.

Type of Well Monitoring  
Static Water Level 41.3 Date 6/2/87  
Measuring Point (M.P.) Top of PVC  
Total Depth of Well 58.0'  
Total Depth of Boring 58.5'

Drilling Method  
Type Hollow Stem Auger Diameter 4 1/2" ID  
Casing \_\_\_\_\_

Sampling Method  
Type \_\_\_\_\_ Diameter \_\_\_\_\_  
Weight \_\_\_\_\_ Fall \_\_\_\_\_  
Interval \_\_\_\_\_

Riser Pipe Left in Place  
Material PVC Diameter 2"  
Length 41.0' Joint Type Flush

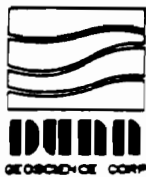
Screen  
Material PVC Diameter 2"  
Slot Size 0.010" Length 20'  
Stratigraphic Unit Screened Sand, little Silt

Filter Pack  
Sand X Gravel \_\_\_\_\_ Natural \_\_\_\_\_  
Grade More 00  
Amount 5 bags Interval 37.0' - 58.5'

Seal(s)  
Type Bentonite Pellers Interval 35.0' - 37.0'  
Type \_\_\_\_\_ Interval \_\_\_\_\_  
Type \_\_\_\_\_ Interval \_\_\_\_\_

Locking Casing ☒ Yes ☐ No  
Notes:

WELL NO. DGC-1D



12 Metro Park Road  
Albany, NY 12205  
(518)458-1313

Date Developed 6/2/87

M.P. EL. 323.33  
GR. EL. 321.2

CEMENT/  
BENTONITE  
SEAL

BENTONITE  
SEAL

FILTER  
PACK

SCREEN

FORMATIONAL  
COLLAPSE

0.0  
-53.5'  
-55.5'  
-58.0'  
-78.0'  
-78.5'  
-91.0'

Locking Casing ☒ Yes ☐ No  
Notes:

# MONITORING WELL COMPLETION LOG

WELL NO. DGC-25

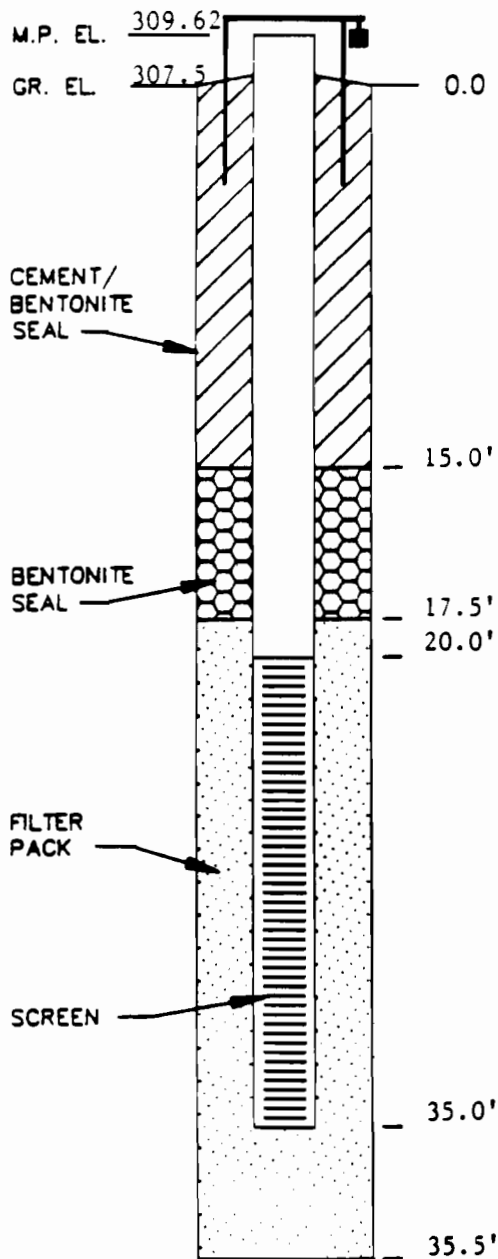


## DUNN GEOSCIENCE CORPORATION

12 Metro Park Road  
Albany, NY 12205  
(518)458-1313

Project Malta Test Site  
Client GE Malta  
Location Malta, NY  
Project No. 2194-1-4935  
Date Drilled 5/14/87 - 5/15/87  
Date Developed 6/2/87

### WELL CONSTRUCTION DETAIL



NOT TO SCALE

Inspector Alan G. Hall  
Drilling Contractor CATOH Environmental Co., Inc.

Type of Well Monitoring  
Static Water Level 26.0 Date 6/2/87  
Measuring Point (M.P.) Top of PVC  
Total Depth of Well 35.0'  
Total Depth of Boring 35.5'

Drilling Method  
Type Hollow Stem Auger Diameter 4 1/2" ID  
Casing \_\_\_\_\_

Sampling Method  
Type \_\_\_\_\_ Diameter \_\_\_\_\_  
Weight \_\_\_\_\_ Fall \_\_\_\_\_  
Interval \_\_\_\_\_

Riser Pipe Left in Place  
Material PVC Diameter 2"  
Length 22.2' Joint Type Flush

Screen  
Material PVC Diameter 2"  
Slot Size 0.010" Length 15'  
Stratigraphic Unit Screened Sand, little Silt

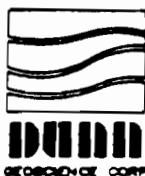
Filter Pack  
Sand X Gravel \_\_\_\_\_ Natural \_\_\_\_\_  
Grade More 00  
Amount 4 bags Interval 17.5' - 35.5'

Seal(s)  
Type Bentonite Pellets Interval 15.0' - 17.5'  
Type \_\_\_\_\_ Interval \_\_\_\_\_  
Type \_\_\_\_\_ Interval \_\_\_\_\_

Locking Casing ☒ Yes ☐ No  
Notes:

# MONITORING WELL COMPLETION LOG

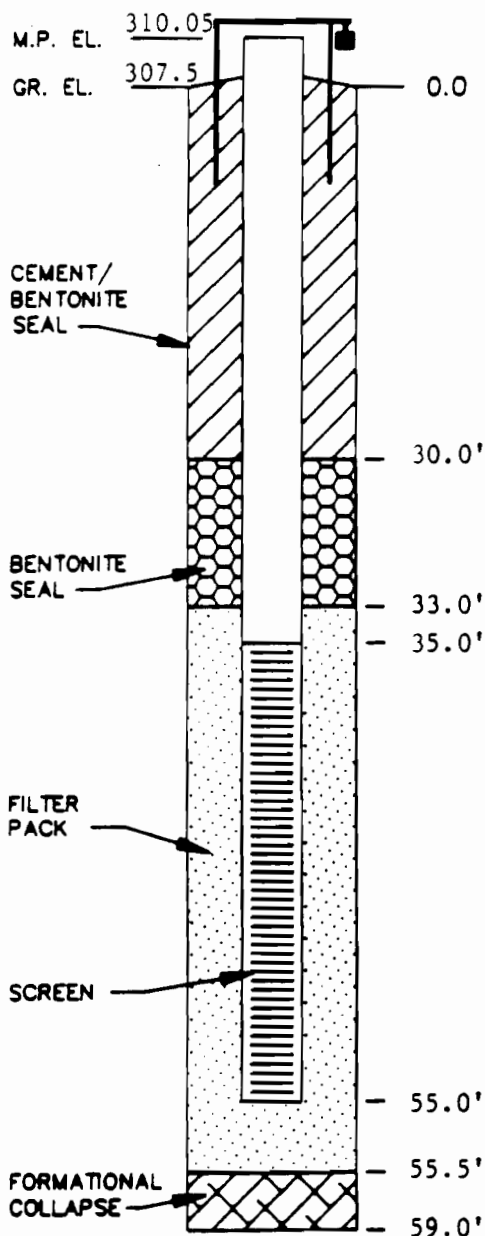
WELL NO. DGC-2D



DUNN GEOSCIENCE CORPORATION  
12 Metro Park Road  
Albany, NY 12205  
(518)458-1313

Project Malta Test Site  
Client GE Malta  
Location Malta, NY  
Project No. 2194-1-4935  
Date Drilled 5/14/87  
Date Developed 6/1/87

## WELL CONSTRUCTION DETAIL



NOT TO SCALE

Inspector Alan G. Hall  
Drilling Contractor CATON Environmental Co., Inc.

Type of Well Monitoring  
Static Water Level 26.7' Date 6/1/87  
Measuring Point (M.P.) Top of PVC  
Total Depth of Well 55.0'  
Total Depth of Boring 59.0'

Drilling Method  
Type Hollow Stem Auger Diameter 4 1/2" ID  
Casing \_\_\_\_\_

Sampling Method  
Type S.S. Diameter 2" OD  
Weight 140 lb. Fall 30"  
Interval Standard

Riser Pipe Left in Place  
Material PVC Diameter 2" ID  
Length 37.55' Joint Type Flush

Screen  
Material PVC Diameter 2" ID  
Slot Size 0.010" Length 20'  
Stratigraphic Unit Screened Sand, little Silt

Filter Pack  
Sand X Gravel \_\_\_\_\_ Natural \_\_\_\_\_  
Grade Morie 00  
Amount 5 bags Interval 33.0'-55.5'

Seal(s)  
Type Bentonite Pellets Interval 30.0'-33.0'  
Type \_\_\_\_\_ Interval \_\_\_\_\_  
Type \_\_\_\_\_ Interval \_\_\_\_\_

Locking Casing ☒ Yes ☐ No  
Notes:

# MONITORING WELL COMPLETION LOG

WELL NO. DGC-35



**DUNN GEOSCIENCE CORPORATION**

12 Metro Park Road  
Albany, NY 12205  
(518)458-1313

Project Malta Test Site

Client GE Malta

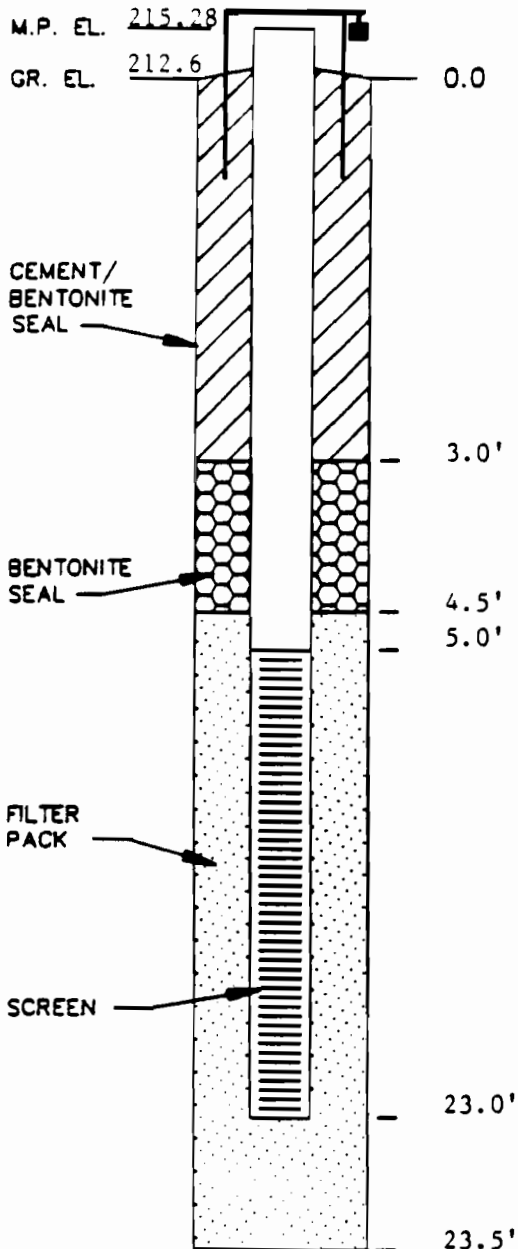
Location Malta, NY

Project No. 2194-1-4935

Date Drilled 5/7/87

Date Developed 5/29/87

## WELL CONSTRUCTION DETAIL



NOT TO SCALE

Inspector Alan G. Hall

Drilling Contractor CATOH Environmental Co., Inc.

Type of Well Monitoring

Static Water Level 12.1 Date 5/29/89

Measuring Point (M.P.) Top of PVC

Total Depth of Well 23.0'

Total Depth of Boring 23.5'

Drilling Method

Type Hollow Stem Auger Diameter 4 1/2" ID

Casing

Sampling Method

Type S.S. Diameter 2" OD

Weight 140 lb. Fall 30"

Interval Standard

Riser Pipe Left in Place

Material PVC Diameter 2"

Length 7.68' Joint Type Flush

Screen

Material PVC Diameter 2"

Slot Size 0.010" Length 18'

Stratigraphic Unit Screened Sand and Gravel

Filter Pack

Sand X Gravel        Natural       

Grade Morie 00

Amount 3 1/2 bags Interval 4.5' - 23.5'

Seal(s)

Type Bentonite Pellets Interval 3.0' - 4.5'

Type        Interval       

Type        Interval       

Locking Casing

☒ Yes

☐ No

Notes:

FORM005-9/87

# MONITORING WELL COMPLETION LOG

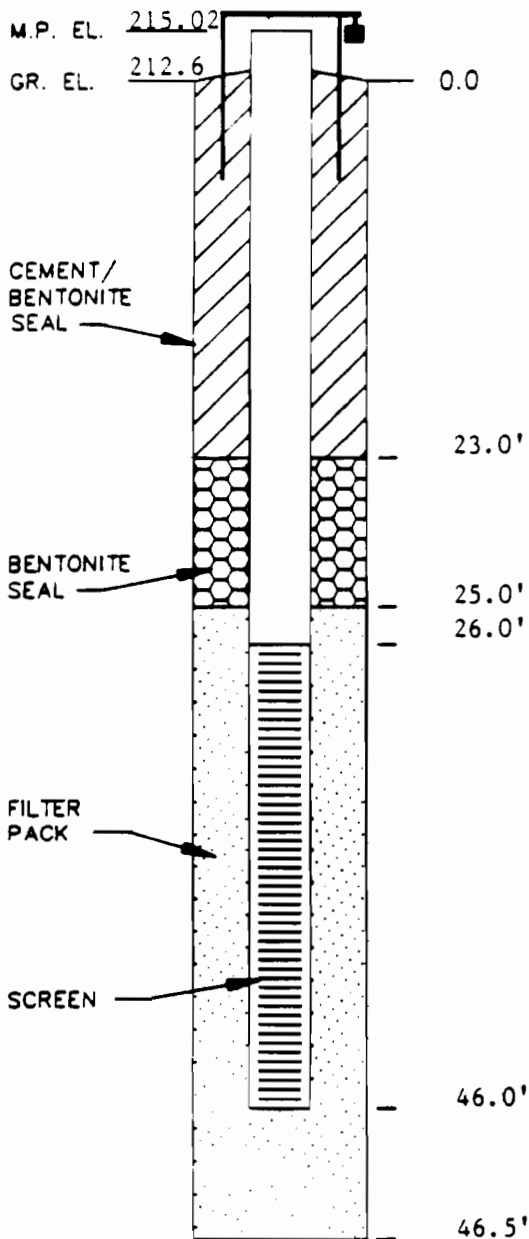
WELL NO. DGC-3D



**DUNN GEOSCIENCE CORPORATION**  
12 Metro Park Road  
Albany, NY 12205  
(518)458-1313

Project Malta Test Site  
Client GE Malta  
Location Malta, NY  
Project No. 2194-1-4935  
Date Drilled 5/6/87  
Date Developed 6/1/87

## WELL CONSTRUCTION DETAIL



NOT TO SCALE

Inspector Alan G. Hall  
Drilling Contractor CATOH Environmental Co., Inc.

Type of Well Monitoring  
Static Water Level 11.4 Date 6/1/87  
Measuring Point (M.P.) Top of PVC  
Total Depth of Well 46.0'  
Total Depth of Boring 46.5'

Drilling Method  
Type Hollow Stem Auger Diameter 4 1/2" ID  
Casing \_\_\_\_\_

Sampling Method  
Type S.S. Diameter 2" OD  
Weight 140 lb. Fall 30"  
Interval Standard

Riser Pipe Left in Place  
Material PVC Diameter 2"  
Length 28.42' Joint Type Flush

Screen  
Material PVC Diameter 2"  
Slot Size 0.010" Length 20'  
Stratigraphic Unit Screened clay and silty clay

Filter Pack  
Sand X Gravel \_\_\_\_\_ Natural \_\_\_\_\_  
Grade More 00  
Amount 5 bags Interval 25.0' - 46.5'

Seal(s)  
Type Bentonite Pellets Interval 23.0' - 25.0'  
Type \_\_\_\_\_ Interval \_\_\_\_\_  
Type \_\_\_\_\_ Interval \_\_\_\_\_

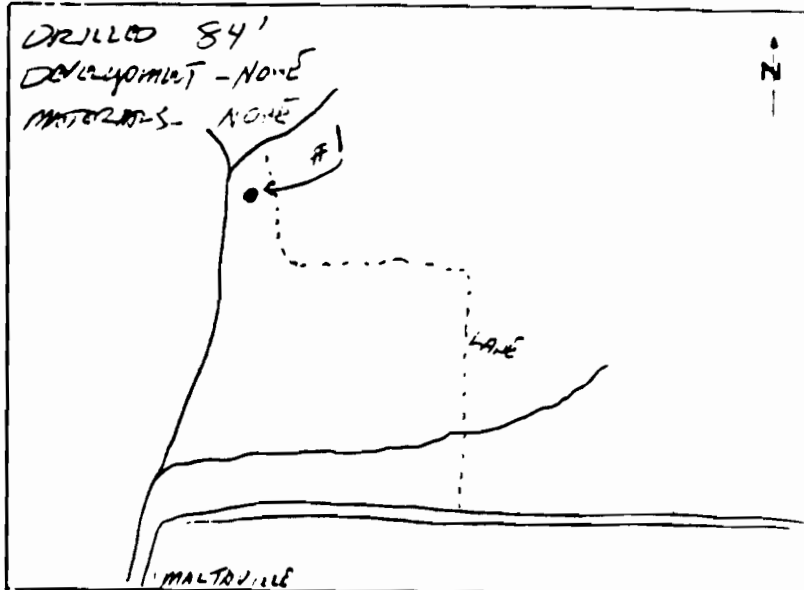
Locking Casing ☒ Yes ☐ No  
Notes:



DATE 2-13-74 TEST WELL NO #1  
FOR Dunn Geoscience Corp. TH-1-74  
LOCATION Luthe Forest  
PROPERTY OWNER Mackay

#### **SKETCH OF LOCATION**

DRILLED 84'  
DEVELOPMENT - NONE  
INTERESTS - NONE



OBS. WELL: NO. \_\_\_\_\_ DISTANCE . \_\_\_\_\_ DEPTH \_\_\_\_\_

NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_

WELL SCREEN: TYPE \_\_\_\_\_ LENGTH \_\_\_\_\_ OPENING \_\_\_\_\_

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION: \_\_\_\_\_

[illegible]

STATIC LEVEL \_\_\_\_\_ ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_

QUALITY: PH \_\_\_\_\_ HARD. \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_

ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_

PIPE LEFT: IN WELL \_\_\_\_\_ FT., IN OBS. WELL \_\_\_\_\_ FT.

SCREEN LEFT: IN WELL \_\_\_\_\_ FT., IN OBS. WELL \_\_\_\_\_ FT.

**BOTTOM OF TEST HOLE**

NOTE (1): SKETCH MEASUREMENTS FROM GROUND LEVEL.

12) OBS. WELL SCREEN IS OPPOSITE WELL SCREEN.

(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

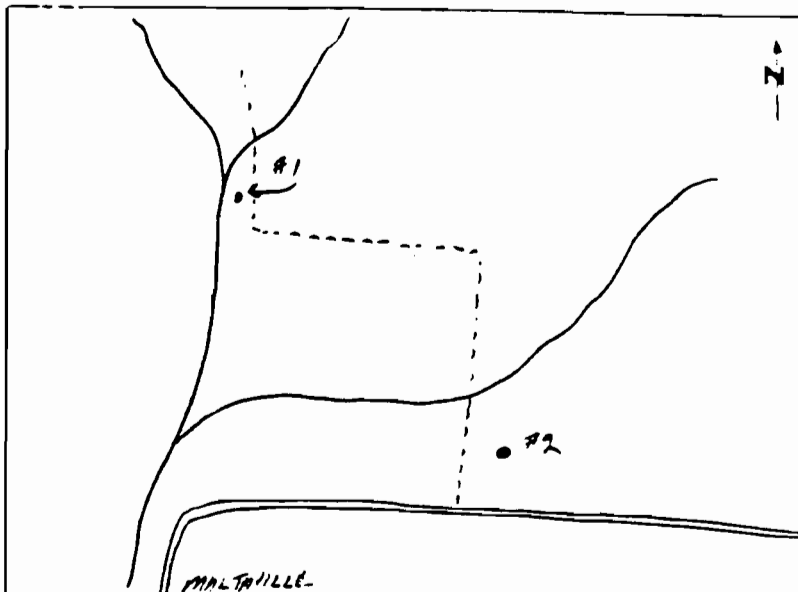
Ed Holden

FOR LAYNE - NEW YORK CO., INC.



DATE 2-15-74 TEST WELL NO. W2 + 0E  
FOR DUNN GEOSCIENCE CORP TH-2-74  
LOCATION LOTICE FOREST TH-2a-74  
PROPERTY OWNER MACKEY  
SKETCH OF LOCATION

### **SKETCH OF LOCATION**



OBS. WELL NO. #2 DISTANCE 24" DEPTH 30'-2"  
NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
WELL SCREEN: TYPE \_\_\_\_\_ LENGTH \_\_\_\_\_ OPENING \_\_\_\_\_

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION:

[illegible]

T.O.C., STATIC LEVEL 7'-2" ORIFICE            AIR LINE LENGTH           

QUALITY. PH \_\_\_\_\_ HARD. \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_

ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_

PIPE LEFT: IN WELL 26'-10" FT., IN OSS. WELL 26'-10" FT.

SCREEN LEFT: IN WELL 5'-.060" FT., IN OBS. WELL 5'-.060' FT.

**BOTTOM OF TEST HOLE**

NOTE (1) SKETCH MEASUREMENTS FROM GROUND LEVEL.

(2) OBS. WELL SCREEN IS OPPOSITE WELL SCREEN.

(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

E. O. HOLDEN

FOR LAYNE - NEW YORK: SC - INC.





DATE 2-20-74

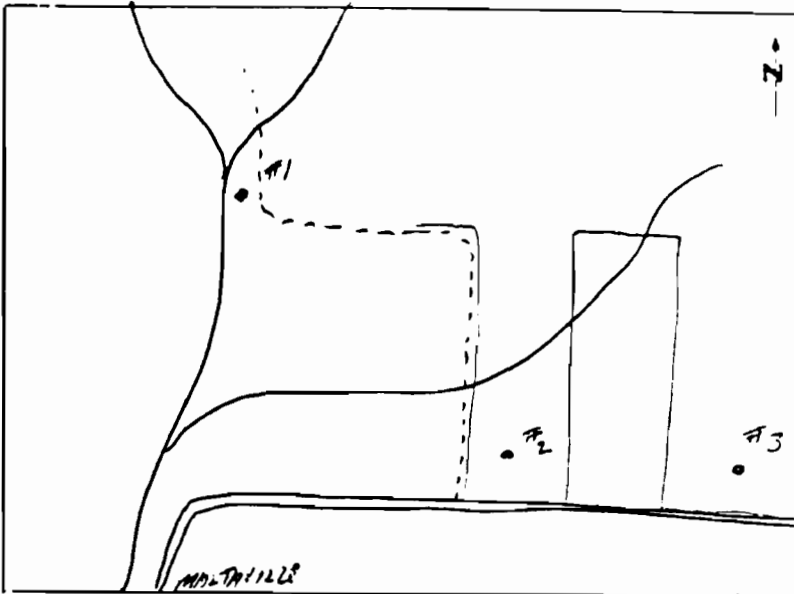
TEST WELL NO

FOR DUNN GEOSCIENCE CORP TH-3-74

LOCATION LUTHER FOREST

PROPERTY OWNER **MACKAY**

### SKETCH OF LOCATION



OBS. WELL: NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_

NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_

WELL SCREEN: TYPE \_\_\_\_\_ LENGTH \_\_\_\_\_ OPENING \_\_\_\_\_

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION:

[illegible]

TOG STATIC LEVEL 19'-11" ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_

QUALITY: PH \_\_\_\_\_ HARD. \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_

ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_

PIPE LEFT: IN WELL 19'-9" FT., IN OBS. WELL \_\_\_\_\_

SCREEN LEFT: IN WELL 3'-050" FT. IN OBS. WELL \_\_\_\_\_

**BOTTOM OF TEST HOLE**

NOTE (1) SKETCH MEASUREMENTS FROM GROUND LEVEL.

(2) OBS. WELL SCREEN IS OPPOSITE WELL SCREEN

(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

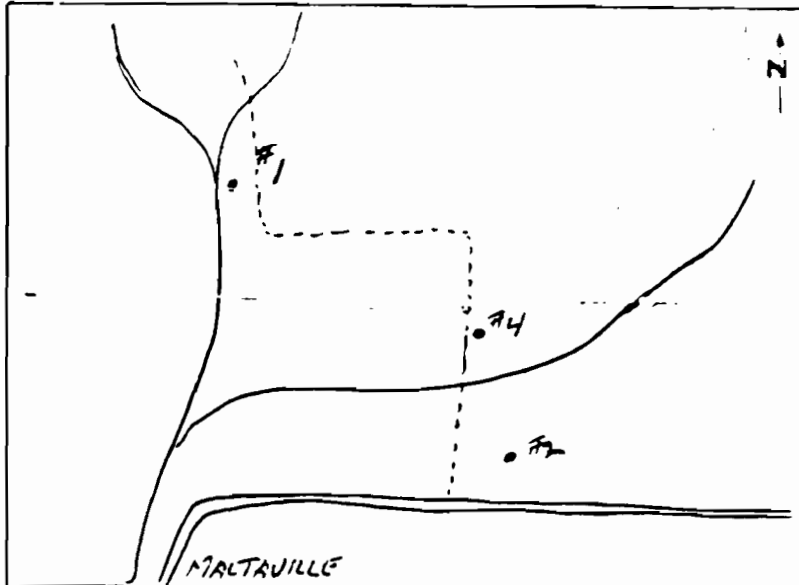
E.H. Holden

FOR LAYNE - NEW YORK CO., INC.



DATE 2-21-74 TEST WELL NO #4 + OBS  
FOR DUNN GEOSCIENCE CORP TH-4-74  
LOCATION LUTHER FOREST TH-4a-7  
PROPERTY OWNER MACKAY  
SKETCH OF LOCATION

### SKETCH OF LOCATION



OBS. WELL: NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 WELL SCREEN: TYPE \_\_\_\_\_ LENGTH \_\_\_\_\_ OPENING \_\_\_\_\_

PUMPING DATA : MEASURED FROM TOP OF PIPE: ELEVATION

[illegible]

TAC STATIC LEVEL 8'-1" ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_  
QUALITY: PH \_\_\_\_\_ HARD \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_  
ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_  
PIPE LEFT: IN WELL 26'-10" FT. IN OBS. WELL 27'-4"  
SCREEN LEFT: IN WELL 5'-060" FT. IN OBS. WELL 3'-060"  
31'-10" 30'-4"

(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

Ed Holden

FOR LAYNE - NEW YORK CO., INC.



DATE 2-25-74 TEST WELL NO #5 + OBS  
FOR DUNN GEOSCIENCE CORP TH-S-74  
LOCATION LUTHER FOREST TH-Sa-7  
PROPERTY OWNER MACKAY

A hand-drawn map of the Matruville area. The map shows a road network with a main road running vertically on the left and a horizontal road at the bottom. A dashed rectangular boundary is drawn in the upper right quadrant. Five numbered points are marked: A1 is at the top left of the dashed boundary; A2 is at the bottom right of the dashed boundary; A4 and A5 are located between the dashed boundary and the horizontal road. A north arrow is in the top right corner. The word 'MATRUVILLE' is written at the bottom left.

ORB. WELL: NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 WELL SCREEN: TYPE \_\_\_\_\_ LENGTH \_\_\_\_\_ OPENING \_\_\_\_\_

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION:

[illegible]

T.O.C. STATIC LEVEL 20'-3" ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_

QUALITY: PH \_\_\_\_\_ HARD. \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_

ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_

PIPE LEFT IN WELL 26'-4" FT. IN OBS. WELL 28' FT.

SCREEN LEFT: IN WELL 5'-060" FT. IN OBS. WELL 3'-MESH FT

Screen set at 30' 1 1/4" material left in place  
new 1 1/4" pipe

NOTE (1) SKETCH MEASUREMENTS FROM GROUND LEVEL.

12) OBS. WELL SCREEN IS OPPOSITE WELL SCREEN.

(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

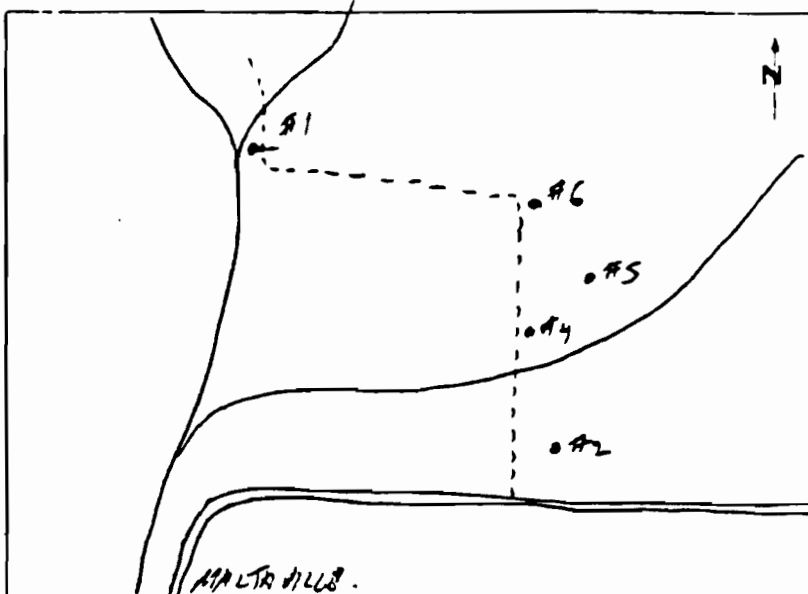
Ed Holden

FOR LAYNE - NEW YORK CO. INC.



DATE 3-1-74 TEST WELL NO. HC + 085  
FOR QUINN GEOSURVING CORP TH-6-74  
LOCATION LUTHER FOREST TH-6-74  
PROPERTY OWNER MACKAY

### SKETCH OF LOCATION



OBS. WELL: NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 WELL SCREEN: TYPE \_\_\_\_\_ LENGTH \_\_\_\_\_ OPENING \_\_\_\_\_

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION

[illegible]

T.O.C. STATIC LEVEL 17'-7" ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_  
QUALITY: PH \_\_\_\_\_ HARD \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_  
ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_  
PIPE LEFT: IN WELL 25' FT. IN OBS. WELL 25' FT.  
SCREEN LEFT: IN WELL 5'-.050" FT. IN OBS. WELL 5'-.040" FT.

**BOTTOM OF TEST HOLE**

13) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

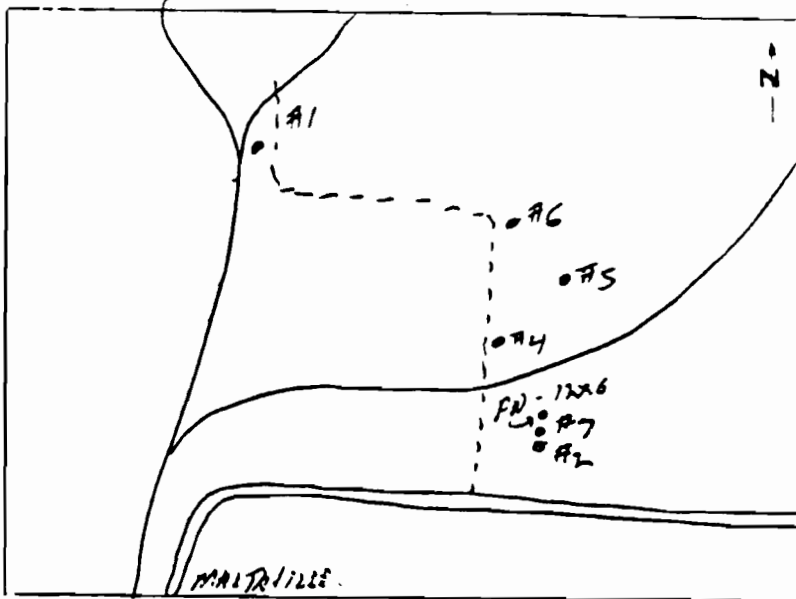
Ed. Verdine

FOR LAYNE - NEW YORK CO., INC.



033  
WELL NO 7 at 25  
P IH-7-74

### SKETCH OF LOCATION



OBS. WELL: NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
NO. \_\_\_\_\_ DISTANCE \_\_\_\_\_ DEPTH \_\_\_\_\_  
WELL SCREEN: TYPE Wire LENGTH 5 OPENING .060"

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION:

[illegible]

T.O.C. STATIC LEVEL 9-10' ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_  
QUALITY: PH \_\_\_\_\_ HARD \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_  
ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_  
PIPE LEFT: IN WELL 25' FT., IN OBS. WELL 0 FT.  
SCREEN LEFT: IN WELL 5' FT., IN OBS. WELL 0 FT.

**BOTTOM OF TEST HOLE**

NOTE (1) SKETCH MEASUREMENTS FROM GROUND LEVEL  
(2) OBS. WELL SCREEN IS OPPOSITE WELL SCREEN  
(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

Ed Holden

FOR LAYNE - NEW YORK CO., INC.



DATE 3-18-74 TEST WELL NO 8ar #5  
FOR Dunn Geoscience Co. IN WOOD  
LOCATION Luthe Forest 250  
PROPERTY OWNER Mackay TH-8-74

Hand-drawn map of the Mal Taillie area. The map shows a coastline with several points marked: #1, #6, #5, #24, #3, and #L. A dashed line connects point #1 to point #6, and another dashed line connects point #6 to point #24. A north arrow is located in the top right corner. The text "MAL TAILLIE" is written at the bottom left of the map.

PUMPING DATA (MEASURED FROM TOP OF PIPE) ELEVATION:

[illegible]

T.O.C. STATIC LEVEL 11' ORIFICE \_\_\_\_\_ AIR LINE LENGTH \_\_\_\_\_  
 QUALITY: PH \_\_\_\_\_ HARD. \_\_\_\_\_ IRON \_\_\_\_\_ MANGANESE \_\_\_\_\_  
 ODOR \_\_\_\_\_ TASTE \_\_\_\_\_ LAB. SAMPLE \_\_\_\_\_  
 PIPE LEFT: IN WELL \_\_\_\_\_ FT., IN OSS. WELL \_\_\_\_\_ FT.  
 SCREEN LEFT: IN WELL \_\_\_\_\_ FT., IN OSS. WELL \_\_\_\_\_ FT.

(3) DEPTH SHOWN IS MAXIMUM DEPTH OF HOLE.

ED HILDEN

FOR LAYNE - NEW YORK CO., INC.

DUNN GEOSCIENCE 1985  
WELL CONSTRUCTION LOG  
PW-3

**CATOH Environmental Companies, Inc.**

16 Drumlin Drive, P.O. Box 560

Weedsport, New York 13166

Phone: 315/834-6603

Project: Luther Forest Corporation  
Installation of 8" x 16" Well

Project No.: C357

Boring No.: B-1

Surface Elev.:

Client: Luther Forest Corporation

Date Started: 10/24/85

Date Completed: 10/24/85

Driller: M. Rohauer

Inspector: J. Wink

Groundwater Depth-Casing In:

Below Ground Surf.-Casing Out:

Sheet 1 of 1

| DEPTH | SAMPLE DEPTH | SAMPLE NO. | BLOWS ON SAMPLER |           |            |            | N  | MATERIAL DESCRIPTION                  |
|-------|--------------|------------|------------------|-----------|------------|------------|----|---------------------------------------|
|       |              |            | 0"<br>6"         | 6"<br>12" | 12"<br>18" | 18"<br>24" |    |                                       |
| 0     |              |            |                  |           |            |            |    | Dark brown sand (top soil)            |
| 5     | 5.0-7.0'     | 1          | 8                | 10        |            |            | 18 | Light brown fine sand and silt.       |
|       |              |            |                  |           | 7          | 6          | 13 |                                       |
| 10    | 10.0-12.0'   | 2          | 1                | 1         |            |            | 2  | Gray coarse to fine sand.             |
|       |              |            |                  |           | 1          | 1          | 2  |                                       |
|       | 12.0-14.0'   | 3          | WHR              | WHR       |            |            |    | Gray coarse to fine sand.             |
|       |              |            |                  |           | WHR        | 1          |    |                                       |
| 15    | 14.0-16.0'   | 4          | WHR              | WHR       |            |            |    | Gray coarse to fine sand.             |
|       |              |            |                  |           | WHR        | 1          |    |                                       |
|       | 16.0-18.0'   | 5          | 1                | 1         |            |            | 2  | Brown coarse to fine sand.            |
|       |              |            |                  |           | 1          | 2          | 3  |                                       |
|       | 18.0-20.0'   | 6          | 1                | 1         |            |            | 2  | Brown coarse to fine sand.            |
|       |              |            |                  |           | 2          | 2          | 4  |                                       |
| 20    | 20.0-22.0'   | 7          | 1                | 1         |            |            | 2  | Brown coarse to fine sand.            |
|       |              |            |                  |           | 2          | 2          | 4  |                                       |
|       | 22.0-24.0'   | 8          | 1                | 1         |            |            | 2  | Brown coarse to fine sand.            |
|       |              |            |                  |           | 1          | 2          | 3  |                                       |
| 25    | 24.0-26.0'   | 9          | 1                | 1         |            |            | 2  | Brown fine gravel with silt and sand. |
|       |              |            |                  |           | 3          | 4          | 7  |                                       |
|       | 26.0-28.0'   | 10         | 3                | 6         |            |            | 9  | Brown fine gravel with silt and sand. |
|       |              |            |                  |           | 6          | 5          | 11 |                                       |
|       | 28.0-30.0'   | 11         | 4                | 5         |            |            | 9  | Gray with brown clay and silt.        |
|       |              |            |                  |           | 5          | 6          | 11 |                                       |
| 30    |              |            |                  |           |            |            |    | Boring terminated at 30.0'            |
|       |              |            |                  |           |            |            |    |                                       |
|       |              |            |                  |           |            |            |    | NOTE: Soils classifications performed |
|       |              |            |                  |           |            |            |    | in the field by driller/technician.   |
| 35    |              |            |                  |           |            |            |    |                                       |
|       |              |            |                  |           |            |            |    |                                       |
|       |              |            |                  |           |            |            |    |                                       |
| 40    |              |            |                  |           |            |            |    |                                       |

N = No. of blows to drive 2" spoon 12" w/ 140 lb. weight 30" each blow.

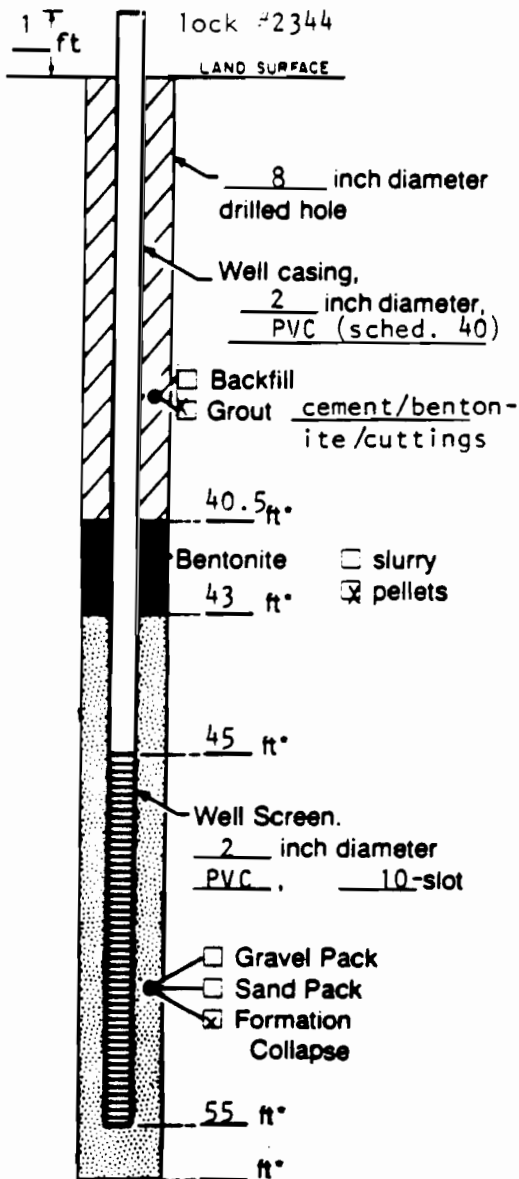
Casing Type: hollow stem auger



**GERAGHTY & MILLER, INC.**  
**1985/86**

Prepared by Robert Graham

## WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

\*Depth Below Land Surface

Project G.E./N0360MA2 Well MW-1

Town/City Malta

County Saratoga State New York

Permit No. \_\_\_\_\_

Land-Surface Elevation \_\_\_\_\_

and Datum 339.4' (MSL) ☒ surveyed

measuring point - 341.23' (MSL) ☐ estimated

Installation Date(s) 5-6-86

Drilling Method auger

Drilling Contractor Parratt-Wolff

Drilling Fluid none used

Development Technique(s) and Date(s)

5-7-86: bailed well with PVC bailer

Fluid Loss During Drilling \_\_\_\_\_ gallons

Water Removed During Development \_\_\_\_\_ gallons

Static Depth to Water \_\_\_\_\_ feet below M.P.

Pumping Depth to Water \_\_\_\_\_ feet below M.P.

Pumping Duration \_\_\_\_\_ hours

Yield \_\_\_\_\_ gpm Date \_\_\_\_\_

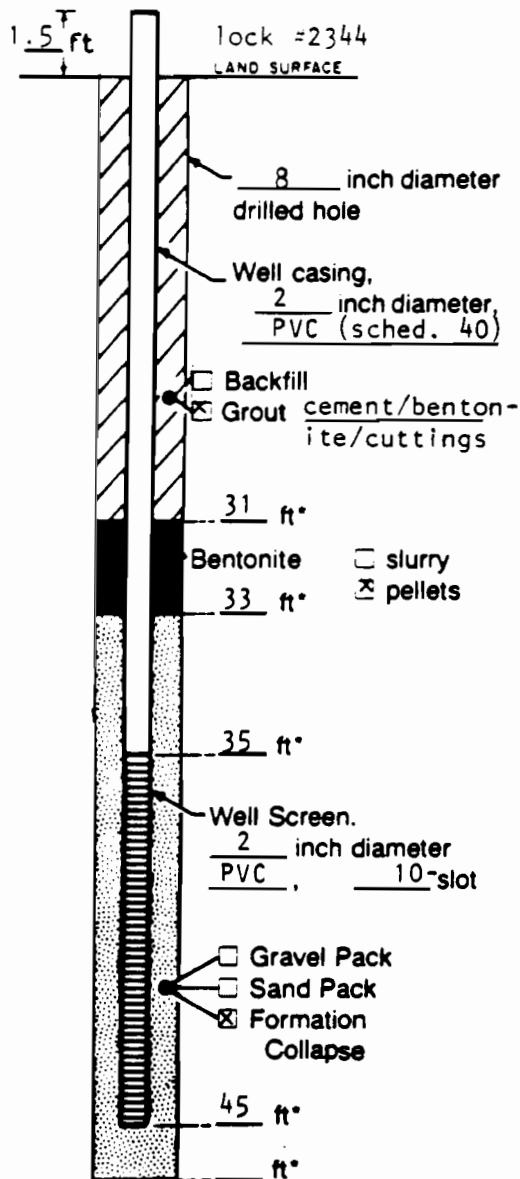
Specific Capacity \_\_\_\_\_ gpm/ft

Well Purpose monitoring

Remarks \_\_\_\_\_

Prepared by Rob Graham

## WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

\*Depth Below Land Surface

Project G.E./N0360MA2 Well MW-2  
Town/City Malta  
County Saratoga State New York  
Permit No. \_\_\_\_\_  
Land-Surface Elevation and Datum 330.2' (MSL) ☒ surveyed  
measuring point - 332.24' (MSL) ☐ estimated  
Installation Dates(s) 5-6-86  
Drilling Method auger  
Drilling Contractor Parratt-Wolff  
Drilling Fluid none used

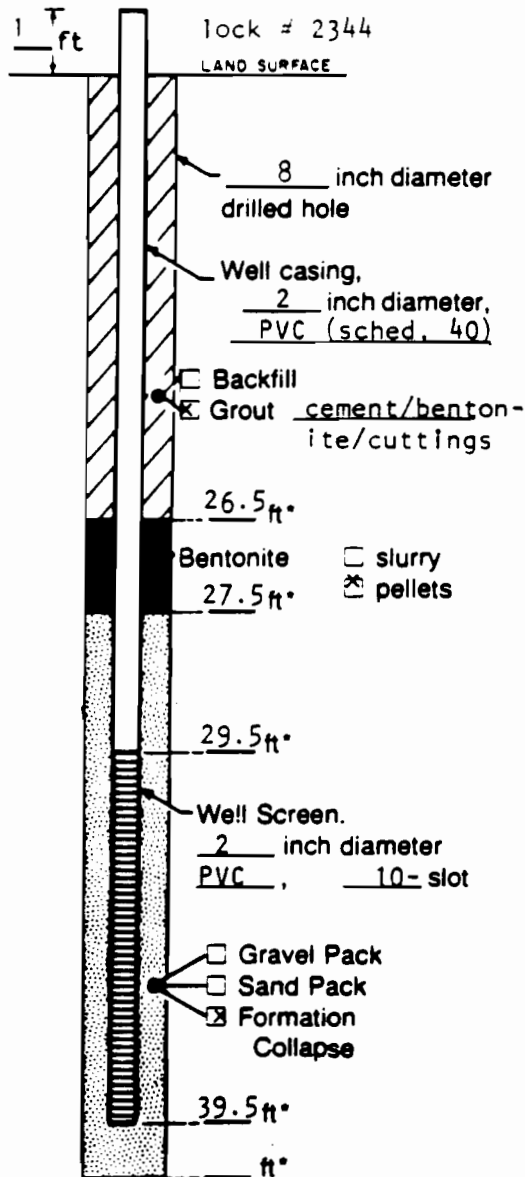
Development Techniques(s) and Date(s)  
5-7-86: bailed well with PVC bailer

Fluid Loss During Drilling \_\_\_\_\_ gallons  
Water Removed During Development 30 gallons  
Static Depth to Water \_\_\_\_\_ feet below M.P.  
Pumping Depth to Water \_\_\_\_\_ feet below M.P.  
Pumping Duration \_\_\_\_\_ hours  
Yield \_\_\_\_\_ gpm Date \_\_\_\_\_  
Specific Capacity \_\_\_\_\_ gpm/ft  
Well Purpose monitoring

Remarks \_\_\_\_\_

Prepared by Rob Graham

## WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

\*Depth Below Land Surface

Project G.E./N0360MA2 Well MW-3

Town/City Malta

County Saratoga State New York

Permit No. \_\_\_\_\_

Land-Surface Elevation \_\_\_\_\_

and Datum 323.2' (MSL) ☒ surveyed

measuring point - 325.02' (MSL) ☐ estimated

Installation Dates(s) 5-6-86

Drilling Method auger

Drilling Contractor Parratt-Wolff

Drilling Fluid none used

Development Techniques(s) and Date(s)

5-7-86: bailed well with PVC bailer

Fluid Loss During Drilling \_\_\_\_\_ gallons

Water Removed During Development 20 gallons

Static Depth to Water \_\_\_\_\_ feet below M.P.

Pumping Depth to Water \_\_\_\_\_ feet below M.P.

Pumping Duration \_\_\_\_\_ hours

Yield \_\_\_\_\_ gpm Date \_\_\_\_\_

Specific Capacity \_\_\_\_\_ gpm/ft

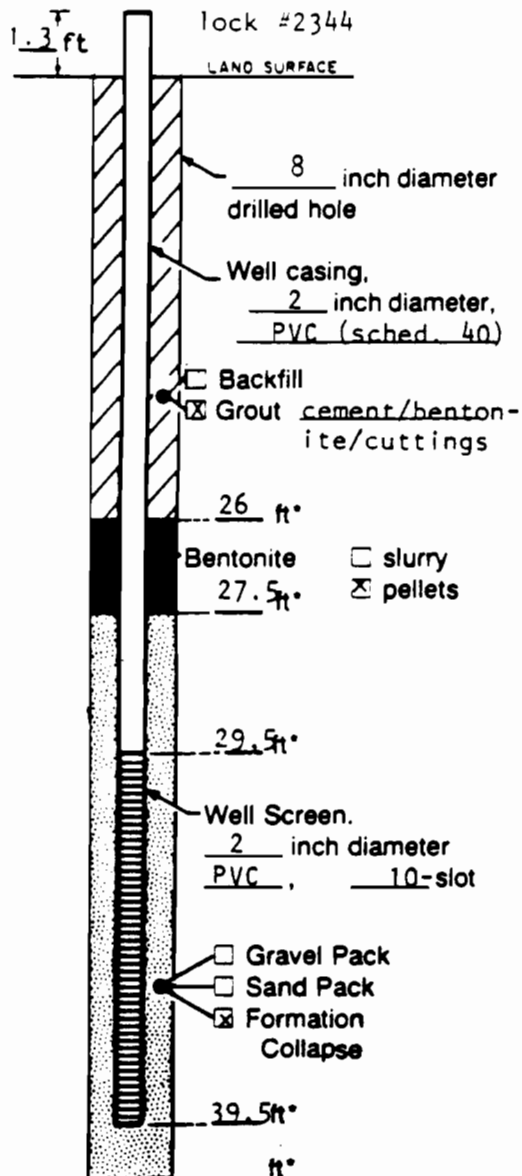
Well Purpose monitoring

Remarks due to bend in well casing near top of well,

cannot use a bailer larger than 1.25" x 3'

Prepared by Rob Graham

## WELL CONSTRUCTION LOG



Project G.E./N0360MA2 Well MW-4

Town/City Malta

County Saratoga State New York

Permit No. \_\_\_\_\_

Land-Surface Elevation

and Datum 325.4' (MSL) ☒ surveyed

measuring point - 327.03' (MSL) ☐ estimated

Installation Date(s) 5-7-86

Drilling Method auger

Drilling Contractor Parratt-Wolff

Drilling Fluid none used

Development Techniques(s) and Date(s)

5-7-86: bailed well with PVC bailer

Fluid Loss During Drilling \_\_\_\_\_ gallons

Water Removed During Development 30 gallons

Static Depth to Water \_\_\_\_\_ feet below M.P.

Pumping Depth to Water \_\_\_\_\_ feet below M.P.

Pumping Duration \_\_\_\_\_ hours

Yield \_\_\_\_\_ gpm Date \_\_\_\_\_

Specific Capacity \_\_\_\_\_ gpm/ft

Well Purpose monitoring

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Prepared by Rob Graham

**APPENDIX C**  
**WATER-LEVEL MEASUREMENTS**

**BLASLAND & BOUCK, 1986**



TABLE C-1

## SUMMARY OF WELL STATISTICS

| Well Number | Ground Elevation a/ | Measuring Point <sup>a/</sup> | Depth (ft) <sup>b/</sup> | Screened Interval a/ | Potentiometric Level Elevations a/ |        |        |       |
|-------------|---------------------|-------------------------------|--------------------------|----------------------|------------------------------------|--------|--------|-------|
|             |                     |                               |                          |                      | 7/22-23                            | 7/30   | 8/4    | 8/25  |
| Well 1      | 337.57              | 329.44 <sup>c/</sup>          | 82.0                     | 247.44-267.44        |                                    | 280.84 | 287.25 | 287.7 |
| Well 2      | 336.39              | 327.83 <sup>c/</sup>          | 86.5                     | 241.33-249.33        |                                    | 291.43 | 289.33 | 289.4 |
| 2S          | 333.60              | 335.51                        | 47.0                     | 286.61-301.61        | 293.90                             | 293.96 | 293.86 | 294.5 |
| Well 3      | 318.44              | 310.61 <sup>c/</sup>          | 76.5                     | 234.11-244.11        |                                    | 287.43 | 287.30 | 287.8 |
| 3S          | 318.30              | 320.87                        | 35.4                     | 282.88-297.88        | 290.54                             | 290.60 | 290.50 | 291.3 |
| 4S          | 326.10              | 329.09                        | 46.6                     | 279.55-294.55        | 285.79                             | 284.45 | 285.80 | 285.9 |
| 4D          | 325.60              | 327.56 <sup>c/</sup>          | 65.1                     | 260.54-265.54        |                                    | 285.88 | 285.72 | 285.9 |
| 10S         | 327.00              | 329.58                        | 41.0                     | 286.03-296.03        | 293.44                             | 293.55 | 293.41 | 294.1 |
| 10D         | 327.10              | 328.93                        | 74.5                     | 252.56-262.56        | 284.37                             | 284.82 | 285.00 | 285.1 |
| 11S         | 317.40              | 319.61                        | 35.7                     | 281.68-296.68        | 293.39                             | 293.59 | 293.47 | 294.0 |
| 11D         | 317.60              | 319.70                        | 69.7                     | 247.88-257.88        | 306.60                             | 286.92 | 286.81 | 287.2 |
| 13S         | 327.10              | 329.26                        | 40.3                     | 286.84-296.84        | 294.74                             | 294.86 | 294.74 | 295.1 |
| 13D         | 327.30              | 329.28                        | 66.9                     | 260.37-270.37        | 289.48                             | 289.11 | 289.08 | 289.4 |
| 14D         | 339.20              | 341.47                        | 75.3                     | 263.90-273.90        | 294.85                             | 294.87 | 294.81 | 295.0 |
| MW-1        | 339.60              | 341.15                        | 54.3                     | 285.30-295.30        |                                    | 295.87 | 295.74 | 296.0 |
| MW-2        | 330.30              | 331.92                        | 44.3                     | 285.98-295.98        |                                    | 294.69 | 294.83 | 295.3 |
| MW-3        | 323.30              | 324.84                        | 38.6                     | 284.71-294.71        |                                    |        | 293.88 | 296.2 |
| MW-4        | 325.60              | 327.00                        | 39.0                     | 286.59-296.59        |                                    | 296.36 | 296.33 | 296.9 |

a/ The reference for elevations is feet above mean sea level. Unless otherwise noted, the measuring point is the top of PVC casing.

b/ Depth is the depth in feet to the nearest .1 foot to the bottom of the screen interval from ground surface.

c/ The measure point is the top of the steel well casing.

**GERAGHTY & MILLER, 1986**

TABLE C-2 Static Water-Level Measurements, General Electric Company, Malta, New York.

| Well No. | Elevation of<br>the Measuring<br>Point<br>(feet above<br>mean sea level) | Depth to<br>Water<br>(feet below<br>measuring point) | Elevation of<br>the Water Table<br>(feet above<br>mean sea level) | Depth to<br>Water<br>(feet below<br>measuring point) | Elevation of<br>the Water Table<br>(feet above<br>mean sea level) |
|----------|--------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|
| MW-1     | 341.23                                                                   | 295.11                                               | 46.12                                                             | 46.10                                                | 295.13                                                            |
| MW-2     | 332.24                                                                   | 294.64                                               | 37.60                                                             | 37.59                                                | 294.65                                                            |
| MW-3     | 325.02                                                                   | 295.19                                               | 29.83                                                             | 29.82                                                | 295.20                                                            |
| MW-4     | 327.03                                                                   | 295.86                                               | 31.17                                                             | 31.17                                                | 295.86                                                            |

**APPENDIX D**  
**SELECTED C.T. MALE ASSOCIATES**  
**OBSERVATIONS**



NOTE: The well nomenclature used in this report does not correspond to what is currently the accepted convention.

Equivalencies follow:

This report    Accepted convention

|         |   |          |
|---------|---|----------|
| Well #1 | = | Well # 4 |
| Well #2 | = | Well # 3 |
| Well #3 | = | Well # 1 |
| Well #4 | = | Well # 2 |

August 11, 1983

Mr. Edwin Vopelak, Jr., P.E.  
Project Engineer  
C.T. Male Associates, P.C.  
3000 Troy Road  
Schenectady, NY 12309

Dear Mr. Vopelak:

We have completed our analysis of groundwater movement at the Saratoga Research Development Center. This letter presents a short report containing our findings, conclusions and recommendations for further work at the site based on groundwater information provided to us by C.T. Male Associates.

Our analysis was limited to the data provided by C.T. Male. The data used for our analysis included:

- o Water level measurements at four wells on the Saratoga Research and Development Center on three separate dates.
- o Topographic map showing well locations entitled "Groundwater Monitoring Survey, NYSERDA, Saratoga Research and Development Center", by C.T. Male Associates, July 8, 1983.
- o Engineering Planning Study, Saratoga Research and Development Center, Malta, N.Y., Volume 1, by C.T. Male Associates, P.C., July, 1979
- o USGS Mechanicville Quadrangle, 1974
- o USGS Round Lake Quadrangle, 1974

Water level measurements were taken at three separate dates and are summarized below:

| <u>WELL</u> | <u>WATER LEVEL ELEVATION</u> |                      |                      |
|-------------|------------------------------|----------------------|----------------------|
|             | <u>June 13, 1983</u>         | <u>June 27, 1983</u> | <u>July 11, 1983</u> |
| 1           | 285.3                        | 285.6                | 281.1                |
| 2           | 287.3                        | 287.7                | 287.8                |
| 3           | 287.7                        | 288.0                | 288.2                |
| 4           | 288.5                        | 284.5                | 289.7                |



## CONCLUSIONS

Water level elevations indicate that groundwater flow in the vicinity of W2, W3 and W4 is southwestward toward a deep ravine leading to Round Lake (See Figure 1). Water level elevations at W1 are lower than in the vicinity of W2, W3 and W4 indicating groundwater is moving in a northwesterly direction from W2, W3 and W4 toward W1. However, surface topography indicates a surface water divide between W1 and W2. There is probably also a groundwater divide between W1 and W2 so that groundwater flow from W2, W3 and W4 does not move northwesterly toward W1 but flows southwestward toward the deep ravine as shown on Figure 1.

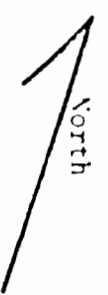
Water level elevations at W4 indicate that pumping causes a cone of depression which will influence the groundwater flow direction. Although the wells were shut down for 2 days prior to groundwater measurements, the water elevation at W4 taken on June 27, 1983, indicates this well had not fully recovered from pumping. On this date, groundwater flow direction was reversed; groundwater movement was toward the northeast. Therefore, even though groundwater movement may be generally southwestward, pumping from W3 and W4 may reverse the flow direction, due to the cone of depression caused by pumping.

A further complication in determining the direction of groundwater flow is the location of a surface water divide between the waste dump and container burial sites and W4. A north-south surface water divide between Saratoga Lake and Round Lake passes through this area. Surface water flow from the waste dump area will move toward Saratoga Lake while surface water flow from the area of W3 and W4 will move toward Round Lake. Since groundwater divides sometimes coincide with surface water divide, there could be a groundwater divide in this area. If a groundwater divide is found in this area, groundwater would flow northward from the waste disposal area toward Saratoga Lake. However, even if there is a groundwater divide in this area, pumping at W3 and W4 could reverse the groundwater flow direction from northerly toward Saratoga Lake to southwestward, toward W3 and W4.

Lake level elevations of Saratoga Lake and Round Lake indicate the regional direction of groundwater flow is southwestward. The water elevation at Saratoga Lake is 203 while the water elevation of Round Lake is 155. Since the regional groundwater flow direction is southwestward, and pumping from W3 and W4 would result in a cone of depression southwest of the waste disposal areas, the probable direction of groundwater flow beneath the area used for waste disposal is southwestward.

In conclusion, the direction of groundwater movement away from the waste dump and container burial sites can not be definitely determined from the water level elevations taken at the four wells. Although both water levels in the wells and regional information indicate groundwater flow beneath the waste dump and container burial sites is probably southwestward, groundwater flow direction in this area and off-site is complicated by:

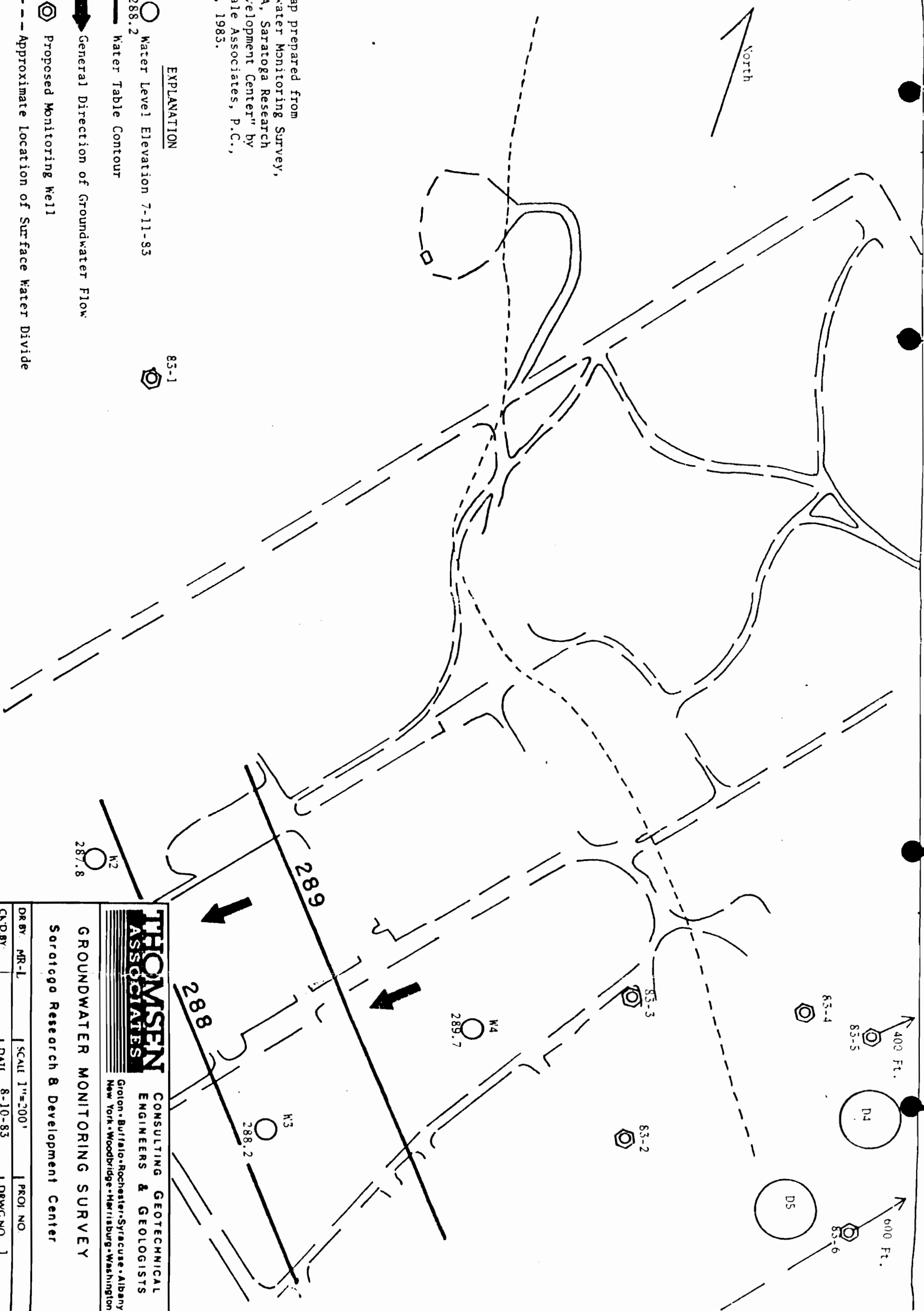
- o Possible groundwater divide between W1 and W2
- o Possible groundwater divide between the area used for waste disposal and W3 and W4.



NOTE:  
Base Map prepared from  
"Groundwater Monitoring Survey",  
NYSERDA, Saratoga Research  
and Development Center" by  
T. Male Associates, P.C.,  
1y 8, 1985.

EXPLANATION

- Water Level Elevation 7-11-83
- Water Table Contour
- ➡ General Direction of Groundwater Flow
- ⊗ Proposed Monitoring Well
- - - Approximate Location of Surface Water Divide



**THOMSEN ASSOCIATES**  
CONSULTING GEOTECHNICAL ENGINEERS & GEOLOGISTS  
Glen - Buffalo - Rochester - Syracuse - Albany  
New York - Woodbridge - Harrisburg - Washington

**GROUNDWATER MONITORING SURVEY**  
Saratoga Research & Development Center

DR BY: MR-L | SCALE: 1"=200' | PROJ. NO.:  
CND BY: | DATE: 8-10-83 | DWG NO: 1

# **SOLID WASTE TREATMENT EXISTING LANDFILL OPERATION**

The existing landfill operation uses three separate sites. These sites are shown on the Site Analysis map as D-1, D-2 and D-3. Existing tenants are individually responsible for their own solid waste management. Table D-1 summarizes the existing on-site solid waste generation.

## **description**

### **INCINERATOR (Map Reference D-1)**

Disposal of readily burnable material such as office paper, cardboard cartons, etc. The incinerator is an open pit consisting of a cylindrical sheet metal casing 25 feet in diameter and 15 feet deep set down into the ground. (area = 500 SF). When inspected, the pit was completely filled with material, the top layer consisting of unburned material described above. Being filled to the top, containment was only partially achieved as evidenced by material being blown into the surrounding area. Wright-Malta retains a burning permit for this operation. Material is left exposed until burned. Pit requires periodic cleaning of accumulated ashes and partially burned debris.

### **WASTE DUMP (Map Reference D-2)**

Disposal of all non-salvagable and not readily burned material from building renovation and other on-site projects such as concrete and concrete block, scrap wood, scrap metal siding, cardboard and wood cartons, etc., generally items too large for dumpster collection. The dump is a low flat area approximately 75 feet x 150 feet (area = 11,250 SF). Accumulated material is estimated to be 3 to 4 feet deep. Material was exposed and not consolidated when inspected. Some attempt is made to cover the material using on-site sandy soil, but this is not done on a regular basis.

### **EARTH AND TREE DUMP (Map Reference D-3)**

Disposal of dirt, trees, stumps, building construction waste, rocks, and large broken pieces of reinforced concrete highway slab from occasional use by NYSDOT. The dump is an area approximately 160 feet x 160 feet (area = 25,600 SF) located in a ravine some 30 feet deep. Material is dumped, spread, and consolidated as ravine is gradually filled to approximate road elevation.

## **evaluation**

The over-all solid waste disposal operation described in the previous paragraphs shall be evaluated with respect to New York State Department of Environmental Conservation regulations under Part 360, Solid Waste Management Facilities, dated May 17, 1977.

Since the material for all three sites is composed of non-putrescible material, the deposition of such material would fall under "exemptions" as provided in Part 360 referenced previously. Requirements for such exemption are stated in the following quote from Part 360 regulation:

"Sites used solely for the deposition of non-putrescible construction and demolition debris are exempt from this Part provided that:

- (i) the proposed site is used exclusively for inert, non-putrescible construction and demolition debris, and
- (ii) written exemption from the Department is obtained prior to deposition of any debris pursuant to an application for an exemption submitted to the Department indicating the location of the proposed site, the estimated total volume of such debris to be deposited, the specific materials constituting the debris, the estimated duration of use of the site, and a proposal for compaction, cover and final closure of the site, or
- (iii) said site falls under the jurisdiction of the New York State Department of Transportation and meets said Department's specifications for such facilities which have been reviewed by this Department. A Memorandum of Understanding may be entered into between the Department of Transportation and the Department of Environmental Conservation with respect to the purpose of this Part."



TABLE D-1  
SOLID WASTE DISPOSAL SUMMARY

| Tenant        | Kind of Material                                                                                                                                                                              | Amount                      | Method of Disposal                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|
| MTI           | 1- Office scrap paper, cartons, miscellaneous small size scrap wood and metal                                                                                                                 | 1 dumpster per week         | Tony Provo Rubbish Removal Service from Saratoga |
|               | 2- Scrap material too large for dumpster, such as wood, cartons, pipe and angle iron<br><br>NOTE: Future rental of warehouse #11 to be used for storage of salvageable items in item 2 above. | sporadic                    | Deposited on-site in waste dump                  |
| PTI           | 1- Trash such as cartons and wood                                                                                                                                                             | 1 dumpster every 3-6 months | Deposited on-site in waste dump                  |
|               | 2- Scrap steel and conductor material                                                                                                                                                         | sporadic                    | Stored and/or sold to scrap metal dealers        |
| Exxon-Nuclear | 1- Miscellaneous paper, cartons, trash                                                                                                                                                        | 1 dumpster per week         | Parker Rubbish Removal Service                   |
|               | 2- Scrap metal                                                                                                                                                                                | 1800 lbs/yr                 | Sold to Cohoes dealer                            |
| Wright-Malta  | 1- Paper, cardboard, etc.                                                                                                                                                                     | 6 cu. yd/wk                 | Burned in incinerator                            |
|               | 2- Scrap concrete block, wire, etc.                                                                                                                                                           | sporadic                    | Waste dump                                       |
|               | 3- Scrap metals (steel, aluminum, turnings)                                                                                                                                                   | 1 cu. yd/wk                 | Metals dump and sold to Barbetta, in Colonie     |
|               | 4- Brass casings from Ordnance testing                                                                                                                                                        |                             | Returned to Arsenal                              |

For continued use of the existing landfill operation, it would first be necessary to submit applications for Part 360 exemption with NYSDEC in accordance with paragraph (ii) for each of the two dump sites. Secondly, a regular program of compaction and application of cover material should be employed on each site. Thirdly, the Incineration (D-1) operation should be abandoned (references to this item to follow). Also, see "Environmental Planning" section in Chapter E of this report.

## **recommendations for future development**

Operation of an on-site landfill for the use of the Center is not a viable alternative for solid waste disposal.

It has been repeatedly demonstrated in comprehensive solid waste planning studies, that small local landfill operations are far more costly than regional or consolidated sanitary landfill operations utilizing transfer stations. Relatively recent NYSDEC Part 360 regulations for Solid Waste Management Facilities are such that costs for the development and operation of small, local landfill sites are becoming more and more prohibitive.

The following recommendations are submitted for the future development of the site if an on-site landfill operation were to be employed. This alternative, however, is not recommended.

### **1. DISCONTINUE USE OF INCINERATOR (D-1).**

The incinerator operation currently employs open burning. In relation to landfill operations, open burning is prohibited under Part 360 regulations unless a permit is issued under Part 215 of the regulations. Regulations governing construction and operation of incinerators for purposes of air pollution control are set forth in Parts 201, 219, and 222. Open burning is not a viable alternative to solid waste disposal for this site.

### **2. DISCONTINUE THE USE OF THE WASTE DUMP (D-2).**

Since the present location of the Waste Dump (D-2) is in conflict with the proposed future land use of the site (Area 6) it is recommended that this dump be abandoned by the implementation of proper closure procedures.

### **3. DISCONTINUE THE USE OF EARTH AND TREE DUMP (D-3).**

The location of this dump is such that a ravine is being filled. The lower portion of this ravine contains a natural drainage course in the form of an intermittent stream which runs through the ecologically sensitive portion of the site. This location is also situated on the main entrance road in such fashion that a landfill operation would be extremely detrimental to the future development of sites along this road. It is therefore recommended that the Earth and Tree Dump (D-3) be abandoned by the implementation of appropriate closure procedure.

### **4. DEVELOP ONE LANDFILL SITE.**

Select a site within Area 10 (shown on Site Analysis map) for the development of a single landfill site. Limit waste material to be deposited to non-putrescible materials. Submit application for a Part 360 exemption as outlined previously. Employ proper compaction and cover procedures.

If solid waste from future development is to contain putrescible materials, exemption to Part 360 would not apply. Development of the landfill would then be subject to Part 360 regulations. These regulations have requirements such as hydrological, climatological and geological investigation, gas venting, monitoring wells, compaction procedure, daily cover procedures, fire protection, plan for land use of completed landfill, and trained personnel for its operation.

To reiterate, development of an on-site sanitary landfill is not recommended.

## **EXISTING METAL RECLAMATION**

The existing metal reclamation operation entails the use of three separate sites. The location of these sites is shown on the Site Analysis Map as S-1, S-2, and S-3. Existing tenants carry out their own metal reclamation efforts on an individual basis. Table D-1 summarizes the existing on-site metal reclamation operations. A description and evaluation of these operations follows:

### **description**

#### **METALS DUMP (Map Reference S-1)**

Storage of scrap metal such as pipe, drums, angle iron, paint cans, and metal lathe turnings. The dump is a flat area approximately 75 feet x 150 feet (area = 11,250 SF). Scrap metal is stored in this area until sold.

#### ALL-PURPOSE STORAGE (Map Reference S-2)

Storage of miscellaneous metal such as steel drums, tank or bulldozer tracks, etc. This area is approximately 100 feet square on level ground. (area = 10,000 SF) and it is used only occasionally as the need arises.

#### METAL SCRAP PIPE (Map Reference S-3)

Storage of miscellaneous scrap metal such as piping, tanks, wire, etc. This material has been collected from the entire site over the past four years. It is anticipated that this material will be sold by NYSDERDA in the near future. This storage area is approximately 60 feet x 270 feet on level ground (area = 16,200 SF).

## evaluation

The over-all metal reclamation operation described above shall now be evaluated with respect to ordinances governing such operations as listed below:

1. New York State Legislation. A listing of New York State Waste Laws reveals legislation pertaining to junk dealers and auto junk yards; however, there is no reference to metal reclamation as it is being carried out on-site.
2. Saratoga County. There is no existing County regulation pertaining to metal reclamation activities.
3. Town of Malta. Town zoning ordinance regulates junk yard activity. Existing on-site conditions are in substantial conformity with these regulations (Reference Article 4, Section 8a.). Paragraph (iv.) requires that a special permit be granted by the Board of Appeals as provided in Article 9; however, applicability of this requirement for State-owned land is to be considered.
4. Occupational Safety and Health Administration. OSHA has no jurisdiction over State or local municipality activities. OSHA regulations could serve as useful guidelines to such activities. There is no one set of regulations pertaining directly to metal reclamation, however, there are some general OSHA regulations which would apply to this activity, such as the cutting and burning of metals, ingress/egress, fire protection, walking and working surfaces, material handling and storage, etc.

The present operation does not appear to be in conflict with OSHA regulations. However, any significant expansion of the operation should be done using these regulations as guidelines.

5. N.Y.S. Department of Environmental Conservation — Bureau of Resource Recovery. A NYSDEC publication, dated August, 1977, entitled "Solid Waste Management Facility — Content Guidelines for Plans and Specifications" provides guidelines for the development of solid waste management plans and reports to aid an applicant in satisfying requirements of Part 360. Two sections of this publication pertain to metal reclamation operations, and are entitled "Guidelines Applicable to All Facilities" and "Resource Recovery and Processing Facility Guidelines". These two sections identify necessary requirements pursuant to obtaining a permit for the construction and operation of a resource recovery operation.

In relation to the present operation, it is recommended that a representative from NYSDEC, Region 5 Office visit the site to determine whether or not the present operation is to be considered a resource operation, and thus whether or not a DEC permit would be necessary. Any necessary deficiencies or corrective measures could then be initiated through the direction of the Region 5 representative.

## existing metal reclamation combined with solid waste energy recovery system

The feasibility of combining existing metal reclamation with a solid waste fuel source facility depends mainly on the amount of salvagable scrap metal that is generated from present tenants. In reviewing the existing operation, it is quite evident that a significant portion of the ferrous material resulting from present activities is material that tenants tend to store for future use, rather than remove for sale to scrap metal dealers. This significant portion leaves only minimal amounts of scrap metal which would contribute to a solid waste fuel source facility. This minimal amount would have very little bearing on the over-all feasibility of operating a solid waste fuel source facility, since it would be very small in relation to the amount of ferrous produced from the municipal solid waste being processed.

Salvageable ferrous generated in the future as the Center is developed could become a significant factor in a solid waste fuel source facility, depending upon the type of research and development being done by the tenants.

## **cost benefit analysis**

A cost benefit analysis comparing present metal reclamation with that of the solid waste fuel source facility is unwarranted due to the low generation rate of ferrous material as explained previously.

## **EXISTING CHEMICAL WASTE**

### **buried chemical wastes**

The locations of chemical wastes believed to be buried at the Center are identified as "Container Burial" areas. These areas are shown on the Site Analysis map as D-4 and D-5.

Material consists of 5-gallon and 50-gallon empty steel drums buried approximately 10 feet deep. In the 1950's and 1960's drums containing various chemicals were punctured, ignited, and then buried. Holes for burial were dug and backfilled on an individual basis as they were needed. In the 1950's drums containing pentaborane residual and other chemicals were disposed of in Area D-5 using this method of disposal. In the 1960's drums containing sodium, potassium and other chemicals were brought on-site by the General Electric Company and disposed of in the same manner.

Area D-4 is approximately 160 feet x 180 feet (area = 28,800 SF). Area D-5 is approximately 100 feet x 160 feet (area = 16,000 SF). Both areas are relatively flat and contain grass vegetation native to the area in general. A pungent odor was apparent in Area D-5 which is also marked off with several small deteriorated metal warning signs.

Consultation with NYSDEC Bureau of Hazardous Waste, 50 Wolf Road, Albany, N. Y., yielded the following information:

1. NYSDEC has no set procedure or regulation governing abandoned hazardous waste sites.
2. NYSDEC has limited capability for investigating such sites, but would try to have their resident chemist visit the Center.
3. NYSDEC recommended procedure:
  - Obtain soil samples and analyze for various parameters.
  - Install monitoring wells for ground water analyses.
  - Take corrective measures which would be based upon the results of the analyses described above.

It is recommended that in addition to the above procedures, the extent of the areas in question be clearly identified in the field. These areas should then be fenced off and excluded from future development until testing and corrective measures are completed. Such action would not be detrimental to the over-all development and use of the Center in general.

### **above-ground chemical wastes**

The location of existing above-ground chemical wastes is identified as Chemical Storage Pad. This location is shown on the Site Analysis map as S-4.

Material consists of 5-gallon metal containers and 50-gallon drums filled with residual propellants, unsymmetrical dimethyl hydrozene, and ozone. Samples are currently being tested under the auspices of NYSDA. Material is scheduled to be removed from site and deposited in a licensed disposal ground under jurisdiction of NYSDEC. Empty wooden cable reels are also stored in this area. Containers and reels are stored on and near a 20 feet x 30 feet concrete pad. (area = 600 SF).

Since the containers are to be removed from the site, removal of the empty cable reels as well would entirely clear the area. This area should be included in the fenced off portion of the site as discussed above under Buried Chemical Wastes.

**APPENDIX E**  
**CHEMICAL DATA**

**SEPTIC TANK RESULTS**

Table E-1. Summary of Septic Tank Results Malta Rocket Fuel Area Towns of Malta and Stillwater, Saratoga County, New York January, 1987.

| Sample ID:                 | GE-S     | GE-T     | PT-S     | PT-T     |
|----------------------------|----------|----------|----------|----------|
| Parameter                  |          |          |          |          |
| Methylene Chloride         | BDL      | BDL      | BDL      | BDL      |
| 1,1-Dichloroethylene       | BDL      | BDL      | BDL      | BDL      |
| 1,1-Dichloroethane         | BDL      | BDL      | 6.8      | BDL      |
| trans-1,2-Dichloroethylene | BDL      | BDL      | 170      | BDL      |
| Chloroform                 | BDL      | BDL      | BDL      | BDL      |
| 1,2-Dichloroethane         | BDL      | 2.4      | BDL      | 1.2      |
| 1,1,1-Trichloroethane      | BDL      | BDL      | BDL      | BDL      |
| Carbon Tetrachloride       | BDL      | 5.8      | 14       | 2.9      |
| Bromodichloromethane       | BDL      | BDL      | BDL      | BDL      |
| 1,2-Dichloropropane        | BDL      | BDL      | BDL      | BDL      |
| Bromomethane               | BDL      | BDL      | BDL      | BDL      |
| Chloroethane               | BDL      | BDL      | BDL      | BDL      |
| Dichlorodifluoromethane    | BDL      | BDL      | BDL      | BDL      |
| trans-1,3-Dichloropropene  | BDL      | BDL      | BDL      | BDL      |
| Trichloroethylene          | BDL      | BDL      | BDL      | BDL      |
| 1,1,2-Trichloroethane      | BDL      | 7.7      | BDL      | 5.5      |
| Dibromochloromethane       | BDL      | BDL      | BDL      | BDL      |
| cis-1,3-Dichloropropene    | BDL      | BDL      | BDL      | BDL      |
| 2-Chloroethylvinylether    | BDL      | BDL      | BDL      | BDL      |
| Bromoform                  | BDL      | BDL      | BDL      | BDL      |
| 1,1,2,2-Tetrachloroethane  | BDL      | BDL      | BDL      | BDL      |
| Tetrachloroethylene        | BDL      | BDL      | BDL      | BDL      |
| Chlorobenzene              | BDL      | BDL      | BDL      | BDL      |
| Vinyl Chloride             | BDL      | BDL      | BDL      | BDL      |
| 1,2-Dichlorobenzene        | BDL      | BDL      | BDL      | BDL      |
| 1,3-Dichlorobenzene        | BDL      | BDL      | BDL      | BDL      |
| 1,4-Dichlorobenzene        | BDL      | BDL      | BDL      | BDL      |
| Chloromethane              | BDL      | BDL      | BDL      | BDL      |
| Trichlorofluoromethane     | BDL      | BDL      | BDL      | BDL      |
| Benzene                    | ND       | ND       | ND       | ND       |
| Toluene                    | 96       | 13       | 19       | ND       |
| Ethyl Benzene              | ND       | ND       | ND       | ND       |
| Xylenes                    | ND       | ND       | 12       | ND       |
| Monochlorobenzene          | ND       | ND       | ND       | ND       |
| 1,3-Dichlorobenzene        | ND       | ND       | ND       | ND       |
| 1,4-Dichlorobenzene        | ND       | ND       | ND       | ND       |
| 1,2-Dichlorobenzene        | ND       | ND       | ND       | ND       |
| Residual Chlorine          | 0.00 (2) | 0.01 (2) | 0.02 (2) | 0.08 (2) |

(1) Concentrations are in ug/L unless noted.

(2) Concentrations are in mg/L.



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Northeast Region  
4 Mill Street, Greenville, NH 03048  
(603) 878-2500  
NE Area (800) 423-6153  
In NH (800) 922-3422

Wayne Kant  
Groundwater Technology  
1641 Central Ave.  
Albany, N.Y. 12205

Report Date 2/17/87  
Project # 11-8159-1  
Site Location Malta, New York  
Sampling Date 1/12/87

The enclosed data reports the analysis of water samples from the above referenced site for the parameters specified by EPA Method 602. Analysis was performed by gas chromatography with flame ionization detector.

Samples were received in good condition unless specified otherwise in the analytical results. The analysis and precision of the analytical results are monitored through an extensive laboratory QA program. Method Detection Limits are reviewed periodically to ensure their validity; adjustments to the Method Detection Limits due to sample dilutions are noted in the analytical results.

Prepared by:

*Robert D. Eglington for BE*

Bob Edwards  
GC Lab Manager

E.K.  
Analyst





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Northeast Region  
4 Mill Street, Greenville, NH 03048  
(603) 878-2500  
NE Area (800) 423-6153  
In NH (800) 922-3422

Wayne Kant  
Groundwater Technology  
1641 Central Ave.  
Albany, N.Y. 12205

Report Date 1/30/87  
Project # 11-8159-1  
Project Name Nyserta  
Site Location Malta, New York  
Sampling Date 1/12/87

The enclosed data reports the analysis of water samples for purgeable halocarbons. The analytical method used conforms to the EPA 601 protocol, and uses purge and trap gas chromatography with Hall Electrolytic Conductivity Detection. GTEL employs a quality assurance program to ensure the accuracy and validity of all analytical results.

Bob Edwards

A handwritten signature in cursive script that reads 'Bob Edwards'.

GC Lab Manager



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Northeast Region  
4 Mill Street, Greenville, NH 03048  
(603) 878-2500  
NE Area (800) 423-6153  
In NH (800) 922-3422

Purgeable Halocarbons

Sample I.D. GE-S (37451)

Report No. 11-8159-1

Date Run 1/26/87

| <u>Compound</u>            | <u>Analytical Result, ug/L</u> | <u>Method Detection Limit ug/L</u> |
|----------------------------|--------------------------------|------------------------------------|
| Methylene Chloride         | BDL                            | 0.25                               |
| 1,1-Dichloroethylene       | BDL                            | 0.13                               |
| 1,1-Dichloroethane         | BDL                            | 0.07                               |
| trans-1,2-Dichloroethylene | BDL                            | 0.10                               |
| Chloroform                 | BDL                            | 0.05                               |
| 1,2-Dichloroethane         | BDL                            | 0.03                               |
| 1,1,1-Trichloroethane      | BDL                            | 0.03                               |
| Carbon Tetrachloride       | BDL                            | 0.12                               |
| Bromodichloromethane       | BDL                            | 0.10                               |
| 1,2-Dichloropropane        | BDL                            | 0.04                               |
| Bromomethane               | BDL                            | 1.18                               |
| Chloroethane               | BDL                            | 0.52                               |
| Dichlorodifluoromethane    | BDL                            | 1.81                               |
| trans-1,3-Dichloropropene  | BDL                            | 0.34                               |
| Trichloroethylene          | BDL                            | 0.12                               |
| 1,1,2-Trichloroethane      | BDL                            | 0.02                               |
| Dibromochloromethane       | BDL                            | 0.09                               |
| cis-1,3-Dichloropropene    | BDL                            | 0.20                               |
| 2-Chloroethylvinylether    | BDL                            | 0.13                               |
| Bromoform                  | BDL                            | 0.20                               |
| 1,1,2,2-Tetrachloroethane  | BDL                            | 0.03                               |
| Tetrachloroethylene        | BDL                            | 0.03                               |
| Chlorobenzene              | BDL                            | 0.25                               |
| Vinyl Chloride             | BDL                            | 0.18                               |
| 1,2-Dichlorobenzene        | BDL                            | 0.15                               |
| 1,3-Dichlorobenzene        | BDL                            | 0.32                               |
| 1,4-Dichlorobenzene        | BDL                            | 0.24                               |
| Chloromethane              | BDL                            | 0.52                               |
| Trichlorofluoromethane     | BDL                            | ---                                |



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Purgeable Halocarbons

Sample I.D. GE-T (37452)

Report No. 11-8159-1

Date Run 1/26/87

| <u>Compound</u>            | <u>Analytical Result, ug/L</u> | <u>Method Detection Limit ug/L</u> |
|----------------------------|--------------------------------|------------------------------------|
| Methylene Chloride         | BDL                            | 0.25                               |
| 1,1-Dichloroethylene       | BDL                            | 0.13                               |
| 1,1-Dichloroethane         | BDL                            | 0.07                               |
| trans-1,2-Dichloroethylene | BDL                            | 0.10                               |
| Chloroform                 | BDL                            | 0.05                               |
| 1,2-Dichloroethane         | 2.4                            | 0.03                               |
| 1,1,1-Trichloroethane      | BDL                            | 0.03                               |
| Carbon Tetrachloride       | 5.8                            | 0.12                               |
| Bromodichloromethane       | BDL                            | 0.10                               |
| 1,2-Dichloropropane        | BDL                            | 0.04                               |
| Bromomethane               | BDL                            | 1.18                               |
| Chloroethane               | BDL                            | 0.52                               |
| Dichlorodifluoromethane    | BDL                            | 1.81                               |
| trans-1,3-Dichloropropene  | BDL                            | 0.34                               |
| Trichloroethylene          | BDL                            | 0.12                               |
| 1,1,2-Trichloroethane      | 7.7                            | 0.02                               |
| Dibromochloromethane       | BDL                            | 0.09                               |
| cis-1,3-Dichloropropene    | BDL                            | 0.20                               |
| 2-Chloroethylvinylether    | BDL                            | 0.13                               |
| Bromoform                  | BDL                            | 0.20                               |
| 1,1,2,2-Tetrachloroethane  | BDL                            | 0.03                               |
| Tetrachloroethylene        | BDL                            | 0.03                               |
| Chlorobenzene              | BDL                            | 0.25                               |
| Vinyl Chloride             | BDL                            | 0.18                               |
| 1,2-Dichlorobenzene        | BDL                            | 0.15                               |
| 1,3-Dichlorobenzene        | BDL                            | 0.32                               |
| 1,4-Dichlorobenzene        | BDL                            | 0.24                               |
| Chloromethane              | BDL                            | 0.52                               |
| Trichlorofluoromethane     | BDL                            | ---                                |



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Purgeable Halocarbons

Sample I.D. PT-S (37453)

Report No. 11-8159-1

Date Run 1/26/87

| <u>Compound</u>            | <u>Analytical Result, ug/L</u> | <u>Method Detection Limit ug/L</u> |
|----------------------------|--------------------------------|------------------------------------|
| Methylene Chloride         | BDL                            | 0.25                               |
| 1,1-Dichloroethylene       | BDL                            | 0.13                               |
| 1,1-Dichloroethane         | 6.8                            | 0.07                               |
| trans-1,2-Dichloroethylene | 170                            | 0.10                               |
| Chloroform                 | BDL                            | 0.05                               |
| 1,2-Dichloroethane         | BDL                            | 0.03                               |
| 1,1,1-Trichloroethane      | BDL                            | 0.03                               |
| Carbon Tetrachloride       | 14                             | 0.12                               |
| Bromodichloromethane       | BDL                            | 0.10                               |
| 1,2-Dichloropropane        | BDL                            | 0.04                               |
| Bromomethane               | 2.2                            | 1.18                               |
| Chloroethane               | BDL                            | 0.52                               |
| Dichlorodifluoromethane    | BDL                            | 1.81                               |
| trans-1,3-Dichloropropene  | BDL                            | 0.34                               |
| Trichloroethylene          | BDL                            | 0.12                               |
| 1,1,2-Trichloroethane      | BDL                            | 0.02                               |
| Dibromochloromethane       | BDL                            | 0.09                               |
| cis-1,3-Dichloropropene    | BDL                            | 0.20                               |
| 2-Chloroethylvinylether    | BDL                            | 0.13                               |
| Bromoform                  | BDL                            | 0.20                               |
| 1,1,2,2-Tetrachloroethane  | BDL                            | 0.03                               |
| Tetrachloroethylene        | BDL                            | 0.03                               |
| Chlorobenzene              | BDL                            | 0.25                               |
| Vinyl Chloride             | BDL                            | 0.18                               |
| 1,2-Dichlorobenzene        | BDL                            | 0.15                               |
| 1,3-Dichlorobenzene        | BDL                            | 0.32                               |
| 1,4-Dichlorobenzene        | BDL                            | 0.24                               |
| Chloromethane              | BDL                            | 0.52                               |
| Trichlorofluoromethane     | BDL                            | ---                                |

# GT Environmental Laboratories

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4 Mill Street, Greenville, NH 03048  
(603) 878-2500  
NE Area (800) 423-6153  
In NH (800) 922-3422

## Purgeable Halocarbons

Sample I.D. PT-T (37454)

Report No. 11-8159-1

Date Run 1/26/87

| <u>Compound</u>            | <u>Analytical Result, ug/L</u> | <u>Method Detection Limit ug/L</u> |
|----------------------------|--------------------------------|------------------------------------|
| Methylene Chloride         | BDL                            | 0.25                               |
| 1,1-Dichloroethylene       | BDL                            | 0.13                               |
| 1,1-Dichloroethane         | BDL                            | 0.07                               |
| trans-1,2-Dichloroethylene | BDL                            | 0.10                               |
| Chloroform                 | BDL                            | 0.05                               |
| 1,2-Dichloroethane         | 1.2                            | 0.03                               |
| 1,1,1-Trichloroethane      | BDL                            | 0.03                               |
| Carbon Tetrachloride       | 2.9                            | 0.12                               |
| Bromodichloromethane       | BDL                            | 0.10                               |
| 1,2-Dichloropropane        | BDL                            | 0.04                               |
| Bromomethane               | BDL                            | 1.18                               |
| Chloroethane               | BDL                            | 0.52                               |
| Dichlorodifluoromethane    | BDL                            | 1.81                               |
| trans-1,3-Dichloropropene  | BDL                            | 0.34                               |
| Trichloroethylene          | BDL                            | 0.12                               |
| 1,1,2-Trichloroethane      | 5.5                            | 0.02                               |
| Dibromochloromethane       | BDL                            | 0.09                               |
| cis-1,3-Dichloropropene    | BDL                            | 0.20                               |
| 2-Chloroethylvinylether    | BDL                            | 0.13                               |
| Bromoform                  | BDL                            | 0.20                               |
| 1,1,2,2-Tetrachloroethane  | BDL                            | 0.03                               |
| Tetrachloroethylene        | BDL                            | 0.03                               |
| Chlorobenzene              | BDL                            | 0.25                               |
| Vinyl Chloride             | BDL                            | 0.18                               |
| 1,2-Dichlorobenzene        | BDL                            | 0.15                               |
| 1,3-Dichlorobenzene        | BDL                            | 0.32                               |
| 1,4-Dichlorobenzene        | BDL                            | 0.24                               |
| Chloromethane              | BDL                            | 0.52                               |
| Trichlorofluoromethane     | BDL                            | ---                                |



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**Northeast Region**

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NE Area (800) 423-6153

In NH (800) 922-3422

**GAS CHROMATOGRAPHIC ANALYSIS-EPA/602 IN WATER**  
**REPORT NO. 11-8159-1**

| Sample I.D. | DATE<br>SAMPLED | DATE<br>RUN | BENZENE | TOLUENE | ETHYL<br>BENZENE | XYLENES | MONO<br>CHLORO<br>BENZENE |
|-------------|-----------------|-------------|---------|---------|------------------|---------|---------------------------|
| 37451       | GE-S            | 1/12/87     | 1/26/87 | ND      | 96               | ND      | ND                        |
| 37452       | GE-T            | 1/12/87     | 1/26/87 | ND      | -13              | ND      | ND                        |
| 37453       | PT-S            | 1/12/87     | 1/26/87 | ND      | 19               | ND      | ND                        |
| 37454       | PT-T            | 1/12/87     | 1/26/87 | ND      | ND               | ND      | ND                        |

**\*NOTES:**

ND = NONE DETECTED



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In NH (800) 922-3422

GAS CHROMATOGRAPHIC ANALYSIS-EPA/602 IN WATER  
REPORT NO. 11-8159-1

| SAMPLE NO. | I.D. | 1,3-DICHLORO<br>BENZENE | 1,4-DICHLORO<br>BENZENE | 1,2-DICHLORO<br>BENZENE |
|------------|------|-------------------------|-------------------------|-------------------------|
| 37451      | GE-S | ND                      | ND                      | ND                      |
| 37452      | GE-T | ND                      | ND                      | ND                      |
| 37453      | PT-S | ND                      | ND                      | ND                      |
| 37454      | PT-T | ND                      | ND                      | ND                      |

\*NOTES:

EXCEPTION: SAMPLES WERE ANALYZED AFTER RECOMMENDED 7 DAY HOLDING TIME.



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Northeast Region  
4 Mill Street, Greenville, NH 03048  
(603) 878-2500  
NE Area (800) 423-6153  
In NH (800) 922-3422

Name: G.T. Environmental Laboratories  
Address: Northeast Region, 4 Mill St.  
City: Greenville  
State: N.H. Zip: 03048

Sample Location: See Below

Date: Feb. 4, 1987  
Customer Sample Number:  
Invoice Number: 3983

Test

Results

Limits

RESIDUAL CHLORINE

|      |           |
|------|-----------|
| GE-S | 0.00 mg/l |
| GE-T | 0.01 mg/l |
| PT-T | 0.02 mg/l |
| PT-S | 0.08 mg/l |

Chemist: Eric J. Koslowski



Table E-2. Summary of Septic Tank and Sludge Results, Malta Rocket Fuel Area Site,  
Towns of Malta and Stillwater, Saratoga County, New York, October, 1987.

| Parameter                 | PTI 1<br>Septic | MTI 1<br>Septic | GE 2<br>Sludge | MTI 2<br>Sludge | PTI 2<br>Sludge |
|---------------------------|-----------------|-----------------|----------------|-----------------|-----------------|
| Chloromethane             | BDL             | BDL             | BDL            | BDL             | BDL             |
| Bromomethane              | BDL             | BDL             | BDL            | BDL             | BDL             |
| Vinyl chloride            | BDL             | BDL             | BDL            | BDL             | BDL             |
| Chloroethane              | BDL             | BDL             | BDL            | BDL             | BDL             |
| Methylene chloride        | BDL             | BDL             | BDL            | BDL             | BDL             |
| Trichlorofluoromethane    | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,1-Dichloroethene        | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,1-Dichloroethane        | BDL             | BDL             | BDL            | BDL             | BDL             |
| t-1,2-Dichloroethene      | 1,500           | BDL             | BDL            | BDL             | 25,000          |
| Chloroform                | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,2-Dichloroethane        | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,1,1-Trichloroethane     | BDL             | BDL             | BDL            | BDL             | BDL             |
| Carbon tetrachloride      | BDL             | BDL             | BDL            | BDL             | BDL             |
| Bromodichloromethane      | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,2-Dichloropropane       | BDL             | BDL             | BDL            | BDL             | BDL             |
| t-1,3-Dichloropropene     | BDL             | BDL             | BDL            | BDL             | BDL             |
| Trichloroethene           | BDL             | BDL             | BDL            | BDL             | BDL             |
| Benzene                   | BDL             | BDL             | BDL            | BDL             | BDL             |
| Dibromochloromethane      | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,1,2-Trichloroethane     | BDL             | BDL             | BDL            | BDL             | BDL             |
| c-1,3-Dichloropropene     | BDL             | BDL             | BDL            | BDL             | BDL             |
| 2-Chloroethylvinylether   | BDL             | BDL             | BDL            | BDL             | BDL             |
| Bromoform                 | BDL             | BDL             | BDL            | BDL             | BDL             |
| 1,1,2,2-Tetrachloroethane | BDL             | BDL             | BDL            | BDL             | BDL             |
| Tetrachloroethene         | BDL             | BDL             | BDL            | BDL             | BDL             |
| Toluene                   | 1,300           | 457             | 47,000         | 120             | 3,060           |
| Chlorobenzene             | BDL             | BDL             | BDL            | BDL             | BDL             |
| Ethylbenzene              | 70              | BDL             | BDL            | BDL             | BDL             |

1 - Concentrations are in ug/L.

2 - Concentrations are in ug/kg.

Concentrations in trip blank = BDL.



PO Box 265

298 Riverside Avenue

Rensselaer NY 12144

(518) 434-4546

LABORATORY REPORT

for

N.Y.S. Energy Research & Dev. Auth  
Two Rockefeller Plaza  
Albany, NY 12223

Attention: John Morelli

Purchase Order #: 649

Report date: 11/02/87  
Number of samples analyzed: 8  
AES Project ID: 871016 I



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: N.Y.S. Energy Research &amp; Dev. Auth

Date Sampled: 10/16/87

CLIENT'S SAMPLE ID: P.T.I. Septic

Date sample received: 10/16/87

AES sample #: 871016 104

Samples taken by: T. Abbott

Location: Malta

MATRIX: waste water

grab

| PARAMETER PERFORMED    | METHOD  | RESULT | UNITS | NOTEBOOK REF | TEST DATE |
|------------------------|---------|--------|-------|--------------|-----------|
| Chloromethane          | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22     |
| Bromomethane           | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22     |
| Vinyl chloride         | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22     |
| Chloroethane           | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22     |
| Methylene chloride     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Trichlorofluoromethane | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,1-Dichloroethene     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,1-Dichloroethane     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| t-1,2-Dichloroethene   | EPA-624 | 1500   | ug/l  | MA-D-15      | 10/22     |
| Chloroform             | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,2-Dichloroethane     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,1,1-Trichloroethane  | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Carbon tetrachloride   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Bromodichloromethane   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,2-Dichloropropane    | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| t-1,3-Dichloropropene  | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Trichloroethene        | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Benzene                | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Dibromochloromethane   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,1,2-Trichloroethane  | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |



PO Box 265

238 Riverside Avenue

Rensselaer NY 12144

(518) 434-4546

CLIENT: N.Y.S. Energy Research & Dev. Auth

Date Sampled: 10/16/87

CLIENT'S SAMPLE ID: P.T.I. Septic

Date sample received: 10/16/87

AES sample #: 871016 I04

Samples taken by: T. Abbott

Location: Malta

continued

MATRIX: waste water

grab

| PARAMETER PERFORMED       | METHOD  | RESULT | UNITS | NOTEBOOK REF | TEST DATE |
|---------------------------|---------|--------|-------|--------------|-----------|
| c-1,3-Dichloropropene     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 2-Chloroethylvinylether   | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22     |
| Bromoform                 | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| 1,1,2,2-Tetrachloroethane | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Tetrachloroethene         | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Toluene                   | EPA-624 | 1300   | ug/l  | MA-D-15      | 10/22     |
| Chlorobenzene             | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22     |
| Ethylbenzene              | EPA-624 | 70     | ug/l  | MA-D-15      | 10/22     |



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: N.Y.S. Energy Research &amp; Dev. Auth

Date Sampled: 10/16/87

CLIENT'S SAMPLE ID: M.T.I. Septic

Date sample received: 10/16/87

AES sample #: 871016 105

Samples taken by: T. Abbott

Location: Malta

MATRIX: waste water

grab

| PARAMETER PERFORMED    | METHOD  | RESULT | UNITS | NOTEBOOK REF | TEST DATE |
|------------------------|---------|--------|-------|--------------|-----------|
| Chloromethane          | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22/87  |
| Bromomethane           | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22/87  |
| Vinyl chloride         | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22/87  |
| Chloroethane           | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22/87  |
| Methylene chloride     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Trichlorofluoromethane | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| 1,1-Dichloroethene     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| 1,1-Dichloroethane     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| t-1,2-Dichloroethene   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Chloroform             | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| 1,2-Dichloroethane     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| 1,1,1-Trichloroethane  | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Carbon tetrachloride   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Bromodichloromethane   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| 1,2-Dichloropropane    | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| t-1,3-Dichloropropene  | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Trichloroethene        | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Benzene                | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| Dibromochloromethane   | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |
| 1,1,2-Trichloroethane  | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/87  |



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: N.Y.S. Energy Research &amp; Dev. Auth

Date Sampled: 10/16/87

CLIENT'S SAMPLE ID: M.V.I. Septic

Date sample received: 10/16/87

AES sample #: 871016 I05

Samples taken by: T. Abbott

Location: Malta

continued

MATRIX: waste water

grab

| PARAMETER PERFORMED       | METHOD  | RESULT | UNITS | NOTEBOOK REF | TEST DATE |
|---------------------------|---------|--------|-------|--------------|-----------|
| c-1,3-Dichloropropene     | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/    |
| 2-Chloroethylvinylether   | EPA-624 | <100   | ug/l  | MA-D-15      | 10/22/    |
| Bromoform                 | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/    |
| 1,1,2,2-Tetrachloroethane | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/    |
| Tetrachloroethene         | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/    |
| Toluene                   | EPA-624 | 457    | ug/l  | MA-D-15      | 10/22/    |
| Chlorobenzene             | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/    |
| Ethylbenzene              | EPA-624 | <50    | ug/l  | MA-D-15      | 10/22/    |

APPROVED BY:

Report date: 11/02/87



P.O. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

518) 434-4546

LABORATORY REPORT

for

NYS Energy Research & Dev.  
Agency Building #2  
Empire State Plaza  
Albany, NY 12223

Attention: John Morelli

Purchase Order #: A674  
Revised Copy

Report date: 01/05/88  
Number of samples analyzed: 4  
AES Project ID: 871211 M



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/97

CLIENT'S SAMPLE ID: G.E. SLUDGE

Date sample received: 12/11/97

AES sample #: 871211 M01

Samples taken by: Tom Abbott

Location: Malta

MATRIX: sludge

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTES/REF</u> | <u>TEST</u> |
|----------------------------|---------------|---------------|--------------|------------------|-------------|
| Chloromethane              | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/1        |
| Bromomethane               | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/1        |
| Vinyl Chloride             | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/1        |
| Chloroethane               | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/1        |
| Methylene Chloride         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Trichlorofluoromethane     | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,1 Dichloroethene         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,1 Dichloroethane         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| t-1,2 Dichloroethene       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Chloroform                 | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,2 Dichloroethane         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,1,1 Trichloroethane      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Carbon Tetrachloride       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Bromodichloromethane       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,2 Dichloropropane        | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| t-1,3 Dichloropropene      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Trichloroethene            | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Benzene                    | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Dibromochloromethane       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,1,2 Trichloroethane      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |





PO Box 265                      298 Riverside Avenue                      Rensselaer, NY 12144                      (518) 434-4546  
CLIENT: NYS Energy Research & Dev.                      Date Sampled: 12/11/87  
CLIENT'S SAMPLE ID: G.E. SLUDGE                      Date sample received: 12/11/87  
AES sample #: 871211 M01                      Samples taken by: Tom Abbott                      Location: Malta  
                                         continued                      MATRIX: sludge                      grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTEBOOK REF</u> | <u>TEST</u> |
|----------------------------|---------------|---------------|--------------|---------------------|-------------|
| c-1,3 Dichloropropene      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31           | 12/11       |
| 2-Chloroethylvinylether    | EPA-8240      | <2000         | ug/kg        | GCMS-B-31           | 12/11       |
| Bromoform                  | EPA-8240      | <1000         | ug/kg        | GCMS-B-31           | 12/11       |
| 1,1,2,2 Tetrachloroethane  | EPA-8240      | <1000         | ug/kg        | GCMS-B-31           | 12/11       |
| Tetrachloroethene          | EPA-8240      | <1000         | ug/kg        | GCMS-B-31           | 12/11       |
| Toluene                    | EPA-8240      | 47,000        | ug/kg        | GCMS-B-31           | 12/11       |
| Chlorobenzene              | EPA-8240      | <1000         | ug/kg        | GCMS-B-31           | 12/11       |
| Ethylbenzene               | EPA-8240      | <1000         | ug/kg        | GCMS-B-31           | 12/11       |



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/8

CLIENT'S SAMPLE ID: MTI SLUDGE

Date sample received: 12/11/8

AES sample #: 371211 M02

Samples taken by: Tom Abbott

Location: Malta

MATRIX: sludge

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTEBOOK</u> | <u>REF</u> | <u>TEST</u> |
|----------------------------|---------------|---------------|--------------|-----------------|------------|-------------|
| Chloromethane              | EPA-8240      | <2000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Bromomethane               | EPA-8240      | <2000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Vinyl Chloride             | EPA-8240      | <2000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Chloroethane               | EPA-8240      | <2000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Methylene Chloride         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Trichlorofluoromethane     | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| 1,1 Dichloroethene         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| 1,1 Dichloroethane         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| t-1,2 Dichloroethene       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Chloroform                 | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| 1,2 Dichloroethane         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| 1,1,1 Trichloroethane      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Carbon Tetrachloride       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Bromodichloromethane       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| 1,2 Dichloropropane        | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| t-1,3 Dichloropropene      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Trichloroethene            | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| Benzene                    | EPA-8020      | <100          | ug/kg        | GCMS-B-31       |            | 12/         |
| Dibromochloromethane       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |
| 1,1,2 Trichloroethane      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31       |            | 12/         |



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/87

CLIENT'S SAMPLE ID: MTI SLUDGE

Date sample received: 12/11/87

AES sample #: 871211 M02

Samples taken by: Tom Abbott

Location: Malta

continued

MATRIX: sludge

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTES/REF</u> | <u>TEST #</u> |
|----------------------------|---------------|---------------|--------------|------------------|---------------|
| c-1,3 Dichloropropene      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/01         |
| 2-Chloroethylvinylether    | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/01         |
| Bromoform                  | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/01         |
| 1,1,2,2 Tetrachloroethane  | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/01         |
| Tetrachloroethene          | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/01         |
| Toluene                    | EPA-8020      | 120           | ug/kg        | GCMS-B-31        | 12/01         |
| Chlorobenzene              | EPA-8020      | <100          | ug/kg        | GCMS-B-31        | 12/01         |
| Ethylbenzene               | EPA-8020      | <100          | ug/kg        | GCMS-B-31        | 12/01         |



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/97

CLIENT'S SAMPLE ID: PTI SLUDGE

Date sample received: 12/11/97

AES sample #: 871211 M03

Samples taken by: Tom Abbott

Location: Malta

MATRIX: sludge

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTES/REF</u> | <u>TEST</u> |
|----------------------------|---------------|---------------|--------------|------------------|-------------|
| Chloromethane              | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/11       |
| Bromomethane               | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/11       |
| Vinyl Chloride             | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/11       |
| Chloroethane               | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/11       |
| Methylene Chloride         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| Trichlorofluoromethane     | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| 1,1 Dichloroethene         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| 1,1 Dichloroethane         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| t-1,2 Dichloroethene       | EPA-8240      | 25,000        | ug/kg        | GCMS-B-31        | 12/11       |
| Chloroform                 | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| 1,2 Dichloroethane         | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| 1,1,1 Trichloroethane      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| Carbon Tetrachloride       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| Bromodichloromethane       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| 1,2 Dichloropropane        | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| t-1,3 Dichloropropene      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| Trichloroethene            | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| Benzene                    | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| Dibromochloromethane       | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |
| 1,1,2 Trichloroethane      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/11       |



PO. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/87

CLIENT'S SAMPLE ID: PTI SLUDGE

Date sample received: 12/11/87

AES sample #: 871211 M03

Samples taken by: Tom Abbott

Location: Malta

continued

MATRIX: sludge

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTES/REF</u> | <u>TEST</u> |
|----------------------------|---------------|---------------|--------------|------------------|-------------|
| c-1,3 Dichloropropene      | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 2-Chloroethylvinylether    | EPA-8240      | <2000         | ug/kg        | GCMS-B-31        | 12/1        |
| Bromoform                  | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| 1,1,2,2 Tetrachloroethane  | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Tetrachloroethene          | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Toluene                    | EPA-8240      | 3060          | ug/kg        | GCMS-B-31        | 12/1        |
| Chlorobenzene              | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |
| Ethylbenzene               | EPA-8240      | <1000         | ug/kg        | GCMS-B-31        | 12/1        |



PO. Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/9

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 12/11/9

AES sample #: 871211 M04

Samples taken by: Tom Abbott

Location: Malta

MATRIX: potable water

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTEBOOK REF</u> | <u>TEST</u> |
|----------------------------|---------------|---------------|--------------|---------------------|-------------|
| Chloromethane              | EPA-624       | <10           | ug/l         | GCMS-B-31           | 12/         |
| Bromomethane               | EPA-624       | <10           | ug/l         | GCMS-B-31           | 12/         |
| Vinyl chloride             | EPA-624       | <10           | ug/l         | GCMS-B-31           | 12/         |
| Chloroethane               | EPA-624       | <10           | ug/l         | GCMS-B-31           | 12/         |
| Methylene chloride         | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| Trichlorofluoromethane     | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| 1,1-Dichloroethene         | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| 1,1-Dichloroethane         | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| t-1,2-Dichloroethene       | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| Chloroform                 | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| 1,2-Dichloroethane         | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| 1,1,1-Trichloroethane      | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| Carbon tetrachloride       | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| Bromodichloromethane       | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| 1,2-Dichloropropane        | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| t-1,3-Dichloropropene      | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| Trichloroethene            | EPA-624       | <5            | mg/l         | GCMS-B-31           | 12/         |
| Benzene                    | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |
| Dibromochloromethane       | EPA-624       | <5            | ug/l         | GCMS-B-M04          | 12/         |
| 1,1,2-Trichloroethane      | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/         |



PO Box 265

298 Riverside Avenue

Rensselaer, NY 12144

(518) 434-4546

CLIENT: NYS Energy Research &amp; Dev.

Date Sampled: 12/11/87

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 12/11/87

AES sample #: 871211 M04

Samples taken by: Tom Abbott

Location: Malta

continued

MATRIX: potable water

grab

| <u>PARAMETER PERFORMED</u> | <u>METHOD</u> | <u>RESULT</u> | <u>UNITS</u> | <u>NOTEBOOK REF</u> | <u>TEST D</u> |
|----------------------------|---------------|---------------|--------------|---------------------|---------------|
| c-1,3-Dichloropropene      | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |
| 2-Chloroethylvinylether    | EPA-624       | <10           | ug/l         | GCMS-B-31           | 12/21         |
| Bromoform                  | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |
| 1,1,2,2-Tetrachloroethane  | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |
| Tetrachloroethene          | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |
| Toluene                    | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |
| Chlorobenzene              | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |
| Ethylbenzene               | EPA-624       | <5            | ug/l         | GCMS-B-31           | 12/21         |

APPROVED BY:

Report date: 01/05/88

GROUND WATER AND SOIL DATA  
1985 GERAGHTY & MILLER STUDIES



TABLE E-3 Summary of Analytical Results for Water Samples Collected at General Electric's Test Facility, Malta, New York. a)

| Parameter                                | Well 1<br>3-19-85 | Well 2<br>3-19-85 | Well 9b)<br>2-12-85 | Well 9c)<br>2-12-85 | Well 9<br>3-19-85 | Well 9c)<br>3-19-85 | Field<br>Blank<br>2-12-85 | Irip<br>Blank<br>2-12-85 | Field<br>Blank<br>3-19-85 | Irip<br>Blank<br>3-19-85 |
|------------------------------------------|-------------------|-------------------|---------------------|---------------------|-------------------|---------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| <u>Volatile Organic Compounds (ug/L)</u> |                   |                   |                     |                     |                   |                     |                           |                          |                           |                          |
| Carbon tetrachloride                     | 23                | 1,100             | 12                  | 12                  | 8                 | 7                   | ND <sup>d)</sup>          | ND                       | ND                        | ND                       |
| Chloroform                               | 2                 | 59                | ND                  | ND                  | ND                | ND                  | 29                        | ND                       | ND                        | ND                       |
| Dichlorobromomethane                     | ND                | ND                | ND                  | ND                  | ND                | ND                  | <10                       | ND                       | ND                        | ND                       |
| Methylene chloride                       | ND                | ND                | 320                 | 180                 | ND                | ND                  | 410                       | 230                      | ND                        | ND                       |
| Toluene                                  | ND                | ND                | ND                  | ND                  | ND                | ND                  | <10                       | ND                       | ND                        | ND                       |
| Trichloroethylene                        | 10                | 240               | <10                 | <10                 | 2                 | 1                   | ND                        | ND                       | ND                        | ND                       |
| <u>Metals (mg/L)</u>                     |                   |                   |                     |                     |                   |                     |                           |                          |                           |                          |
| Antimony                                 | <0.005            | NA <sup>e)</sup>  | <0.001              | NA                  | <0.005            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Arsenic                                  | <0.005            | NA                | 0.05                | NA                  | <0.005            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Beryllium                                | <0.010            | NA                | 0.004               | NA                  | <0.010            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Cadmium                                  | <0.001            | NA                | 0.004               | NA                  | 0.001             | NA                  | NA                        | NA                       | NA                        | NA                       |
| Chromium                                 | <0.025            | NA                | 0.05                | NA                  | <0.025            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Copper                                   | <0.025            | NA                | 0.320               | NA                  | <0.025            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Lead                                     | <0.005            | NA                | 0.05                | NA                  | <0.005            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Mercury                                  | <0.0002           | NA                | <0.001              | NA                  | <0.0002           | NA                  | NA                        | NA                       | NA                        | NA                       |
| Nickel                                   | <0.050            | NA                | 0.17                | NA                  | <0.050            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Selenium                                 | <0.005            | NA                | <0.03               | NA                  | <0.005            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Silver                                   | <0.010            | NA                | <0.002              | NA                  | <0.010            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Thallium                                 | <0.005            | NA                | <0.02               | NA                  | <0.005            | NA                  | NA                        | NA                       | NA                        | NA                       |
| Zinc                                     | 0.060             | NA                | 0.60                | NA                  | 0.010             | NA                  | NA                        | NA                       | NA                        | NA                       |

- a) This data represents only those compounds which were detected. See Appendix C for the entire list of chemical constituents that was examined for each ground-water sample.
- b) This sample was also analyzed for base/neutral extractable organic compounds, acid extractable organic compounds, pesticides/PCBs, cyanide, and phenol. All results were reported below detection limits (Appendix C).
- c) Replicate analysis.
- d) None detected.
- e) Not analyzed.

TABLE E-4 Summary of Analytical Results for Soil Samples Collected at General Electric's Test Facility, Malta, New York (concentrations are in micrograms per gram (ppm) unless indicated otherwise).<sup>a)</sup>

| Parameter                                         | Boring 8 <sup>b)</sup><br>2/11/85 | Well 9 <sup>b)</sup><br>2/11/85 | Mean Background<br>Concentrations |
|---------------------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| <u>Volatile Organic Compounds<sup>c)</sup></u>    |                                   |                                 |                                   |
| Methylene chloride                                | 72                                | 140                             | -                                 |
| <u>Base/Neutral Extractable Organic Compounds</u> |                                   |                                 |                                   |
| bis(2-Ethylhexyl) phthalate                       | <1                                | <1                              | -                                 |
| <u>Acid Extractable Organic Compounds</u>         |                                   |                                 |                                   |
|                                                   | ND <sup>d)</sup>                  | ND                              | -                                 |
| <u>Pesticides/PCBs</u>                            |                                   |                                 |                                   |
|                                                   | ND                                | ND                              | -                                 |
| <u>Metals</u>                                     |                                   |                                 |                                   |
| Antimony                                          | <0.1                              | <0.1                            | 0.48                              |
| Arsenic                                           | 6.7                               | 8.3                             | 5.2                               |
| Beryllium                                         | 0.2                               | 0.3                             | 0.63                              |
| Cadmium                                           | 0.186                             | 0.287                           | NA <sup>e)</sup>                  |
| Chromium                                          | 6.8                               | 9.2                             | 37                                |
| Copper                                            | 14                                | 16                              | 17                                |
| Lead                                              | 4.1                               | 11                              | 16                                |
| Mercury                                           | 0.61                              | <0.1                            | 0.058                             |
| Nickel                                            | 8.7                               | 10                              | 13                                |
| Selenium                                          | <2                                | <2                              | 0.26                              |
| Silver                                            | <0.2                              | <0.2                            | NA                                |
| Thallium                                          | <2                                | <2                              | NA                                |
| Zinc                                              | 57                                | 70                              | 48                                |

a) This data represents only those compounds which were detected. See Appendix C for the entire list of chemical constituents that was examined for each soil sample.

b) Soil samples from locations at Boring 8 and Well 9 were composited from a depth of 0 to 4 feet below land surface.

c) Concentrations are in micrograms per kilogram or parts per billion.

d) None detected

e) Not analyzed

TABLE E-5 Concentrations of Priority Pollutant Volatile Organic Compounds (GC/MS)

Client: Geraghty & Miller, Inc.  
CAA Project No.: 85-11-018

Date Samples Received: November 5, 1985  
Date Analyses Completed: November 20, 1985

Concentration - ug/kg (ppb), wet weight<sup>a</sup>

| Compound                       | Sample ID:<br>CAA ID: | A<br>8511018-1 | B<br>8511018-2 | C<br>8511018-3 | D<br>8511018-4 |
|--------------------------------|-----------------------|----------------|----------------|----------------|----------------|
| (1) chloromethane              |                       |                |                |                |                |
| (2) bromomethane               |                       |                |                |                |                |
| (3) vinyl chloride             |                       |                |                |                |                |
| (4) chloroethane               |                       |                |                |                |                |
| (5) methylene chloride         |                       |                |                |                |                |
| (6) 1,1-dichloroethylene       |                       |                |                |                |                |
| (7) 1,1-dichloroethane         |                       |                |                |                |                |
| (8) trans-1,2-dichloroethylene |                       |                |                |                |                |
| (9) chloroform                 |                       |                |                |                |                |
| (10) 1,2-dichloroethane        |                       |                |                |                |                |
| (11) 1,1,1-trichloroethane     |                       |                |                |                |                |
| (12) carbon tetrachloride      |                       |                |                |                |                |
| (13) bromodichloromethane      |                       |                |                |                |                |
| (14) acrylonitrile             |                       |                |                |                |                |
| (15) acrolein                  |                       |                |                |                |                |
| (16) 1,2-dichloropropane       |                       |                |                |                |                |
| (17) trans-1,3-dichloropropene |                       |                |                |                |                |
| (18) trichloroethylene         |                       |                |                |                |                |
| (19) chlorodibromomethane      |                       |                |                |                |                |
| (20) 1,1,2-trichloroethane     |                       |                |                |                |                |
| (21) benzene                   |                       | TR(5)          |                |                |                |
| (22) cis-1,3-dichloropropene   |                       |                |                |                |                |
| (23) 2-chloroethylvinyl ether  |                       |                |                |                |                |
| (24) bromoform                 |                       |                |                |                |                |
| (25) 1,1,2,2-tetrachloroethane |                       |                |                |                |                |
| (26) tetrachloroethylene       |                       |                |                |                |                |
| (27) toluene                   |                       | TR(5)          |                |                |                |
| (28) chlorobenzene             |                       |                |                |                |                |
| (29) ethylbenzene              |                       |                |                |                |                |
| (30) total xylenes             |                       |                |                |                |                |
| Detection Limit                |                       | 5              | 5              | 5              | 5              |

<sup>a</sup> Concentrations less than the detection limit are left blank. Concentrations between 1 and 10 times the detection limit are listed as trace levels (TR). Detection limits for acrolein and acrylonitrile are 100 and 10 times the nominal detection limit, respectively.

10/21/85

TABLE E-5 (cont'd). Concentrations of Priority Pollutant Volatile Organic Compounds (GC/MS)

Client: Geraghty &amp; Miller, Inc.

Date Samples Received: November 5, 1985

CAA Project No.: 85-11-018

Date Analyses Completed: November 20, 1985

Concentration - ug/kg (ppb), wet weight<sup>a</sup>

| Compound | Sample ID: E | F         | G         |
|----------|--------------|-----------|-----------|
| CAA ID:  | 8511018-5    | 8511018-6 | 8511018-7 |

(1) chloromethane

(2) bromomethane

(3) vinyl chloride

(4) chloroethane

(5) methylene chloride

(6) 1,1-dichloroethylene

(7) 1,1-dichloroethane

(8) trans-1,2-dichloroethylene

(9) chloroform

(10) 1,2-dichloroethane

(11) 1,1,1-trichloroethane

(12) carbon tetrachloride

(13) bromodichloromethane

(14) acrylonitrile

(15) acrolein

(16) 1,2-dichloropropane

(17) trans-1,3-dichloropropene

(18) trichloroethylene

(19) chlorodibromomethane

(20) 1,1,2-trichloroethane

(21) benzene

(22) cis-1,3-dichloropropene

(23) 2-chloroethylvinyl ether

(24) bromoform

(25) 1,1,2,2-tetrachloroethane

(26) tetrachloroethylene

(27) toluene

(28) chlorobenzene

(29) ethylbenzene

(30) total xylenes

Detection Limit

5

5

5

<sup>a</sup> Concentrations less than the detection limit are left blank. Concentrations between 1 and 10 times the detection limit are listed as trace levels (TR). Detection limits for acrolein and acrylonitrile are 100 and 10 times the nominal detection limit, respectively.

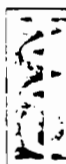


TABLE E-5 (cont'd). Concentrations of Priority Pollutant Volatile Organic Compounds (GC/MS)

Client: Geraghty & Miller, Inc.

CAA Project No.: 85-11-018

Date Samples Received: November 5, 1985

Date Analyses Completed: November 20, 1985

| Concentration - ug/kg (ppb), wet weight <sup>a</sup> |           |           |            |
|------------------------------------------------------|-----------|-----------|------------|
| Sample ID:                                           | H         | I         | J          |
| CAA ID:                                              | 8511018-8 | 8511018-9 | 8511018-10 |
| Compound                                             |           |           |            |
| (1) chloromethane                                    |           |           |            |
| (2) bromomethane                                     |           |           |            |
| (3) vinyl chloride                                   |           |           |            |
| (4) chloroethane                                     |           |           |            |
| (5) methylene chloride                               |           |           |            |
| (6) 1,1-dichloroethylene                             |           |           |            |
| (7) 1,1-dichloroethane                               |           |           |            |
| (8) trans-1,2-dichloroethylene                       |           |           |            |
| (9) chloroform                                       |           |           |            |
| (10) 1,2-dichloroethane                              |           |           |            |
| (11) 1,1,1-trichloroethane                           |           |           |            |
| (12) carbon tetrachloride                            |           |           |            |
| (13) bromodichloromethane                            |           |           |            |
| (14) acrylonitrile                                   |           |           |            |
| (15) acrolein                                        |           |           |            |
| (16) 1,2-dichloropropane                             |           |           |            |
| (17) trans-1,3-dichloropropene                       |           |           |            |
| (18) trichloroethylene                               |           |           |            |
| (19) chlorodibromomethane                            |           |           |            |
| (20) 1,1,2-trichloroethane                           |           |           |            |
| (21) benzene                                         |           |           |            |
| (22) cis-1,3-dichloropropene                         |           |           |            |
| (23) 2-chloroethylvinyl ether                        |           |           |            |
| (24) bromoform                                       |           |           |            |
| (25) 1,1,2,2-tetrachloroethane                       |           |           |            |
| (26) tetrachloroethylene                             |           |           |            |
| (27) toluene                                         |           |           |            |
| (28) chlorobenzene                                   |           |           |            |
| (29) ethylbenzene                                    |           |           |            |
| (30) total xylenes                                   |           |           |            |
| Detection Limit                                      | 5         | 5         | 5          |

<sup>a</sup>Concentrations less than the detection limit are left blank. Concentrations between 1 and 10 times the detection limit are listed as trace levels (TR). Detection limits for acrolein and acrylonitrile are 100 and 10 times the nominal detection limit, respectively.

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TABLE E-6 Concentrations of Acid/Base/Neutral Priority Pollutant Extractables (GC/MS)

Client: Geraghty & Miller, Inc.  
CAA Project No.: 85-11-018

Date Samples Received: November 5, 1985  
Date Analyses Completed: November 24, 1985

Concentration - ug/kg (ppb), dry weight<sup>a</sup>

| Compound | Sample ID:<br>CAA ID: | A<br>8511018-01 | B<br>8511018-02 | C<br>8511018-03 | D<br>8511018-04 |
|----------|-----------------------|-----------------|-----------------|-----------------|-----------------|
|----------|-----------------------|-----------------|-----------------|-----------------|-----------------|

#### ACID COMPOUNDS

- (1) phenol
- (2) 2-chlorophenol
- (3) 2-nitrophenol
- (4) 2,4-dimethylphenol
- (5) 2,4-dichlorophenol
- (6) p-chloro-m-cresol
- (7) 2,4,6-trichlorophenol
- (8) 2,4-dinitrophenol
- (9) 4-nitrophenol
- (10) 4,6-dinitro-2-methylphenol
- (11) pentachlorophenol

Detection Limit

52

55

54

50

#### BASE/NEUTRAL COMPOUNDS

- (1) N-nitrosodimethylamine
- (2) bis(2-chloroethyl)-ether
- (3) 1,3-dichlorobenzene
- (4) 1,4-dichlorobenzene
- (5) 1,2-dichlorobenzene
- (6) bis(2-chloroisopropyl)ether
- (7) N-nitrosodi-n-propylamine
- (8) hexachloroethane
- (9) nitrobenzene
- (10) isophorone
- (11) bis(2-chloroethoxy)methane
- (12) 1,2,4-trichlorobenzene
- (13) naphthalene
- (14) hexachlorobutadiene
- (15) hexachlorocyclopentadiene
- (16) 2-chloronaphthalene
- (17) dimethyl phthalate

100-1000

TABLE E-6 (cont'd). Concentration of Acid/Base/Neutral Priority Pollutant Extractables (GC/MS)

| Concentration - ug/kg (ppb), dry weight <sup>a</sup> |            |            |            |            |
|------------------------------------------------------|------------|------------|------------|------------|
| Sample ID:                                           | A          | B          | C          | D          |
| CAA ID:                                              | 8511018-01 | 8511018-02 | 8511018-03 | 8511018-04 |
| Compound                                             |            |            |            |            |
| BASE/NEUTRAL COMPOUNDS (cont'd.)                     |            |            |            |            |
| (18) acenaphthylene                                  |            |            |            |            |
| (19) acenaphthene                                    |            |            |            |            |
| (20) 2,4-dinitrotoluene                              |            |            |            |            |
| (21) 2,6-dinitrotoluene                              |            |            |            |            |
| (22) diethyl phthalate                               |            |            |            |            |
| (23) 4-chlorophenyl phenyl ether                     |            |            |            |            |
| (24) fluorene                                        |            |            |            |            |
| (25) N-nitrosodiphenylamine <sup>b</sup>             |            |            |            |            |
| (26) 1,2-diphenylhydrazine <sup>c</sup>              |            |            |            |            |
| (27) 4-bromophenyl phenyl ether                      |            |            |            |            |
| (28) hexachlorobenzene                               |            |            |            |            |
| (29) phenanthrene                                    |            |            |            |            |
| (30) anthracene                                      |            |            |            |            |
| (31) di-n-butyl phthalate                            |            |            |            |            |
| (32) fluoranthene                                    |            |            |            |            |
| (33) benzidine                                       |            |            |            |            |
| (34) pyrene                                          |            |            |            |            |
| (35) butyl benzyl phthalate                          |            |            |            |            |
| (36) 3,3'-dichlorobenzidine                          |            |            |            |            |
| (37) benzo(a)anthracene                              |            |            |            |            |
| (38) bis(2-ethylhexyl)phthalate                      | 2,700      | 1,500      |            | 580        |
| (39) chrysene                                        |            |            |            |            |
| (40) di-n-octyl phthalate                            |            |            |            |            |
| (41) benzo(b)fluoranthene                            |            |            |            |            |
| (42) benzo(k)fluoranthene                            |            |            |            |            |
| (43) benzo(a)pyrene                                  |            |            |            |            |
| (44) indeno(1,2,3-c,d)pyrene                         |            |            |            |            |
| (45) dibenzo(a,h)anthracene                          |            |            |            |            |
| (46) benzo(ghi)perylene                              |            |            |            |            |
| Detection Limit                                      | 52         | 55         | 54         | 50         |

<sup>a</sup> Concentrations less than the detection limit are left blank. Concentrations between 1 and 10 times the limit of detection are listed as trace levels (TR).

<sup>b</sup> Analyzed as diphenylamine.

<sup>c</sup> Analyzed as azobenzene.

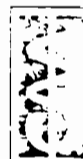


TABLE E-6 (cont'd). Concentrations of Acid/Base/Neutral Priority Pollutant Extractables (GC/MS)

Client: Geraghty & Miller, Inc.  
 CAA Project No.: 85-11-018

Date Samples Received: November 5, 1985  
 Date Analyses Completed: November 24, 1985

Concentration - ug/kg (ppb), dry weight<sup>a</sup>

| Compound | Sample ID:<br>CAA ID: 8511018-05 | F<br>8511018-06 | G<br>8511018-07 |
|----------|----------------------------------|-----------------|-----------------|
|----------|----------------------------------|-----------------|-----------------|

## ACID COMPOUNDS

- (1) phenol
- (2) 2-chlorophenol
- (3) 2-nitrophenol
- (4) 2,4-dimethylphenol
- (5) 2,4-dichlorophenol
- (6) p-chloro-m-cresol
- (7) 2,4,6-trichlorophenol
- (8) 2,4-dinitrophenol
- (9) 4-nitrophenol
- (10) 4,6-dinitro-2-methylphenol
- (11) pentachlorophenol

Detection Limit

54

50

53

## BASE/NEUTRAL COMPOUNDS

- (1) N-nitrosodimethylamine
- (2) bis(2-chloroethyl)-ether
- (3) 1,3-dichlorobenzene
- (4) 1,4-dichlorobenzene
- (5) 1,2-dichlorobenzene
- (6) bis(2-chloroisopropyl)ether
- (7) N-nitrosodl-n-propylamine
- (8) hexachloroethane
- (9) nitrobenzene
- (10) isophorone
- (11) bis(2-chloroethoxy)methane
- (12) 1,2,4-trichlorobenzene
- (13) naphthalene
- (14) hexachlorobutadiene
- (15) hexachlorocyclopentadiene
- (16) 2-chloronaphthalene
- (17) dimethyl phthalate



TABLE E-6 (cont'd). Concentration of Acid/Base/Neutral Priority Pollutant Extractables (GC/MS)

Concentration - ug/kg (ppb), dry weight<sup>a</sup>

| Compound | Sample ID:<br>CAA ID: | E<br>8511018-05 | F<br>8511018-06 | G<br>8511018-07 |
|----------|-----------------------|-----------------|-----------------|-----------------|
|----------|-----------------------|-----------------|-----------------|-----------------|

## BASE/NEUTRAL COMPOUNDS (cont'd.)

(18) acenaphthylene

(19) acenaphthene

(20) 2,4-dinitrotoluene

(21) 2,6-dinitrotoluene

(22) diethyl phthalate

(23) 4-chlorophenyl phenyl ether

(24) fluorene

(25) N-nitrosodiphenylamine<sup>b</sup>(26) 1,2-diphenylhydrazine<sup>c</sup>

(27) 4-bromophenyl phenyl ether

(28) hexachlorobenzene

(29) phenanthrene

(30) anthracene

(31) di-n-butyl phthalate

(32) fluoranthene

(33) benzidine

(34) pyrene

(35) butyl benzyl phthalate

(36) 3,3'-dichlorobenzidine

(37) benzo(a)anthracene

(38) bis(2-ethylhexyl)phthalate

TR(470)

700

(39) chrysene

(40) di-n-octyl phthalate

(41) benzo(b)fluoranthene

(42) benzo(k)fluoranthene

(43) benzo(a)pyrene

(44) indeno(1,2,3-c,d)pyrene

(45) dibenzo(a,h)anthracene

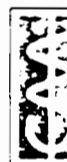
(46) benzo(ghi)perylene

Detection Limit

54

50

53

<sup>a</sup> Concentrations less than the detection limit are left blank. Concentrations between 1 and 10 times the limit of detection are listed as trace levels (TR).<sup>b</sup> Analyzed as diphenylamine.<sup>c</sup> Analyzed as azobenzene.

# F

# E

1

100

$\frac{1}{2}$

1

- (1) N-nitrosodimethylamine
- (2) bis(2-chloroethyl)-ether
- (3) 1,3-dichlorobenzene
- (4) 1,4-dichlorobenzene
- (5) 1,2-dichlorobenzene
- (6) bis(2-chloroisopropyl)ether
- (7) N-nitrosodi-n-propylamine
- (8) hexachloroethane
- (9) nitrobenzene
- (10) isophorone
- (11) bis(2-chloroethoxy)methane
- (12) 1,2,4-trichlorobenzene
- (13) naphthalene
- (14) hexachlorobutadiene
- (15) hexachlorocyclopentadiene
- (16) 2-chloronaphthalene
- (17) dimethyl phthalate

47

51

### BASE/NEUTRAL COMPOUNDS

- (1) N-nitrosodimethylamine
- (2) bis(2-chloroethyl)-ether
- (3) 1,3-dichlorobenzene
- (4) 1,4-dichlorobenzene
- (5) 1,2-dichlorobenzene
- (6) bis(2-chloroisopropyl)ether
- (7) N-nitrosodi-n-propylamine
- (8) hexachloroethane
- (9) nitrobenzene
- (10) isophorone
- (11) bis(2-chloroethoxy)methane
- (12) 1,2,4-trichlorobenzene
- (13) naphthalene
- (14) hexachlorobutadiene
- (15) hexachlorocyclopentadiene
- (16) 2-chloronaphthalene
- (17) dimethyl phthalate

111

TABLE E-6 (cont'd). Concentration of Acid/Base/Neutral Priority Pollutant Extractables (GC/MS)

Concentration - ug/kg (ppb), dry weight<sup>a</sup>

| Compound | Sample ID: H | I          | J          |
|----------|--------------|------------|------------|
| CAA ID:  | 8511018-08   | 8511018-09 | 8511018-10 |

## BASE/NEUTRAL COMPOUNDS (cont'd.)

(18) acenaphthylene

(19) acenaphthene

(20) 2,4-dinitrotoluene

(21) 2,6-dinitrotoluene

(22) diethyl phthalate

(23) 4-chlorophenyl phenyl ether

(24) fluorene

(25) N-nitrosodiphenylamine<sup>b</sup>(26) 1,2-diphenylhydrazine<sup>c</sup>

(27) 4-bromophenyl phenyl ether

(28) hexachlorobenzene

(29) phenanthrene

(30) anthracene

(31) di-n-butyl phthalate

(32) fluoranthene

(33) benzidine

(34) pyrene

(35) butyl benzyl phthalate

(36) 3,3'-dichlorobenzidine

(37) benzo(a)anthracene

(38) bis(2-ethylhexyl)phthalate

690

TR(250)

(39) chrysene

(40) di-n-octyl phthalate

(41) benzo(b)fluoranthene

(42) benzo(k)fluoranthene

(43) benzo(a)pyrene

(44) indeno(1,2,3-c,d)pyrene

(45) dibenzo(a,h)anthracene

(46) benzo(ghi)perylene

Detection Limit

47

53

51

<sup>a</sup> Concentrations less than the detection limit are left blank. Concentrations between 1 and 10 times the limit of detection are listed as trace levels (TR).

<sup>b</sup> Analyzed as diphenylamine.

<sup>c</sup> Analyzed as azobenzene.

TABLE E-7 Summary of Analytical Results for Air Samples  
Collected at General Electric's Test Facility,  
Malta, New York.

| Sample Location      | Date    | Constituents<br>Detected |
|----------------------|---------|--------------------------|
| Basement             | 2/20/85 | None <sup>a)</sup>       |
| Main Level           | 2/20/85 | None                     |
| Pipe Bay             | 2/20/85 | None                     |
| Outside Cell (Bay 6) | 2/20/85 | None                     |

a) Fuels that would have been detected, if present, are: gasoline, kerosene, diesel JP4 and JP5. Other distillates that would have been detected, if present, are: paint thinner, naphtha, mineral spirits and stoddard solvent.

GROUND WATER AND SOIL DATA  
1986 GERAGHTY & MILLER STUDY

TABLE E-8 Summary of Analytical Results for Soil and Ground-Water Samples, General Electric Company, Malta, New York.  
(concentrations are in ug/L, except where noted).<sup>a)</sup>

| Parameter                                                       | Soil Samples                |                           | Water Samples |      |      |      |      | Trip Blank | Field Blank |
|-----------------------------------------------------------------|-----------------------------|---------------------------|---------------|------|------|------|------|------------|-------------|
|                                                                 | S-1<br>(1.5-2')<br>(1.5-2') | S-4<br>(1.5-2')<br>(4-5') | B-1<br>(4-5') | MW-1 | MW-2 | MW-3 | MW-4 |            |             |
| <u>Volatile Organic Compounds</u> <sup>b)</sup>                 |                             |                           |               |      |      |      |      |            |             |
| Trichloroethylene                                               | ND <sup>c)</sup>            | ND                        | ND            | ND   | 6    | ND   | ND   | ND         | ND          |
| <u>Base Neutral Extractable Organic Compounds</u> <sup>d)</sup> |                             |                           |               |      |      |      |      |            |             |
| Benzyl alcohol                                                  | -                           | -                         | -             | 3    | ND   | ND   | ND   | -          | -           |
| bis (2-Ethylhexyl) phthalate                                    | -                           | -                         | -             | 77   | 270  | ND   | ND   | -          | -           |
| Butyl benzyl phthalate                                          | -                           | -                         | -             | 12   | 12   | ND   | ND   | -          | -           |
| Diethyl phthalate                                               | -                           | -                         | -             | 5    | ND   | ND   | ND   | -          | -           |
| <u>Acid Extractable Organic Compounds</u> <sup>d)</sup>         |                             |                           |               | ND   | ND   | ND   | ND   | -          | -           |
| <u>Pesticides/PCBs</u> <sup>e)</sup>                            |                             |                           |               |      |      |      |      |            |             |
| Aroclor 1254                                                    | -                           | -                         | -             | 2.5  | ND   | ND   | ND   | -          | -           |
| <u>Metals</u>                                                   |                             |                           |               |      |      |      |      |            |             |
| Zinc (mg/L) <sup>f)</sup>                                       | -                           | -                         | -             | 0.06 | 0.07 | ND   | ND   | -          | -           |

a) These data represent only those compounds that were detected. A complete list of the chemical compounds that have been analyzed for is provided in Appendix D.

b) Detection limit is 1 ug/L.

c) Not detected.

d) Detection limit is 2 ug/L.

e) Detection limit is 0.1 ug/L.

f) Detection limit is 0.02 mg/L.

TABLE E-9 Concentration of Volatile Organic Compounds in Soil Atmosphere,  
General Electric Company, Malta, New York (concentrations are in ppm)

| Distance from<br>Base Line<br>(feet) | Line Number |     |      |     |     |      |
|--------------------------------------|-------------|-----|------|-----|-----|------|
|                                      | 1           | 3   | 5    | 7   | 9   | 11   |
| 0                                    | 0           | 0   | 0    | 0   | 0   | 0    |
| 40                                   |             | 0.8 | 22.0 | 0.2 | 0   | 0    |
| 80                                   |             |     | 0    | 0.5 | 0.5 | 0    |
| 120                                  |             |     |      | 0.2 | 0   | 10.3 |
| 160                                  |             |     |      | 2.0 | 0.5 | 0    |
| 200                                  |             |     |      | 1.6 | 0.7 | 0.2  |
| 240                                  |             |     |      |     | 4.0 | 5.6  |
| 280                                  |             |     |      |     | 2.1 | 1.3  |
| 320                                  |             |     |      |     |     | 1.5  |

| Distance from<br>Base Line<br>(feet) | Line Number |     |      |     |     |     |
|--------------------------------------|-------------|-----|------|-----|-----|-----|
|                                      | 13          | 15  | 17   | 19  | 21  | 23  |
| 0                                    | 0           | 0.5 | 3.0  | 0   | 0   | 0   |
| 40                                   | 0           | 0   | 1.5  | 0   | 1.7 | 0   |
| 80                                   | 7.5         | 0.5 | 8.3  | 3.0 | 0   | 0   |
| 120                                  | 10.0        | 3.2 | 10.0 | 2.2 | 2.8 | 0   |
| 160                                  | 0.9         | 4.7 | 0    | 3.1 | 3.1 | 0   |
| 200                                  | 2.6         | 2.4 | 0    | 2.8 | 3.5 | 0   |
| 240                                  | 0           | 0   | 0    | 2.0 | 0   | 0   |
| 280                                  | 0           | 0   | 3.1  | 0   | 3.2 | 0   |
| 320                                  | 0           | 0   | 3.3  | 0   | 0   | 0   |
| 360                                  | 0           | 0   | 4.5  | 0   | 2.5 | 0   |
| 400                                  | 12.5        | 0   | 2.0  | 0   | 6.0 | 1.1 |

| Distance from<br>Base Line<br>(feet) | Line Number |     |      |      |     |     |
|--------------------------------------|-------------|-----|------|------|-----|-----|
|                                      | 25          | 27  | 29   | 31   | 33  | 35  |
| 0                                    | 0           | 0.4 | 0    | 0.8  | 0   | 0.3 |
| 40                                   | 0.4         | 9.9 | 5.7  | 14.4 | 3.2 | 4.3 |
| 80                                   | 0           | 6.7 | 12.5 | 2.4  | 3.2 | 2.0 |
| 120                                  | 0           | 0.9 | 6.6  | 1.9  | 8.7 | 3.5 |
| 160                                  | 0           | 0.3 | 1.2  | 7.1  | 4.0 | 5.7 |
| 200                                  | 0           | 0   | 1.4  | 8.0  |     |     |
| 240                                  | 0           | 0   |      |      |     |     |
| 280                                  | 1.2         |     |      |      |     |     |
| 320                                  | 0           |     |      |      |     |     |
| 360                                  | 3.6         |     |      |      |     |     |
| 400                                  | 0.1         |     |      |      |     |     |

TABLE E-9 (Cont'd.)

| Distance from<br>Base Line<br>(feet) | Line Number |      |      |     |      |
|--------------------------------------|-------------|------|------|-----|------|
|                                      | 37          | 39   | 41   | 43  | 45   |
| 0                                    | 0           | 0.1  | 0    | 0.6 | 1.4  |
| 40                                   | 0.2         | 20.5 | 10.1 | 0.5 | 21.4 |
| 80                                   | 0.6         | 1.4  | 8.3  |     |      |
| 120                                  | 0           |      |      |     |      |

Ambient Atmosphere Concentrations

| Location<br>(Between Line No.'s Below) | Ambient Concentration (ppm) |
|----------------------------------------|-----------------------------|
| line 7 - line 9                        | 0                           |
| line 11 - line 13                      | 0                           |
| line 17 - line 19                      | 0                           |
| line 23 - line 25                      | 0                           |
| line 27 - line 29                      | 0.0                         |
| line 31 - line 33                      | 0.4                         |
| line 35 - line 37                      | 0.0                         |
| line 39 - line 41                      | 0.1                         |
| line 41 - line 45                      | 0.6                         |



TABLE E-10 Results of Organic Vapor Analysis of Soil Samples Collected During the Well Installation Program, General Electric Company, Malta, New York.

| Sample Depth<br>(feet below<br>land surface) | TIP READINGS (ppm) |      |      |      |
|----------------------------------------------|--------------------|------|------|------|
|                                              | MW-1               | MW-2 | MW-3 | MW-4 |
| 0 - 2                                        | 0                  | 0    | 0    | 0    |
| 5 - 7                                        | 0.3                | 0.1  | 0.1  | 0.2  |
| 10 - 12                                      | 0.3                | 0.1  | 0.1  | 0.1  |
| 15 - 17                                      | 0.4                | 0.2  | 0.2  | 0.2  |
| 20 - 22                                      | 0                  | 0.2  | 0.1  | 0.1  |
| 25 - 27                                      | 0.1                | 0.2  | 0.2  | 0.2  |
| 30 - 32                                      | 0.5                | 0.2  | 0.1  | 0.2  |
| 35 - 37                                      | 0.4                | 0.1  | 0.3  | 0.1  |
| 40 - 42                                      | 0.2                | 0.2  | 0    | 0.1  |
| 45 - 47                                      | 0.1                | 0.1  |      |      |
| 50 - 52                                      | 0.1                |      |      |      |
| 55 - 57                                      | 0.1                |      |      |      |

TABLE E-11 Results of Organic Vapor Analysis of Soil Samples Collected from  
Soil Boring B-1, General Electric Company Malta, New York.

| Sample Depth<br>(feet below<br>land surface) | TIP<br>READINGS (ppm) |
|----------------------------------------------|-----------------------|
| 0 - 1                                        | 12.5                  |
| 1 - 2                                        | 1.0                   |
| 2 - 3                                        | 6.4                   |
| 3 - 4                                        | 0.7                   |
| 4 - 5                                        | 57.0                  |
| 5 - 6                                        | 8.5                   |
| 6 - 7                                        | 38.6                  |
| 7 - 8                                        | 0.8                   |
| 8 - 9                                        | 4.3                   |
| 9 - 10                                       | 12.8                  |
| 15 - 17                                      | 6.6                   |
| 20 - 22                                      | 1.1                   |

**SURFACE-WATER AND GROUND-WATER QUALITY DATA**

**1986 BLASLAND & BOUCK STUDY**

TABLE E-12 Summary of Ground Water Quality Sampling Results (1), August 25-28, 1986.

| Sample Identification: |                          | 1    | 2S   | 2D   | 3S   | 3D   | 4S   | 4D   | 10S  | 10D  | 10S(2) | 10D(2) |
|------------------------|--------------------------|------|------|------|------|------|------|------|------|------|--------|--------|
| Parameter              | (concentrations in ug/L) |      |      |      |      |      |      |      |      |      |        |        |
| Aluminum               | B&B                      | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA     | NA     |
|                        | DEC                      | NA   | 6700 | <500 | NA   | NA   | 3800 | <500 | NA   | NA   | NA     | NA     |
| Boron                  | B&B                      | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500   | <500   |
|                        | DEC                      | NA   | 170  | 150  | NA   | NA   | 290  | 100  | NA   | NA   | NA     | NA     |
| Carbon Tetrachloride   | B&B                      | 20   | 56   | 89   | 44   | 13   | --   | --   | --   | --   | --     | --     |
|                        | DEC                      | NA   | 67   | 84   | NA   | NA   | --   | --   | NA   | NA   | NA     | NA     |
| Trichloroethene        | B&B                      | 12   | 11   | 62   | 58   | 14   | --   | --   | --   | --   | --     | --     |
|                        | DEC                      | NA   | 13   | 62   | NA   | NA   | --   | --   | NA   | NA   | NA     | NA     |
| Chloroform             | B&B                      | --   | 6    | 8    | --   | --   | --   | --   | --   | --   | --     | --     |
|                        | DEC                      | NA   | 5    | 6    | NA   | NA   | 2    | --   | NA   | NA   | NA     | NA     |
| Acetone                | B&B                      | 16   | --   | --   | --   | --   | --   | --   | --   | --   | --     | --     |
|                        | DEC                      | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA     | NA     |
| Benzo(a)anthracene     | B&B                      | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA     | NA     |
|                        | DEC                      | --   | --   | --   | --   | --   | --   | --   | --   | --   | --     | --     |
| Di-n-octyl phthalate   | B&B                      | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA     | NA     |
|                        | DEC                      | --   | --   | --   | --   | --   | --   | --   | --   | --   | --     | --     |
| Diethylphthalate       | B&B                      | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA     | NA     |
|                        | DEC                      | --   | --   | --   | --   | --   | --   | --   | --   | --   | --     | --     |
| Tetrachloroethene      | B&B                      | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA     | NA     |
|                        | DEC                      | --   | --   | --   | --   | --   | --   | 1    | --   | --   | --     | --     |
| Benzene                | B&B                      | --   | --   | --   | --   | --   | --   | --   | --   | --   | --     | --     |
|                        | DEC                      | --   | --   | --   | --   | --   | --   | 1    | --   | --   | --     | --     |

(1) The top number or symbol represents Blasland &amp; Bouck P.C.'s results, the bottom represents NYDEC's results in ug/L.

(2) Duplicate sample.

NA Indicates that a compound was not analyzed for.

-- Indicates that the compound was analyzed for but not detected.

ug/L Micrograms per liter.

Source: Blasland &amp; Bouck Engineers, P.C., December 1986.

TABLE E-13 Summary of Water Quality Sampling Results, July 11, 1986.

| Parameter                               | Lower Ravine 2                    |         | Confluence of Ravines 2A/2B |         | Upper Ravine 2A |                |
|-----------------------------------------|-----------------------------------|---------|-----------------------------|---------|-----------------|----------------|
|                                         | Sample Identification: Well No. 2 |         | Stream Well                 |         | Stream Well     |                |
|                                         | Stream 1                          | Point 1 | Stream 2                    | Point 2 | Stream 3        | Drilling Water |
| <hr/>                                   |                                   |         |                             |         |                 |                |
| Metals (mg/L)                           |                                   |         |                             |         |                 |                |
| Aluminum                                | <0.02                             | 0.34    | 26.0                        | 0.80    | 5.0             | NA             |
| Boron                                   | 0.54                              | 0.61    | 0.57                        | 0.43    | 3.40            | NA             |
| <hr/>                                   |                                   |         |                             |         |                 |                |
| Volatile Organic Compounds (ug/L)       |                                   |         |                             |         |                 |                |
| Chloroform                              | 13 JB                             | 1 JB    | --                          | 1 JB    | 6 JB            | 140 B          |
| Carbon tetrachloride                    | 140                               | --      | --                          | --      | 56              | --             |
| Bromodichloromethane                    | --                                | --      | --                          | --      | --              | 15             |
| Trichloroethylene                       | 90                                | --      | --                          | --      | 32              | --             |
| <hr/>                                   |                                   |         |                             |         |                 |                |
| Tentatively Identified Compounds (ug/L) |                                   |         |                             |         |                 |                |
| Benzene, methyl                         | 8 B                               | --      | --                          | --      | --              | --             |
| Unknown hydrocarbon                     | 6 B                               | --      | --                          | --      | --              | --             |

mg/L Milligrams per Liter.

ug/L Micrograms per Liter.

B Also detected in QA/QC blank.

J Estimated concentration.

-- Not detected.

NA Not Analyzed.

Source: Blasland & Bouck Engineers, P.C., December, 1986.

**NYSDEC, 1986**  
**SELECTED MONITORING WELLS**

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64538 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT, MALTA  
DESCRIPTION: MONITORING WELL 11-D-D-06-01  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATIC  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/25 19:30 DATE PRINTED: 86/09/23

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | 26. MCG/L  |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | 83. MCG/L  |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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JACK RYAN  
NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
BUREAU OF TECH. SERVICES AND RESEARCH  
50 WOLF RD, ROOM 317  
ALBANY, NY 12233

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ALBANY FIELD UNIT

SUBMITTED BY: PERKINS

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64538 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/25 19:30 DATE PRINTED: 86/09/23

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1, 3, 5-TRIMETHYLBENZENE   | < 1. MCG/L |
| T85909 1, 2, 4-TRIMETHYLBENZENE   | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2, 3-BENZOFURAN            | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1, 2, 4-TRICHLOROBENZENE   | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1, 2, 3-TRICHLOROBENZENE   | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE REPORTED: 86/09/16 REPORT MAILED OUT

| PARAMETER                          | RESULT      |
|------------------------------------|-------------|
| T67109 PHENOL                      | < 10. MCG/L |
| T66409 2-CHLOROPHENOL              | < 10. MCG/L |
| T66809 2-NITROPHENOL               | < 10. MCG/L |
| T66609 2, 4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2, 4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL     | < 10. MCG/L |
| T67209 2, 4, 6-TRICHLOROPHENOL     | < 10. MCG/L |
| T49609 2, 4, 5-TRICHLOROPHENOL     | < 10. MCG/L |
| T66709 2, 4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL               | < 10. MCG/L |
| T68509 2-METHYL-4, 6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL           | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*



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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64538 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/25 19:30 DATE PRINTED: 86/09/23

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-8)

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | 34. MCG/L    |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |
| T65009 DI-N-OCTYL PHTHALATE             | 93. MCG/L    |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE             | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE                   | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE           | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE           | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE               | < 30. MCG/L  |
| T15709 HCH, ALPHA                       | < 0.1 MCG/L  |
| T15809 HCH, BETA                        | < 0.1 MCG/L  |
| T35609 HCH, GAMMA (LINDANE)             | < 0.1 MCG/L  |
| T16009 HCH, DELTA                       | < 0.1 MCG/L  |
| T08009 HEPTACHLOR                       | < 0.1 MCG/L  |
| T07709 ALDRIN                           | < 0.06 MCG/L |
| T08309 HEPTACHLOR EPOXIDE               | < 0.1 MCG/L  |
| T43309 ENDOSULFAN I                     | < 0.1 MCG/L  |
| T14809 DDE -PARA, PARA                  | < 0.1 MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 4

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64538 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/25 19:30 DATE PRINTED: 86/09/23

| PARAMETER                 | RESULT       |
|---------------------------|--------------|
| T08509 DIELDRIN           | < 0.06 MCG/L |
| T08409 ENDRIN             | < 0.06 MCG/L |
| T14909 DDD -PARA, PARA    | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II      | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE    | < 0.06 MCG/L |
| T67309 ENDOSULFAN SULFATE | INT          |
| T14709 DDT -PARA, PARA    | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | INT         |
| T35509 TOXAPHENE    | < 3.0 MCG/L |
| T08609 CHLORDANE    | < 0.3 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID 861007153 SAMPLE RECEIVED: 86/08/28/11 CHARGE: 2.24  
PROGRAM: 5600 DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4550  
POLITICAL SUBDIVISION: MALTA COUNTY SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT-MALTA  
DESCRIPTION: MONITORING WELL 11-D 0 D-06-01  
REPORTING LAB: 10 LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY  
TEST PATTERN: 10-94-1 NON SPECIFIC TEST PATTERN  
SAMPLE TYPE: 250 GROUND WATER  
TIME OF SAMPLING: 86/08/25 19:30 DATE PRINTED: 86/09/12

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

| PARAMETER         | RESULT     |
|-------------------|------------|
| ALUMINUM ALUMINUM | < 0.5 MG/L |
| DIBORON BORON     | 0.11 MG/L  |

\*\*\*\* END OF REPORT \*\*\*\*

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JACK RYAN

NYS DEPT. OF ENVIRONMENTAL CONSERVATION

BUREAU OF TECH. SERVICES AND RESEARCH

50 WOLF RD. ROOM 317

ALBANY, NY 12233

SUBMITTED BY: ED. PERKINS

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64539 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
 PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
 POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
 LATITUDE: LONGITUDE: Z DIRECTION:  
 LOCATION: MALTA WRIGHT, MALTA  
 DESCRIPTION: MONITORING WELL 11-S<sup>+</sup>D-06-02  
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
 TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATIC  
 SAMPLE TYPE: 250: GROUND WATER  
 TIME OF SAMPLING: 86/08/25 20:20 DATE PRINTED: 86/09/23  
 ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
 DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | 2. MCG/L   |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | 8. MCG/L   |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | 20. MCG/L  |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64539 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/25 20:20 DATE PRINTED: 86/09/23

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1, 3, 5-TRIMETHYLBENZENE   | < 1. MCG/L |
| T85909 1, 2, 4-TRIMETHYLBENZENE   | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2, 3-BENZOFURAN            | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1, 2, 4-TRICHLOROBENZENE   | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1, 2, 3-TRICHLOROBENZENE   | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE REPORTED: 86/09/16 REPORT MAILED OUT

| PARAMETER                          | RESULT      |
|------------------------------------|-------------|
| T67109 PHENOL                      | < 10. MCG/L |
| T66409 2-CHLOROPHENOL              | < 10. MCG/L |
| T66809 2-NITROPHENOL               | < 10. MCG/L |
| T66609 2, 4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2, 4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL     | < 10. MCG/L |
| T67209 2, 4, 6-TRICHLOROPHENOL     | < 10. MCG/L |
| T49609 2, 4, 5-TRICHLOROPHENOL     | < 10. MCG/L |
| T66709 2, 4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL               | < 10. MCG/L |
| T68509 2-METHYL-4, 6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL           | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64539 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/25 20:20 DATE PRINTED: 86/09/23

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-8)

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | 56. MCG/L    |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |
| T65009 DI-N-OCTYL PHTHALATE             | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE             | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE                   | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE           | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE           | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE               | < 30. MCG/L  |
| T15709 HCH, ALPHA                       | < 0.09 MCG/L |
| T15809 HCH, BETA                        | < 0.09 MCG/L |
| T35609 HCH, GAMMA (LINDANE)             | < 0.09 MCG/L |
| T16009 HCH, DELTA                       | < 0.09 MCG/L |
| T08009 HEPTACHLOR                       | < 0.1 MCG/L  |
| T07709 ALDRIN                           | < 0.05 MCG/L |
| T08309 HEPTACHLOR EPOXIDE               | < 0.1 MCG/L  |
| T43309 ENDOSULFAN I                     | < 0.1 MCG/L  |
| T14809 DDE -PARA, PARA                  | < 0.1 MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 4

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64539 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/25 20:20 DATE PRINTED: 86/09/20

| PARAMETER                 | RESULT       |
|---------------------------|--------------|
| T08509 DIELDRIN           | < 0.05 MCG/L |
| T08409 ENDRIN             | < 0.05 MCG/L |
| T14909 DDD -PARA, PARA    | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II      | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE    | < 0.05 MCG/L |
| T67309 ENDOSULFAN SULFATE | < 0.1 MCG/L  |
| T14709 DDT -PARA, PARA    | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | < 2.0 MCG/L |
| T35509 TOXAPHENE    | < 2.0 MCG/L |
| T08609 CHLORDANE    | < 0.2 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
HADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 861007154 SAMPLE RECEIVED: 86/08/28/11 CHARGE: 2.24  
PROGRAM: 5600 DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT-MALTA  
DESCRIPTION: MONITORING WELL 11-S D-06-02  
REPORTING LAB: 10 LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY  
TEST PATTERN: 10-999 NON SPECIFIC TEST PATTERN  
SAMPLE TYPE: 230 GROUND WATER  
TIME OF SAMPLING: 86/08/25 20:20 DATE PRINTED 86/08/13

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

| PARAMETER               | RESULT    |
|-------------------------|-----------|
| TOTAL ALUMINUM ALUMINUM | 1.1 MG/L  |
| BORON BORON             | 0.14 MG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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JACK RYAN  
NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
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50 WOLF RD, ROOM 317  
ALBANY, NY 12233



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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64540 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
 PROGRAM: 5600 DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
 POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
 LATITUDE: LONGITUDE: Z DIRECTION:  
 LOCATION: MALTA WRIGHT, MALTA  
 DESCRIPTION: MONITORING WELL 13-B D-06-03  
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
 TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATICS  
 SAMPLE TYPE: 250: GROUND WATER  
 TIME OF SAMPLING: 86/08/26 11: DATE PRINTED: 86/09/23

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
 DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORDIFLUOROMETHANE               | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | 1. MCG/L   |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | 10. MCG/L  |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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JACK RYAN

NYS DEPT. OF ENVIRONMENTAL CONSERVATION

BUREAU OF TECH. SERVICES AND RESEARCH

50 WOLF RD, ROOM 317

ALBANY, NY 12233

RECEIVED

OCT 23 1986

SUBMITTED BY: PERKINS

DIVISION OF ENVIRONMENTAL ENFORCEMENT  
 ALBANY FIELD OFFICE

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64540 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 11: DATE PRINTED: 86/09/23

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1, 3, 5-TRIMETHYLBENZENE   | < 1. MCG/L |
| T85909 1, 2, 4-TRIMETHYLBENZENE   | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2, 3-BENZOFURAN            | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1, 2, 4-TRICHLOROBENZENE   | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1, 2, 3-TRICHLOROBENZENE   | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE REPORTED: 86/09/18 REPORT MAILED OUT

| PARAMETER                          | RESULT      |
|------------------------------------|-------------|
| T67109 PHENOL                      | < 10. MCG/L |
| T66409 2-CHLOROPHENOL              | < 10. MCG/L |
| T66809 2-NITROPHENOL               | < 10. MCG/L |
| T66609 2, 4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2, 4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL     | < 10. MCG/L |
| T67209 2, 4, 6-TRICHLOROPHENOL     | < 10. MCG/L |
| T49609 2, 4, 5-TRICHLOROPHENOL     | < 10. MCG/L |
| T66709 2, 4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL               | < 10. MCG/L |
| T68509 2-METHYL-4, 6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL           | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64540 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 11: DATE PRINTED: 86/09/23

ANALYSIS: 625BN BASE/NEUTRALS - F. R. METHOD 625 (DES 310-8)

| PARAMETER                               | RESULT        |
|-----------------------------------------|---------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L   |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L   |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L   |
| T65709 NITROBENZENE                     | < 10. MCG/L   |
| T65509 ISOPHORONE                       | < 10. MCG/L   |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L   |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L   |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L   |
| T64909 2, 6-DINITROTOLUENE              | < 10. MCG/L   |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L   |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L   |
| T63009 ACENAPHTHENE                     | < 10. MCG/L   |
| T64809 2, 4-DINITROTOLUENE              | < 10. MCG/L   |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L   |
| T65209 FLUORENE                         | < 10. MCG/L   |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L   |
| T65109 1, 2-DIPHENYLHYDRAZINE           | < 10. MCG/L   |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L   |
| T48809 HEXACHLOROENZENE                 | < 10. MCG/L   |
| T66109 PHENANTHRENE                     | < 10. MCG/L   |
| T63209 ANTHRACENE                       | < 10. MCG/L   |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L   |
| T68009 FLUORANTHENE                     | < 10. MCG/L   |
| T66209 PYRENE                           | < 10. MCG/L   |
| T63809 BENZIDINE                        | < 200. MCG/L  |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L   |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L   |
| T64509 3, 3'-DICHLOROENZIDINE           | < 30. MCG/L   |
| T64209 CHRYSENE                         | < 30. MCG/L   |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L   |
| T65009 DI-N-OCTYL PHTHALATE             | < 30. MCG/L   |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L   |
| T63509 BENZO(K)FLUORANTHENE             | < 30. MCG/L   |
| T63609 BENZO(A)PYRENE                   | < 30. MCG/L   |
| T65409 INDENO(1, 2, 3-CD)PYRENE         | < 30. MCG/L   |
| T64309 DIBENZO(A, H)ANTHRACENE          | < 30. MCG/L   |
| T63709 BENZO(GHI)PERYLENE               | < 30. MCG/L   |
| T15709 HCH, ALPHA                       | < 0. 09 MCG/L |
| T15809 HCH, BETA                        | < 0. 09 MCG/L |
| T35609 HCH, GAMMA (LINDANE)             | < 0. 09 MCG/L |
| T16009 HCH, DELTA                       | < 0. 09 MCG/L |
| T08009 HEPTACHLOR                       | < 0. 1 MCG/L  |
| T07709 ALDRIN                           | < 0. 04 MCG/L |
| T08309 HEPTACHLOR EPOXIDE               | < 0. 1 MCG/L  |
| T43309 ENDOSULFAN I                     | < 0. 1 MCG/L  |
| T14809 DDE -PARA, PARA                  | < 0. 1 MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 4

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64540 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 11: DATE PRINTED: 86/09/23

| PARAMETER                 | RESULT       |
|---------------------------|--------------|
| T08509 DIELDRIN           | < 0.04 MCG/L |
| T08409 ENDRIN             | < 0.04 MCG/L |
| T14909 DDD -PARA, PARA    | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II      | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE    | < 0.04 MCG/L |
| T67309 ENDOSULFAN SULFATE | < 0.1 MCG/L  |
| T14709 DDT -PARA, PARA    | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | < 1.0 MCG/L |
| T35509 TOXAPHENE    | < 2.0 MCG/L |
| T08609 CHLORDANE    | < 0.2 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 861007155 SAMPLE RECEIVED: 86/08/28/11 CHARGE: 8.14  
PROGRAM: 5600 DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT-MALTA  
DESCRIPTION: MONITORING WELL 13-D D-06-03  
REPORTING LAB: 10 LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY  
TEST PATTERN: 10-999 NON SPECIFIC TEST PATTERN  
SAMPLE TYPE: 250 GROUND WATER  
TIME OF SAMPLING: 86/05/26 11:00 DATE PRINTED: 86/09/19

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

| PARAMETER           | RESULT     |
|---------------------|------------|
| 01ALUMINUM ALUMINUM | < 0.5 MG/L |
| 01BORON BORON       | 0.10 MG/L  |

\*\*\*\* END OF REPORT \*\*\*\*

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JACK RYAN

NYS DEPT. OF ENVIRONMENTAL CONSERVATION

BUREAU OF TECH. SERVICES AND RESEARCH

50 WOLF RD. ROOM 317

ALBANY, NY 12223

SUBMITTED BY: ED FERRIN

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64541 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
 PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
 POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
 LATITUDE: LONGITUDE: Z DIRECTION:  
 LOCATION: MALTA WRIGHT, MALTA  
 DESCRIPTION: MONITORING WELL 13-5 D-06-04  
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
 TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATIC  
 SAMPLE TYPE: 250: GROUND WATER  
 TIME OF SAMPLING: 86/08/26 11:55 DATE PRINTED: 86/09/23

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
 DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | 2. MCG/L   |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | 50. MCG/L  |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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JACK RYAN  
 NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
 BUREAU OF TECH. SERVICES AND RESEARCH  
 50 WOLF RD, ROOM 317  
 ALBANY, NY 12233

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OCT 25 1986 SUBMITTED BY: PERKINS

ENVIRONMENTAL  
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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64541 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 11:55 DATE PRINTED: 86/09/23

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1,3,5-TRIMETHYLBENZENE     | < 1. MCG/L |
| T85909 1,2,4-TRIMETHYLBENZENE     | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2,3-BENZOFURAN             | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1,2,4-TRICHLOROBENZENE     | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1,2,3-TRICHLOROBENZENE     | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE REPORTED: 86/09/16 REPORT MAILED OUT

| PARAMETER                         | RESULT      |
|-----------------------------------|-------------|
| T67109 PHENOL                     | < 10. MCG/L |
| T66409 2-CHLOROPHENOL             | < 10. MCG/L |
| T66809 2-NITROPHENOL              | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2,4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL    | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL      | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL      | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL              | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL          | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64541 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 11:55 DATE PRINTED: 86/09/23

ANALYSIS: 625BN BASE/NEUTRALS - F. R. METHOD 625 (DES 310-8)

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |
| T65009 DI-N-OCTYL PHTHALATE             | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE             | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE                   | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE           | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE           | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE               | < 30. MCG/L  |
| T15709 HCH, ALPHA                       | < 0.09 MCG/L |
| T15809 HCH, BETA                        | < 0.09 MCG/L |
| T35609 HCH, GAMMA (LINDANE)             | < 0.09 MCG/L |
| T16009 HCH, DELTA                       | < 0.09 MCG/L |
| T08009 HEPTACHLOR                       | < 0.1 MCG/L  |
| T07709 ALDRIN                           | < 0.05 MCG/L |
| T08309 HEPTACHLOR EPOXIDE               | < 0.1 MCG/L  |
| T43309 ENDOSULFAN I                     | < 0.1 MCG/L  |
| T14809 DDE -PARA, PARA                  | < 0.1 MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*



NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 4

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64541

SAMPLE RECEIVED: 86/08/28/

CHARGE: 29.50

POLITICAL SUBDIVISION: MALTA

COUNTY: SARATOGA

LOCATION: MALTA WRIGHT, MALTA

TIME OF SAMPLING: 86/08/26 11:55

DATE PRINTED: 86/09/23

| PARAMETER                 | RESULT       |
|---------------------------|--------------|
| T08509 DIELDRIN           | < 0.05 MCG/L |
| T08409 ENDRIN             | < 0.05 MCG/L |
| T14909 DDD -PARA, PARA    | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II      | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE    | < 0.05 MCG/L |
| T67309 ENDOSULFAN SULFATE | < 0.1 MCG/L  |
| T14709 DDT -PARA, PARA    | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | < 2.0 MCG/L |
| T35509 TOXAPHENE    | < 2.0 MCG/L |
| T08609 CHLORDANE    | < 0.2 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 861007156 SAMPLE RECEIVED: 86/08/28/11 CHARGE: 2.24  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4520  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT-MALTA  
DESCRIPTION: MONITORING WELL 13-S D-06-04  
REPORTING LAB: 10: LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY  
TEST PATTERN: 10-999 NON SPECIFIC TEST PATTERN  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/28 11:55 DATE PRINTED: 86/08/18

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

| PARAMETER         | RESULT    |
|-------------------|-----------|
| ALUMINUM ALUMINUM | 0.6 MG/L  |
| BORON BORON       | 0.18 MG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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JACK RYAN

NYS DEPT. OF ENVIRONMENTAL CONSERVATION

BUREAU OF TECH. SERVICES AND RESEARCH

50 WOLF RD, ROOM 317

ALBANY, NY 12233

SUBMITTED BY: ED PERKINS

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 64542 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT, MALTA  
DESCRIPTION: MONITORING WELL 4S-D-06-05  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATIC  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/26 15:55 DATE PRINTED: 86/09/23

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | 2. MCG/L   |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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JACK RYAN  
NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
BUREAU OF TECH. SERVICES AND RESEARCH  
50 WOLF RD, ROOM 317  
ALBANY, NY 12233

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NEW YORK STATE DEPARTMENT OF HEALTH  
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PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64542 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 15:55 DATE PRINTED: 86/09/23

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1, 3, 5-TRIMETHYLBENZENE   | < 1. MCG/L |
| T85909 1, 2, 4-TRIMETHYLBENZENE   | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2, 3-BENZOFURAN            | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1, 2, 4-TRICHLOROBENZENE   | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1, 2, 3-TRICHLOROBENZENE   | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-B)  
DATE REPORTED: 86/09/16 REPORT MAILED OUT

| PARAMETER                          | RESULT      |
|------------------------------------|-------------|
| T67109 PHENOL                      | < 10. MCG/L |
| T66409 2-CHLOROPHENOL              | < 10. MCG/L |
| T66809 2-NITROPHENOL               | < 10. MCG/L |
| T66609 2, 4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2, 4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL     | < 10. MCG/L |
| T67209 2, 4, 6-TRICHLOROPHENOL     | < 10. MCG/L |
| T49609 2, 4, 5-TRICHLOROPHENOL     | < 10. MCG/L |
| T66709 2, 4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL               | < 10. MCG/L |
| T68509 2-METHYL-4, 6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL           | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64542 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 15:55 DATE PRINTED: 86/09/23

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-B)

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROENZENE                 | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |
| T65009 DI-N-OCTYL PHTHALATE             | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE             | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE                   | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE           | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE           | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE               | < 30. MCG/L  |
| T15709 HCH, ALPHA                       | < 0.09 MCG/L |
| T15809 HCH, BETA                        | < 0.09 MCG/L |
| T35609 HCH, GAMMA (LINDANE)             | < 0.09 MCG/L |
| T16009 HCH, DELTA                       | < 0.09 MCG/L |
| T08009 HEPTACHLOR                       | < 0.1 MCG/L  |
| T07709 ALDRIN                           | < 0.04 MCG/L |
| T08309 HEPTACHLOR EPOXIDE               | < 0.1 MCG/L  |
| T43309 ENDOSULFAN I                     | < 0.1 MCG/L  |
| T14809 DDE -PARA, PARA                  | < 0.1 MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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PAGE 4

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64542 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 15:55 DATE PRINTED: 86/09/23

| PARAMETER                 | RESULT       |
|---------------------------|--------------|
| T08509 DIELDRIN           | < 0.04 MCG/L |
| T08409 ENDRIN             | < 0.04 MCG/L |
| T14909 DDD -PARA, PARA    | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II      | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE    | < 0.04 MCG/L |
| T67309 ENDOSULFAN SULFATE | < 0.1 MCG/L  |
| T14709 DDT -PARA, PARA    | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | < 2.0 MCG/L |
| T35509 TOXAPHENE    | < 2.0 MCG/L |
| T08609 CHLORDANE    | < 0.2 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID 861007157 SAMPLE RECEIVED: 86/08/28/11 CHARGE 2.24  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT-MALTA  
DESCRIPTION: MONITORING WELL 4S D-06-05  
REPORTING LAB: 10: LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY  
TEST PATTERN: 10-993: NON SPECIFIC TEST PATTERN  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/26 15:55 DATE PRINTED: 86/08/18

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

| PARAMETER               | RESULT    |
|-------------------------|-----------|
| TOTAL ALUMINUM ALUMINUM | 3.8 MG/L  |
| GIBBON BORON            | 0.29 MG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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JACK RYAN  
NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
BUREAU OF TECH. SERVICES AND RESEARCH SUBMITTED BY: ED PERKINS  
50 WOLF RD, ROOM 317  
ALBANY, NY 12230

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 64543 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT, MALTA  
DESCRIPTION: MONITORING WELL 40, D-06-06  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATIC  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/26 17:25 LAST ACTION DATE: 86/09/22

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

SAMPLE CONTAINS MATERIAL SIMILAR IN RESPONSE TO  
LUBRICATING OIL.

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |

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50 WOLF RD, ROOM 317

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PAGE 2

## RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 64543 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 17:25 LAST ACTION DATE: 86/09/22

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                  | RESULT     |
|----------------------------|------------|
| T41209 TETRACHLOROETHENE   | 1. MCG/L   |
| T40909 CHLOROBENZENE       | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE | < 1. MCG/L |

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | 1. MCG/L   |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1,3,5-TRIMETHYLBENZENE     | < 1. MCG/L |
| T85909 1,2,4-TRIMETHYLBENZENE     | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2,3-BENZOFURAN             | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1,2,4-TRICHLOROBENZENE     | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1,2,3-TRICHLOROBENZENE     | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE REPORTED: 86/09/16 REPORT MAILED OUT

| PARAMETER                 | RESULT      |
|---------------------------|-------------|
| T67109 PHENOL             | < 10. MCG/L |
| T66409 2-CHLOROPHENOL     | < 10. MCG/L |
| T66809 2-NITROPHENOL      | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 64543 SAMPLE RECEIVED: 86/08/28/ CHARGE: 29.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 17:25 LAST ACTION DATE: 86/09/22

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                         | RESULT      |
|-----------------------------------|-------------|
| T66509 2,4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL    | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL      | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL      | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL              | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL          | < 10. MCG/L |

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-8)  
DATE PRINTED: 86/09/23 FINISHED

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |
| T65009 DI-N-OCTYL PHTHALATE             | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 4

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 64543 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/26 17:25 LAST ACTION DATE: 86/09/22

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                     | RESULT       |
|-------------------------------|--------------|
| T63509 BENZO(K)FLUORANTHENE   | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE         | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE     | < 30. MCG/L  |
| T15709 HCH, ALPHA             | < 0.1 MCG/L  |
| T15809 HCH, BETA              | < 0.1 MCG/L  |
| T35609 HCH, GAMMA (LINDANE)   | < 0.1 MCG/L  |
| T16009 HCH, DELTA             | < 0.1 MCG/L  |
| T08009 HEPTACHLOR             | < 0.1 MCG/L  |
| T07709 ALDRIN                 | < 0.05 MCG/L |
| T08309 HEPTACHLOR EPOXIDE     | < 0.1 MCG/L  |
| T43309 ENDOSULFAN I           | < 0.1 MCG/L  |
| T14809 DDE -PARA, PARA        | < 0.1 MCG/L  |
| T08509 DIELDRIN               | < 0.05 MCG/L |
| T08409 ENDRIN                 | < 0.05 MCG/L |
| T14909 DDD -PARA, PARA        | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II          | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE        | < 0.05 MCG/L |
| T67309 ENDOSULFAN SULFATE     | < 0.1 MCG/L  |
| T14709 DDT -PARA, PARA        | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)  
DATE PRINTED: 86/09/23 FINISHED

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | < 2.0 MCG/L |
| T35509 TOXAPHENE    | < 2.0 MCG/L |
| T08609 CHLORDANE    | < 0.2 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64545 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT, MALTA  
DESCRIPTION: MONITORING WEL-280-06-08  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: PPEP: PRIORITY POLLUTANTS, PURGEABLE HALOCARBONS & AROMATIC  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/27 17:35 DATE PRINTED: 86/09/23  
ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | 5. MCG/L   |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | 67. MCG/L  |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | 13. MCG/L  |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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JACK RYAN  
NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
BUREAU OF TECH. SERVICES AND RESEARCH  
50 WOLF RD, ROOM 317  
ALBANY, NY 12233

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64545 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/27 17:35 DATE PRINTED: 86/09/23

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/09/05 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1,3,5-TRIMETHYLBENZENE     | < 1. MCG/L |
| T85909 1,2,4-TRIMETHYLBENZENE     | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2,3-BENZOFURAN             | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1,2,4-TRICHLOROBENZENE     | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1,2,3-TRICHLOROBENZENE     | < 5. MCG/L |

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE REPORTED: 86/09/16 REPORT MAILED OUT

| PARAMETER                         | RESULT      |
|-----------------------------------|-------------|
| T67109 PHENOL                     | < 10. MCG/L |
| T66409 2-CHLOROPHENOL             | < 10. MCG/L |
| T66809 2-NITROPHENOL              | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2,4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL    | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL      | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL      | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL              | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL          | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64545 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/27 17:35 DATE PRINTED: 86/09/23

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-B)

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65709 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |
| T65009 DI-N-OCTYL PHTHALATE             | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE             | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE             | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE                   | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE           | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE           | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE               | < 30. MCG/L  |
| T15709 HCH, ALPHA                       | < 0.09 MCG/L |
| T15809 HCH, BETA                        | < 0.09 MCG/L |
| T35609 HCH, GAMMA (LINDANE)             | < 0.09 MCG/L |
| T16009 HCH, DELTA                       | < 0.09 MCG/L |
| T08009 HEPTACHLOR                       | < 0.1 MCG/L  |
| T07709 ALDRIN                           | < 0.04 MCG/L |
| T08309 HEPTACHLOR EPOXIDE               | < 0.1 MCG/L  |
| T43309 ENDOSULFAN I                     | < 0.1 MCG/L  |
| T14809 DDE -PARA, PARA                  | < 0.1 MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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PAGE 4

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64545 SAMPLE RECEIVED: 86/08/28/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA WRIGHT, MALTA  
TIME OF SAMPLING: 86/08/27 17:35 DATE PRINTED: 86/09/23

| PARAMETER                 | RESULT       |
|---------------------------|--------------|
| T08509 DIELDRIN           | < 0.04 MCG/L |
| T08409 ENDRIN             | < 0.04 MCG/L |
| T14909 DDD -PARA, PARA    | < 0.1 MCG/L  |
| T43409 ENDOSULFAN II      | < 0.1 MCG/L  |
| T67409 ENDRIN ALDEHYDE    | < 0.04 MCG/L |
| T67309 ENDOSULFAN SULFATE | < 0.1 MCG/L  |
| T14709 DDT -PARA, PARA    | < 0.1 MCG/L  |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)

| PARAMETER           | RESULT      |
|---------------------|-------------|
| T08209 METHOXYCHLOR | < 2.0 MCG/L |
| T35509 TOXAPHENE    | < 2.0 MCG/L |
| T08609 CHLORDANE    | < 0.2 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

SAMPLE ID: 861007160 SAMPLE RECEIVED: 86/08/28/11 CHARGE: 2.24  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA WRIGHT-MALTA  
DESCRIPTION: MONITORING WELL 26 D-06-08  
REPORTING LAB: 10: LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY  
TEST PATTERN: 10-999: NON SPECIFIC TEST PATTERN  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 86/08/27 17:35 DATE PRINTED: 86/09/29

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

| PARAMETER           | RESULT    |
|---------------------|-----------|
| 01ALUMINUM ALUMINUM | 6.7 MG/L  |
| 01BORON BORON       | 0.17 MG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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JACK RYAN

NYS DEPT. OF ENVIRONMENTAL CONSERVATION

BUREAU OF TECH. SERVICES AND RESEARCH

50 WOLF RD, ROOM 317

ALBANY, NY 12233

SUBMITTED BY: ED PERKINS



NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64546 SAMPLE RECEIVED: 86/08/28/ CHARGE: 14.00  
 PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
 POLITICAL SUBDIVISION MALTA COUNTY: SARATOGA  
 LATITUDE: LONGITUDE: Z DIRECTION:  
 LOCATION: MALTA, WRIGHT-MALTA  
 DESCRIPTION: RINSE WATER FOR SAMPLING EQUIP D-06-09  
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
 TEST PATTERN: VOL2: PURGEABLE HALOCARBONS AND AROMATIC PURGEABLES  
 SAMPLE TYPE: 280: DISTILLED WATER  
 TIME OF SAMPLING: 86/08/27 15:45 DATE PRINTED: 86/09/10

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
 DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFUOROMETHANE                | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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JACK RYAN  
 NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
 BUREAU OF TECH SERVICES AND RESEARCH  
 50 WOLF RD, ROOM 317  
 ALBANY, NY 12233

SUBMITTED BY: PERKINS

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64546 SAMPLE RECEIVED: 86/08/28/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA, WRIGHT-MALTA  
TIME OF SAMPLING: 86/08/27 15:45 DATE PRINTED: 86/09/10

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | 1. MCG/L   |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1, 3, 5-TRIMETHYLBENZENE   | < 1. MCG/L |
| T85909 1, 2, 4-TRIMETHYLBENZENE   | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2, 3-BENZOFURAN            | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1, 2, 4-TRICHLOROBENZENE   | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1, 2, 3-TRICHLOROBENZENE   | < 5. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64547 SAMPLE RECEIVED: 86/08/28/ CHARGE: 14.00  
PROGRAM: 5600: DIVISION OF ENVIRONMENTAL ENFORCEMENT - DEC  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA - COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: MALTA, WRIGHT-MALTA FIELD BLANK DATE PREPARED 8-18-86  
DESCRIPTION: TRIP BLANK SAMPLES 64538 TO 64546  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: VOL2: PURGEABLE HALOCARBONS AND AROMATIC PURGEABLES  
SAMPLE TYPE: 297: FIELD BLANK  
TIME OF SAMPLING: 86/08/25 DATE PRINTED: 86/09/10

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/09/08 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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JACK RYAN  
NYS DEPT. OF ENVIRONMENTAL CONSERVATION  
BUREAU OF TECH. SERVICES AND RESEARCH  
50 WOLF RD, ROOM 317  
ALBANY, NY 12233

SUBMITTED BY: PERKINS

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64547 SAMPLE RECEIVED: 86/08/28/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: MALTA, WRIGHT-MALTA FIELD BLANK DATE PREPARED 8-18-86  
TIME OF SAMPLING: 86/08/25 DATE PRINTED: 86/09/10

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1, 3, 5-TRIMETHYLBENZENE   | < 1. MCG/L |
| T85909 1, 2, 4-TRIMETHYLBENZENE   | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2, 3-BENZOFURAN            | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1, 2, 4-TRICHLOROBENZENE   | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1, 2, 3-TRICHLOROBENZENE   | < 5. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

**NYSDEC AND NYSDOH, 1985/86  
RAVINES AND LUTHER FOREST WELLS**

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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## RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62605 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
PROGRAM: 108: HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE 546022  
DESCRIPTION: UPPER SOUTH CENTRAL RAVINE  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: VOL2: PURGEABLE HALOCARBONS AND AROMATIC PURGEABLES  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/06/05 16:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/06/12 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | 4. MCG/L   |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | 36. MCG/L  |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | 27. MCG/L  |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |

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VANCE BRYANT  
DIV. OF ENVIRONMENTAL ENFORCEMENT  
NY STATE DEP'T. OF ENVIRON. CONSERV.  
50 WOLF RD.  
ALBANY, NY 12233

SUBMITTED BY: TRAMONTANO

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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## RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62605 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: ROCKET FUEL SITE 546022  
TIME OF SAMPLING: 86/06/05 16:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                  | RESULT     |
|----------------------------|------------|
| T44109 1,2-DICHLOROBENZENE | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE | < 1. MCG/L |

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/06/12 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1,3,5-TRIMETHYLBENZENE     | < 1. MCG/L |
| T85909 1,2,4-TRIMETHYLBENZENE     | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2,3-BENZOFURAN             | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE-(C-46) | < 5. MCG/L |
| T44009 1,2,4-TRICHLOROBENZENE     | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1,2,3-TRICHLOROBENZENE     | < 5. MCG/L |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)  
DATA INCOMPLETE INTERIM REPORT

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE PRINTED: 86/06/13 FINISHED

| PARAMETER             | RESULT      |
|-----------------------|-------------|
| T67109 PHENOL         | < 10. MCG/L |
| T66409 2-CHLOROPHENOL | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62605 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: ROCKET FUEL SITE 546022  
TIME OF SAMPLING: 86/06/05 16:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                         | RESULT      |
|-----------------------------------|-------------|
| T66809 2-NITROPHENOL              | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2,4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL    | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL      | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL      | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL              | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL          | < 10. MCG/L |

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-B)  
DATE PRINTED: 86/06/13

FINISHED

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL-PHENYL-ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*



NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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## RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62605

SAMPLE RECEIVED: 86/06/06/

CHARGE: 14.00

POLITICAL SUBDIVISION: MALTA

COUNTY: SARATOGA

LOCATION: ROCKET FUEL SITE 546022

TIME OF SAMPLING: 86/06/05 16:30

LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                     | RESULT      |
|-------------------------------|-------------|
| T65009 DI-N-OCTYL PHTHALATE   | < 30. MCG/L |
| T63409 BENZO(B)FLUORANTHENE   | < 30. MCG/L |
| T63509 BENZO(K)FLUORANTHENE   | < 30. MCG/L |
| T63609 BENZO(A)PYRENE         | < 30. MCG/L |
| T65409 INDENO(1,2,3-CD)PYRENE | < 30. MCG/L |
| T64309 DIBENZO(A,H)ANTHRACENE | < 30. MCG/L |
| T63709 BENZO(GHI)PERYLENE     | < 30. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62606 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
ROGRAM: 108:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE 546022  
DESCRIPTION: SOUTH BRANCH SOUTH RAVINE  
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: VOL2:PURGEABLE HALOCARBONS AND AROMATIC PURGEABLES  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/06/05 17:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)  
DATE REPORTED: 86/06/12 REPORT MAILED OUT

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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VANCE BRYANT  
DIV. OF ENVIRONMENTAL ENFORCEMENT  
NY STATE DEP'T. OF ENVIRON. CONSERV.  
50 WOLF RD.  
ALBANY, NY 12233

SUBMITTED BY: TRAMONTANO

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62606 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: ROCKET FUEL SITE 546022  
TIME OF SAMPLING: 86/06/05 17:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                  | RESULT     |
|----------------------------|------------|
| T44109 1,2-DICHLOROBENZENE | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE | < 1. MCG/L |

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)  
DATE REPORTED: 86/06/12 REPORT MAILED OUT

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1,3,5-TRIMETHYLBENZENE     | < 1. MCG/L |
| T85909 1,2,4-TRIMETHYLBENZENE     | < 1. MCG/L |
| T86009 P-CYMENE                   | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2,3-BENZOFURAN             | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE-(C-46) | < 5. MCG/L |
| T44009 1,2,4-TRICHLOROBENZENE     | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1,2,3-TRICHLOROBENZENE     | < 5. MCG/L |

## FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

ANALYSIS: XPEST ORGANOCHLORINE PESTICIDES (DES 310-2)  
DATA INCOMPLETE INTERIM REPORT

ANALYSIS: 625A ACIDS - F.R. METHOD 625 (DES 310-8)  
DATE PRINTED: 86/06/13 FINISHED

| PARAMETER             | RESULT      |
|-----------------------|-------------|
| T67109 PHENOL         | < 10. MCG/L |
| T66409 2-CHLOROPHENOL | < 10. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62606 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: ROCKET FUEL SITE 546022  
TIME OF SAMPLING: 86/06/05 17:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                         | RESULT      |
|-----------------------------------|-------------|
| T66809 2-NITROPHENOL              | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL         | < 10. MCG/L |
| T66509 2,4-DICHLOROPHENOL         | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL    | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL      | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL      | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL          | < 10. MCG/L |
| T66909 4-NITROPHENOL              | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL          | < 10. MCG/L |

ANALYSIS: 625BN BASE/NEUTRALS - F.R. METHOD 625 (DES 310-8)  
DATE PRINTED: 86/06/13

FINISHED

| PARAMETER                               | RESULT       |
|-----------------------------------------|--------------|
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L  |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L  |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L  |
| T65709 NITROBENZENE                     | < 10. MCG/L  |
| T65509 ISOPHORONE                       | < 10. MCG/L  |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L  |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L  |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L  |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L  |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L  |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L  |
| T63009 ACENAPHTHENE                     | < 10. MCG/L  |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L  |
| T64609 DIETHYLPHTHALATE                 | < 10. MCG/L  |
| T65209 FLUORENE                         | < 10. MCG/L  |
| T66009 N-NITROSODIPHENYLAMINE           | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE            | < 10. MCG/L  |
| T68309 4-BROMOPHENYL-PHENYL-ETHER       | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE                | < 10. MCG/L  |
| T66109 PHENANTHRENE                     | < 10. MCG/L  |
| T63209 ANTHRACENE                       | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE              | < 10. MCG/L  |
| T68009 FLUORANTHENE                     | < 10. MCG/L  |
| T66209 PYRENE                           | < 10. MCG/L  |
| T63809 BENZIDINE                        | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE           | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE               | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE           | < 30. MCG/L  |
| T64209 CHRYSENE                         | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE       | < 30. MCG/L  |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 4

RESULTS OF EXAMINATION

INTERIM REPORT

SAMPLE ID: 62606 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: ROCKET FUEL SITE 546022  
TIME OF SAMPLING: 86/06/05 17:30 LAST ACTION DATE: 86/06/12

\*\*\* THIS IS A PARTIAL REPORT, AND DATA IS \*\*\*  
\*\*\* SUBJECT TO FINAL REVIEW AND REVISION. \*\*\*

| PARAMETER                     | RESULT      |
|-------------------------------|-------------|
| T65009 DI-N-OCTYL PHTHALATE   | < 30. MCG/L |
| T63409 BENZO(B)FLUORANTHENE   | < 30. MCG/L |
| T63509 BENZO(K)FLUORANTHENE   | < 30. MCG/L |
| T63609 BENZO(A)PYRENE         | < 30. MCG/L |
| T65409 INDENO(1,2,3-CD)PYRENE | < 30. MCG/L |
| T64309 DIBENZO(A,H)ANTHRACENE | < 30. MCG/L |
| T63709 BENZO(GHI)PERYLENE     | < 30. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62607 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
PROGRAM: 108:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE 546022  
DESCRIPTION: NORTH RAVINE  
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: VOL2:PURGEABLE HALOCARBONS AND AROMATIC PURGEABLES  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/06/05 15:30 DATE PRINTED: 86/06/12

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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VANCE-BRYANT  
DIV. OF ENVIRONMENTAL ENFORCEMENT  
NY STATE DEP'T. OF ENVIRON. CONSERV.  
50 WOLF RD.  
ALBANY, NY 12233

SUBMITTED BY: TRAMONTANO

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PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62607 SAMPLE RECEIVED: 86/06/06/ CHARGE: 14.00  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: ROCKET FUEL SITE 546022  
TIME OF SAMPLING: 86/06/05 15:30 DATE PRINTED: 86/06/12

ANALYSIS: 5031P AROMATIC PURGEABLES-EPA METHOD 503.1 (DES 310-22)

| PARAMETER                         | RESULT     |
|-----------------------------------|------------|
| T34409 BENZENE                    | < 1. MCG/L |
| T39209 TOLUENE                    | < 1. MCG/L |
| T51009 ETHYLBENZENE               | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1      | < 1. MCG/L |
| T70409 PARA-XYLENE                | < 1. MCG/L |
| T70309 META-XYLENE                | < 1. MCG/L |
| T51409 ORTHO-XYLENE               | < 1. MCG/L |
| T85309 CUMENE                     | < 1. MCG/L |
| T85409 STYRENE                    | < 1. MCG/L |
| T85509 P-BROMOFLUOROBENZENE       | < 1. MCG/L |
| T51109 N-PROPYLBENZENE            | < 1. MCG/L |
| T85609 TERT-BUTYLBENZENE          | < 1. MCG/L |
| T85709 O/P-CHLOROTOLUENE          | < 1. MCG/L |
| T51209 BROMOBENZENE               | < 1. MCG/L |
| T50509 META-CHLOROTOLUENE         | < 1. MCG/L |
| T85809 1,3,5-TRIMETHYLBENZENE     | < 1. MCG/L |
| T85909 1,2,4-TRIMETHYLBENZENE     | < 1. MCG/L |
| T86009 P-CYME                     | < 1. MCG/L |
| T86109 CYCLOPROPYLBENZENE         | < 1. MCG/L |
| T86209 SEC-BUTYLBENZENE           | < 1. MCG/L |
| T86309 N-BUTYLBENZENE             | < 1. MCG/L |
| T86409 2,3-BENZOFURAN             | < 1. MCG/L |
| T52509 HEXACHLOROBUTADIENE (C-46) | < 5. MCG/L |
| T44009 1,2,4-TRICHLOROBENZENE     | < 5. MCG/L |
| T65609 NAPHTHALENE                | < 5. MCG/L |
| T43909 1,2,3-TRICHLOROBENZENE     | < 5. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62608 SAMPLE RECEIVED: 86/06/06/ CHARGE: 7.00  
PROGRAM: 108: HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: FIELD BLANK-ROCKET FUEL SITE  
DESCRIPTION: WITH SAMPLE #62605 TO 62607  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 297: FIELD BLANK  
TIME OF SAMPLING: 86/06/04 DATE PRINTED: 86/06/16

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL-CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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50 WOLF RD.  
ALBANY, NY 12233

SUBMITTED BY: TRAMONTANO



WADSWORTH CENTER FOR LABORATORY AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63607 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
 PROGRAM: 109:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
 POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
 LATITUDE: LONGITUDE: Z DIRECTION: -  
 LOCATION: ROCKET FUEL SITE  
 DESCRIPTION: SAMPLING SITE #1  
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
 TEST PATTERN: 601: PURGEABLE HALOCARBONS  
 SAMPLE TYPE: 210: SURFACE WATER  
 TIME OF SAMPLING: 86/07/17 10:00 DATE PRINTED: 86/07/30

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T30909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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 N.Y.S. DEPARTMENT OF HEALTH - BLDG 7A  
 STATE OFFICE CAMPUS  
 ALBANY, N.Y.

SUBMITTED BY: LITWIN

NEW YORK STATE DEPARTMENT OF HEALTH  
MADSWORTH CENTER FOR LABORATORIAL AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63608 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
PROGRAM: 108 HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #2  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/17 11:00 DATE PRINTED: 86/07/30

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23609 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63609 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
PROGRAM: 108: HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #3  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/17 12:00 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63610 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
PROGRAM: 108:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #4  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/17 13:00 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23609 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63611 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
PROGRAM: 108:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #5  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/17 14:00 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63612 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
PROGRAM: 108: HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #6  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/17 15:30 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63697 SAMPLE RECEIVED: 86/07/22/ CHARGE: 7.00  
PROGRAM: 108: HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #7  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/21 09:00 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63698 SAMPLE RECEIVED: 86/07/22/ CHARGE: 7.00  
PROGRAM: 108:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: ROCKET FUEL SITE  
DESCRIPTION: SAMPLING SITE #8  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 210: SURFACE WATER  
TIME OF SAMPLING: 86/07/21 11:00 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 63613 SAMPLE RECEIVED: 86/07/18/ CHARGE: 7.00  
PROGRAM: 108:HAZARDOUS WASTE SITE-PRELIMINARY INVESTIGATION  
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: FIELD BLANK  
DESCRIPTION: WITH SAMPLE #63607 TO 63612  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: 601: PURGEABLE HALOCARBONS  
SAMPLE TYPE: 297: FIELD BLANK  
TIME OF SAMPLING: 86/06/15 DATE PRINTED: 86/07/29

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

| PARAMETER                                   | RESULT     |
|---------------------------------------------|------------|
| T62009 CHLOROMETHANE                        | < 1. MCG/L |
| T61809 BROMOMETHANE                         | < 1. MCG/L |
| T41009 VINYL CHLORIDE                       | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE              | < 1. MCG/L |
| T61909 CHLOROETHANE                         | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE               | < 1. MCG/L |
| T23809 METHYLENE CHLORIDE (DICHLOROMETHANE) | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE                   | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE                   | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE             | < 1. MCG/L |
| T39009 CHLOROFORM                           | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE                   | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE                | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE                 | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE                 | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE                  | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE            | < 1. MCG/L |
| T41109 TRICHLOROETHENE                      | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE                 | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE              | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE                | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER            | < 1. MCG/L |
| T42109 BROMOFORM                            | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE            | < 1. MCG/L |
| T41209 TETRACHLOROETHENE                    | < 1. MCG/L |
| T40909 CHLOROBENZENE                        | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE                  | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE                  | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE                  | < 1. MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

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REGIONAL DIRECTOR OF PH ENGINEERING  
N.Y.S. DEPARTMENT OF HEALTH - BLDG 7A  
STATE OFFICE CAMPUS  
ALBANY, N.Y.

SUBMITTED BY: LITWIN

0482

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51088 SAMPLE RECEIVED: 85/04/19/ CHARGE: 28.50  
PROGRAM: 100: MUNICIPAL WATER SUPPLIES  
SOURCE ID: DRAINAGE BASIN: 11 GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: LUTHER FOREST  
DESCRIPTION: TAP AT WELL 1 RAW WATER  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: PPEP: F.R. METHODS 625, 601 AND EPA METH 503.1  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 85/04/18 13:10 DATE PRINTED: 85/05/31

| PARAMETER                        | RESULT     |
|----------------------------------|------------|
| T62009 CHLOROMETHANE             | < 1. MCG/L |
| T61809 BROMOMETHANE              | < 1. MCG/L |
| T41009 VINYL CHLORIDE            | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE   | < 1. MCG/L |
| T61909 CHLOROETHANE              | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE    | < 1. MCG/L |
| T23809 DICHLOROMETHANE           | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE        | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE        | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE  | < 1. MCG/L |
| T39009 CHLOROFORM                | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE        | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE     | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE      | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE      | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE       | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE | < 1. MCG/L |
| T41109 TRICHLOROETHYLENE         | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE      | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE   | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE     | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER | < 1. MCG/L |
| T42109 BROMOFORM                 | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE | < 1. MCG/L |
| T41209 TETRACHLOROETHENE         | < 1. MCG/L |
| T40909 CHLOROBENZENE             | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE       | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE       | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE       | < 1. MCG/L |
| T34409 BENZENE                   | < 1. MCG/L |
| T39209 TOLUENE                   | < 1. MCG/L |
| T51009 ETHYLBENZENE              | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1     | < 1. MCG/L |

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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STATE OFFICE CAMPUS  
ALBANY, N.Y.

SUBMITTED BY: LITWIN

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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51088  
POLITICAL SUBDIVISION: MALTA  
LOCATION: LUTHER FOREST  
TIME OF SAMPLING: 85/04/18 13:10

SAMPLE RECEIVED: 85/04/19/

CHARGE: 28.50  
COUNTY: SARATOGA

DATE PRINTED: 85/05/31

| PARAMETER                               | RESULT      |
|-----------------------------------------|-------------|
| T70409 PARA-XYLENE                      | < 1. MCG/L  |
| T70309 META-XYLENE                      | < 1. MCG/L  |
| T51409 ORTHO-XYLENE                     | < 1. MCG/L  |
| T85309 CUMENE                           | < 1. MCG/L  |
| T85409 STYRENE                          | < 1. MCG/L  |
| T85509 P-BROMOFLUOROBENZENE             | < 1. MCG/L  |
| T51109 N-PROPYLBENZENE                  | < 1. MCG/L  |
| T85609 TERT-BUTYLBENZENE                | < 1. MCG/L  |
| T85709 O/P-CHLOROTOLUENE                | < 1. MCG/L  |
| T51209 BROMOBENZENE                     | < 1. MCG/L  |
| T50509 META-CHLOROTOLUENE               | < 1. MCG/L  |
| T85809 1,3,5-TRIMETHYLBENZENE           | < 1. MCG/L  |
| T85909 1,2,4-TRIMETHYLBENZENE           | < 1. MCG/L  |
| T86009 P-CYME                           | < 1. MCG/L  |
| T86109 CYCLOPROPYLBENZENE               | < 1. MCG/L  |
| T86209 SEC-BUTYLBENZENE                 | < 1. MCG/L  |
| T86309 N-BUTYLBENZENE                   | < 1. MCG/L  |
| T86409 2,3-BENZOFURAN                   | < 1. MCG/L  |
| T52509 HEXACHLOROBUTADIENE (C-46)       | < 5. MCG/L  |
| T44009 1,2,4-TRICHLOROBENZENE           | < 5. MCG/L  |
| T65609 NAPHTHALENE                      | < 5. MCG/L  |
| T43909 1,2,3-TRICHLOROBENZENE           | < 5. MCG/L  |
| T67109 PHENOL                           | < 10. MCG/L |
| T66409 2-CHLOROPHENOL                   | < 10. MCG/L |
| T66809 2-NITROPHENOL                    | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL               | < 10. MCG/L |
| T66509 2,4-DICHLOROPHENOL               | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL          | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL            | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL            | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL                | < 10. MCG/L |
| T66909 4-NITROPHENOL                    | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL       | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL                | < 10. MCG/L |
| T68109 BIS(2-CHLOROISOPROPYL)ETHER      |             |
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L |
| T65909 N-NITROSDI-N-PROPYLAMINE         | < 10. MCG/L |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L |
| T65709 NITROBENZENE                     | < 10. MCG/L |
| T65509 ISOPHORONE                       | < 10. MCG/L |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L |
| T63009 ACENAPHTHENE                     | < 10. MCG/L |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L |

NA

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51088

SAMPLE RECEIVED: 85/04/19/

CHARGE: 28.50

POLITICAL SUBDIVISION: MALTA

COUNTY: SARATOGA

LOCATION: LUTHER FOREST

TIME OF SAMPLING: 85/04/18 13:10

DATE PRINTED: 85/05/31

| PARAMETER                          | RESULT       |
|------------------------------------|--------------|
| T64609 DIETHYLPHTHALATE            | < 10. MCG/L  |
| T65209 FLUORENE                    | < 10. MCG/L  |
| T68409 4-CHLOROPHENYL PHENYL ETHER | NA           |
| T66009 N-NITROSDIPHENYLAMINE       | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE       | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER  | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE           | < 10. MCG/L  |
| T66109 PHENANTHRENE                | < 10. MCG/L  |
| T63209 ANTHRACENE                  | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE         | < 10. MCG/L  |
| T68009 FLUORANTHENE                | < 10. MCG/L  |
| T66209 PYRENE                      | < 10. MCG/L  |
| T63809 BENZIDINE                   | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE      | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE          | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE      | < 30. MCG/L  |
| T64209 CHRYSENE                    | < 30. MCG/L  |
| T67909 BIS(2-ETHYLMEXYL)PHTHALATE  | < 30. MCG/L  |
| T65009 DIOCTYLPHTHALATE            | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE        | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE        | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE              | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE      | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE      | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE          | < 30. MCG/L  |
| T15709 HCH, ALPHA                  | < 10. MCG/L  |
| T15809 HCH, BETA                   | < 10. MCG/L  |
| T35609 HCH, GAMMA (LINDANE)        | < 10. MCG/L  |
| T16009 HCH, DELTA                  | < 10. MCG/L  |
| T08009 HEPTACHLOR                  | < 10. MCG/L  |
| T07709 ALDRIN                      | < 10. MCG/L  |
| T08309 HEPTACHLOR EPOXIDE          | < 10. MCG/L  |
| T43309 ENDOSULFAN I                | < 10. MCG/L  |
| T14809 DDE -PARA, PARA             | < 10. MCG/L  |
| T08509 DIELDRIN                    | < 10. MCG/L  |
| T08409 ENDRIN                      | < 10. MCG/L  |
| T14909 DDD -PARA, PARA             | < 10. MCG/L  |
| T43409 ENDOSULFAN II               | < 10. MCG/L  |
| T67409 ENDRIN ALDEHYDE             | < 10. MCG/L  |
| T67309 ENDOSULFAN SULFATE          | < 10. MCG/L  |
| T14709 DDT -PARA, PARA             | < 10. MCG/L  |
| T39809 PCB, AROCLOR 1221           | < 0.05 MCG/L |
| T38009 PCB, AROCLOR 1016/1242      | < 0.05 MCG/L |
| T38109 PCB, AROCLOR 1254           | < 0.05 MCG/L |
| T41609 PCB, AROCLOR 1260           | < 0.05 MCG/L |
| T52209 PCB, AROCLOR 1248           | < 0.05 MCG/L |

\*\*\*\* END OF REPORT \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

## RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51089 SAMPLE RECEIVED: 85/04/19/ CHARGE: 28.50  
PROGRAM: 100: MUNICIPAL WATER SUPPLIES  
SOURCE ID: DRAINAGE BASIN: 11 GAZETTEER CODE: 4560  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LATITUDE: LONGITUDE: Z DIRECTION:  
LOCATION: LUTHER FOREST  
DESCRIPTION: TAP AT WELL 2 RAW WATER  
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY  
TEST PATTERN: PPEP: F.R. METHODS 625, 601 AND EPA METH 503.1  
SAMPLE TYPE: 250: GROUND WATER  
TIME OF SAMPLING: 85/04/18 13:25 DATE PRINTED: 85/05/31

| PARAMETER                        | RESULT     |
|----------------------------------|------------|
| T62009 CHLOROMETHANE             | < 1. MCG/L |
| T61809 BROMOMETHANE              | < 1. MCG/L |
| T41009 VINYL CHLORIDE            | < 1. MCG/L |
| T70209 DICHLORODIFLUOROMETHANE   | < 1. MCG/L |
| T61909 CHLOROETHANE              | < 1. MCG/L |
| T61709 TRICHLOROFLUOROMETHANE    | < 1. MCG/L |
| T23809 DICHLOROMETHANE           | < 1. MCG/L |
| T50909 1,1-DICHLOROETHENE        | < 1. MCG/L |
| T51909 1,1-DICHLOROETHANE        | < 1. MCG/L |
| T61209 TRANS-1,2-DICHLOROETHENE  | < 1. MCG/L |
| T39009 CHLOROFORM                | < 1. MCG/L |
| T50809 1,2-DICHLOROETHANE        | < 1. MCG/L |
| T23609 1,1,1-TRICHLOROETHANE     | < 1. MCG/L |
| T36609 CARBON TETRACHLORIDE      | < 1. MCG/L |
| T38909 BROMODICHLOROMETHANE      | < 1. MCG/L |
| T61309 1,2-DICHLOROPROPANE       | < 1. MCG/L |
| T61509 TRANS-1,3-DICHLOROPROPENE | < 1. MCG/L |
| T41109 TRICHLOROETHYLENE         | < 1. MCG/L |
| T44909 DIBROMOCHLOROMETHANE      | < 1. MCG/L |
| T61409 CIS-1,3-DICHLOROPROPENE   | < 1. MCG/L |
| T51709 1,1,2-TRICHLOROETHANE     | < 1. MCG/L |
| T61109 2-CHLOROETHYL VINYL ETHER | < 1. MCG/L |
| T42109 BROMOFORM                 | < 1. MCG/L |
| T51809 1,1,2,2-TETRACHLOROETHANE | < 1. MCG/L |
| T41209 TETRACHLOROETHENE         | < 1. MCG/L |
| T40909 CHLOROBENZENE             | < 1. MCG/L |
| T49709 1,3-DICHLOROBENZENE       | < 1. MCG/L |
| T44109 1,2-DICHLOROBENZENE       | < 1. MCG/L |
| T44209 1,4-DICHLOROBENZENE       | < 1. MCG/L |
| T34409 BENZENE                   | < 1. MCG/L |
| T39209 TOLUENE                   | < 1. MCG/L |
| T51009 ETHYLBENZENE              | < 1. MCG/L |
| T85209 1-CHLOROCYCLOHEXENE-1     | < 1. MCG/L |

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REGIONAL DIRECTOR OF PH ENGINEERING  
N.Y.S. DEPARTMENT OF HEALTH - BLDG 7A  
STATE OFFICE CAMPUS  
ALBANY, N.Y.

SUBMITTED BY: LITWTN

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 510A9

SAMPLE RECEIVED: 85/04/19/

CHARGE: 28.50

POLITICAL SUBDIVISION: MALTA

COUNTY: SARATOGA

LOCATION: LUTHER FOREST

TIME OF SAMPLING: 85/04/18 13:25

DATE PRINTED: 85/05/31

| PARAMETER                               | RESULT      |
|-----------------------------------------|-------------|
| T70409 PARA-XYLENE                      | < 1. MCG/L  |
| T70309 META-XYLENE                      | < 1. MCG/L  |
| T51409 ORTHO-XYLENE                     | < 1. MCG/L  |
| T85309 CUMENE                           | < 1. MCG/L  |
| T85409 STYRENE                          | < 1. MCG/L  |
| T85509 P-BROMOFLUOROBENZENE             | < 1. MCG/L  |
| T51109 N-PROPYLBENZENE                  | < 1. MCG/L  |
| T85609 TERT-BUTYLBENZENE                | < 1. MCG/L  |
| T85709 O/P-CHLOROTOLUENE                | < 1. MCG/L  |
| T51209 BROMOBENZENE                     | < 1. MCG/L  |
| T50509 META-CHLOROTOLUENE               | < 1. MCG/L  |
| T85809 1,3,5-TRIMETHYLBENZENE           | < 1. MCG/L  |
| T85909 1,2,4-TRIMETHYLBENZENE           | < 1. MCG/L  |
| T86009 P-CYMELE                         | < 1. MCG/L  |
| T86109 CYCLOPROPYLBENZENE               | < 1. MCG/L  |
| T86209 SEC-BUTYLBENZENE                 | < 1. MCG/L  |
| T86309 N-BUTYLBENZENE                   | < 1. MCG/L  |
| T86409 2,3-BENZOFURAN                   | < 1. MCG/L  |
| T52509 HEXACHLOROCYCLOPENTADIENE (C-46) | < 5. MCG/L  |
| T44009 1,2,4-TRICHLOROBENZENE           | < 5. MCG/L  |
| T65609 NAPHTHALENE                      | < 5. MCG/L  |
| T43909 1,2,3-TRICHLOROBENZENE           | < 5. MCG/L  |
| T67109 PHENOL                           | < 10. MCG/L |
| T66409 2-CHLOROPHENOL                   | < 10. MCG/L |
| T66809 2-NITROPHENOL                    | < 10. MCG/L |
| T66609 2,4-DIMETHYLPHENOL               | < 10. MCG/L |
| T66509 2,4-DICHLOROPHENOL               | < 10. MCG/L |
| T66309 4-CHLORO-3-METHYLPHENOL          | < 10. MCG/L |
| T67209 2,4,6-TRICHLOROPHENOL            | < 10. MCG/L |
| T49609 2,4,5-TRICHLOROPHENOL            | < 10. MCG/L |
| T66709 2,4-DINITROPHENOL                | < 10. MCG/L |
| T66909 4-NITROPHENOL                    | < 10. MCG/L |
| T68509 2-METHYL-4,6-DINITROPHENOL       | < 10. MCG/L |
| T67009 PENTACHLOROPHENOL                | < 10. MCG/L |
| T68109 BIS(2-CHLOROISOPROPYL)ETHER      |             |
| T63909 BIS(2-CHLOROETHYL)ETHER          | < 10. MCG/L |
| T65909 N-NITROSODI-N-PROPYLAMINE        | < 10. MCG/L |
| T65309 HEXACHLOROETHANE                 | < 10. MCG/L |
| T65709 NITROBENZENE                     | < 10. MCG/L |
| T65509 ISOPHORONE                       | < 10. MCG/L |
| T68609 BIS(2-CHLOROETHOXY)METHANE       | < 10. MCG/L |
| T49209 HEXACHLOROCYCLOPENTADIENE (C-56) | < 10. MCG/L |
| T64109 2-CHLORONAPHTHALENE              | < 10. MCG/L |
| T64909 2,6-DINITROTOLUENE               | < 10. MCG/L |
| T63109 ACENAPHTHYLENE                   | < 10. MCG/L |
| T64709 DIMETHYLPHTHALATE                | < 10. MCG/L |
| T63009 ACENAPHTHENE                     | < 10. MCG/L |
| T64809 2,4-DINITROTOLUENE               | < 10. MCG/L |

NA

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: S1089 SAMPLE RECEIVED: 85/04/19/ CHARGE: 28.50  
POLITICAL SUBDIVISION: MALTA COUNTY: SARATOGA  
LOCATION: LUTHER FOREST  
TIME OF SAMPLING: 85/04/18 13:25 DATE PRINTED: 85/05/31

| PARAMETER                          | RESULT       |
|------------------------------------|--------------|
| T64609 DIETHYLPHTHALATE            | < 10. MCG/L  |
| T65209 FLUORENE                    | < 10. MCG/L  |
| T68409 4-CHLOROPHENYL PHENYL ETHER | NA           |
| T66009 N-NITROSODIPHENYLAMINE      | < 10. MCG/L  |
| T65109 1,2-DIPHENYLHYDRAZINE       | < 10. MCG/L  |
| T68309 4-BROMOPHENYL PHENYL ETHER  | < 10. MCG/L  |
| T48809 HEXACHLOROBENZENE           | < 10. MCG/L  |
| T66109 PHENANTHRENE                | < 10. MCG/L  |
| T63209 ANTHRACENE                  | < 10. MCG/L  |
| T64409 DI-N-BUTYLPHTHALATE         | < 10. MCG/L  |
| T68009 FLUORANTHENE                | < 10. MCG/L  |
| T66209 PYRENE                      | < 10. MCG/L  |
| T63809 BENZIDINE                   | < 200. MCG/L |
| T64009 BUTYL BENZYL PHTHALATE      | < 30. MCG/L  |
| T63309 BENZO(A)ANTHRACENE          | < 30. MCG/L  |
| T64509 3,3'-DICHLOROBENZIDINE      | < 30. MCG/L  |
| T64209 CHRYSENE                    | < 30. MCG/L  |
| T67909 BIS(2-ETHYLHEXYL)PHTHALATE  | < 30. MCG/L  |
| T65009 DIOCTYLPHTHALATE            | < 30. MCG/L  |
| T63409 BENZO(B)FLUORANTHENE        | < 30. MCG/L  |
| T63509 BENZO(K)FLUORANTHENE        | < 30. MCG/L  |
| T63609 BENZO(A)PYRENE              | < 30. MCG/L  |
| T65409 INDENO(1,2,3-CD)PYRENE      | < 30. MCG/L  |
| T64309 DIBENZO(A,H)ANTHRACENE      | < 30. MCG/L  |
| T63709 BENZO(GHI)PERYLENE          | < 30. MCG/L  |
| T15709 HCH, ALPHA                  | < 10. MCG/L  |
| T15809 HCH, BETA                   | < 10. MCG/L  |
| T35609 HCH, GAMMA (LINDANE)        | < 10. MCG/L  |
| T16009 HCH, DELTA                  | < 10. MCG/L  |
| T08009 HEPTACHLOR                  | < 10. MCG/L  |
| T07709 ALDRIN                      | < 10. MCG/L  |
| T08309 HEPTACHLOR EPOXIDE          | < 10. MCG/L  |
| T43309 ENDOSULFAN I                | < 10. MCG/L  |
| T14809 DDE -PARA, PARA             | < 10. MCG/L  |
| T08509 DIELDRIN                    | < 10. MCG/L  |
| T08409 ENDRIN                      | < 10. MCG/L  |
| T14909 DDD -PARA, PARA             | < 10. MCG/L  |
| T43409 ENDOSULFAN II               | < 10. MCG/L  |
| T67409 ENDRIN ALDEHYDE             | < 10. MCG/L  |
| T67309 ENDOSULFAN SULFATE          | < 10. MCG/L  |
| T14709 DDT -PARA, PARA             | < 10. MCG/L  |
| T39809 PCB, AROCLOR 1221           | < 0.05 MCG/L |
| T38009 PCB, AROCLOR 1016/1242      | < 0.05 MCG/L |
| T38109 PCB, AROCLOR 1254           | < 0.05 MCG/L |
| T41609 PCB, AROCLOR 1260           | < 0.05 MCG/L |
| T52209 PCB, AROCLOR 1248           | < 0.05 MCG/L |

\*\*\*\*\* END OF REPORT \*\*\*\*\*

**DUNN GEOSCIENCE, JUNE 1987 TO AUGUST 1990  
EARLY WARNING MONITORING SYSTEM**



Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

June 29 to July 1, 1987

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | (Duplicate) |        |        |        |        |        |        |      |      |      |      |
|----------------------------------------|--------------------|-------------|--------|--------|--------|--------|--------|--------|------|------|------|------|
|                                        |                    | DGC-1S      | DGC-1D | DGC-2S | DGC-2D | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B | SW-C | SW-D |
| Benzene                                | 2.0                | ND          | ND     | ND     | ND     | 3.5    | ND     | ND     | ND   | ND   | ND   | ND   |
| Tetrachloroethylene                    | 2.0                | ND          | ND     | ND     | ND     | ND     | ND     | ND     | ND   | ND   | 2.0  | ND   |
| Boron                                  | 100                | ND          | ND     | ND     | ND     | ND     | ND     | 150    | ND   | ND   | ND   | ND   |
| Aluminum                               | 100                | <500        | <500   | <500   | <500   | <500   | <500   | <500   | <500 | <500 | <500 | <500 |

Resampled: July 31, 1987

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit |        |      |
|----------------------------------------|--------------------|--------|------|
|                                        |                    | DGC-2D | SW-C |
| Benzene                                | 2.0                | ND     | ND   |
| Tetrachloroethylene                    | 2.0                | ND     | ND   |

ND Not detected.  
NA Not available.

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

November 5, 1987

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | DGC-1S | DGC-1D | DGC-2S | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B | SW-C | SW-D |
|----------------------------------------|--------------------|--------|--------|--------|--------|--------|--------|------|------|------|------|
| Volatile Organics<br>(EPA Method 624)  | NA                 | ND     | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   |
| Aluminum                               | 100                | NA     | NA     | NA     | 10,000 | NA     | NA     | NA   | NA   | 130  | NA   |

January 19-20, 1988

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | DGC-1S | DGC-1D | DGC-2S | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B | SW-C | SW-D |
|----------------------------------------|--------------------|--------|--------|--------|--------|--------|--------|------|------|------|------|
| Volatile Organics<br>(EPA Method 624)  | NA                 | ND     | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   |

ND Not detected.  
NA Not available.

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

April 18-19, 1988

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | (Duplicate) |        |        |        |        |        |        |      |      |      |      |                     |
|----------------------------------------|--------------------|-------------|--------|--------|--------|--------|--------|--------|------|------|------|------|---------------------|
|                                        |                    | DGC-1S      | DGC-1D | DGC-2S | DGC-2D | DGC-3S | DGC-3D | DGC-3D | SW-A | SW-B | SW-C | SW-D | SW-D<br>(Duplicate) |
| Volatile Organics<br>(EPA Method 624)  | NA                 | ND          | ND     | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   | ND                  |
| Lead                                   | 10                 | ND          | ND     | ND     | ND     | 10     | ND     | ND     | 20   | ND   | ND   | ND   | ND                  |

July 20, 1988

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit |        |        |        |        |        |      |      |      |      |  |  |
|----------------------------------------|--------------------|--------|--------|--------|--------|--------|------|------|------|------|--|--|
|                                        | DGC-1S             | DGC-1D | DGC-2S | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B | SW-C | SW-D |  |  |
| Volatile Organics<br>(EPA Method 624)  | ND                 | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   |  |  |
|                                        |                    |        |        |        |        |        |      |      |      |      |  |  |
|                                        |                    |        |        |        |        |        |      |      |      |      |  |  |
| ND Not detected.                       |                    |        |        |        |        |        |      |      |      |      |  |  |
| NA Not available.                      |                    |        |        |        |        |        |      |      |      |      |  |  |

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

October 11, 1988

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit |        |        |        |        |        |      |      |      |      | Field<br>Blank |
|----------------------------------------|--------------------|--------|--------|--------|--------|--------|------|------|------|------|----------------|
|                                        | DGC-1S             | DGC-1D | DGC-2S | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B | SW-C | SW-D |                |
| Methylene Chloride                     | NA                 | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   | 99             |
| Acetone                                | NA                 | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   | 37             |
| 2-Butanone                             | NA                 | ND     | ND     | ND     | ND     | ND     | ND   | ND   | ND   | ND   | 100            |

January 19, 1989

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit |        |        |        |        |        |      |      |                     |      | SW-D |
|----------------------------------------|--------------------|--------|--------|--------|--------|--------|------|------|---------------------|------|------|
|                                        | DGC-1S             | DGC-1D | DGC-2S | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B | SW-B<br>(Duplicate) | SW-C |      |
| Carbon Tetrachloride                   | 0.5                | ND     | ND     | ND     | ND     | ND     | ND   | 1.1  | 1.1                 | ND   | ND   |

ND Not detected.  
NA Not available.

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

April 10, 1989

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | DGC-1S | DGC-1D | DGC-2S | (Duplicate) |    | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B  | (Duplicate) |    | SW-C | SW-D |
|----------------------------------------|--------------------|--------|--------|--------|-------------|----|--------|--------|--------|------|-------|-------------|----|------|------|
|                                        |                    |        |        |        |             |    |        |        |        |      |       |             |    |      |      |
| Methylene Chloride                     | 0.5                | #B     | 11.0B  | 0.58B  | 7.3B        | #B | #B     | #B     | #B     | 9.3B | 0.58B | 10.0B       | #B | #B   | #B   |
| Chloroform                             | 0.5                | ND     | ND     | ND     | ND          | ND | ND     | ND     | ND     | ND   | ND    | ND          | ND | ND   | ND   |
| Toluene                                | 0.5                | ND     | ND     | ND     | ND          | ND | ND     | ND     | ND     | ND   | ND    | ND          | ND | ND   | ND   |

April 10, 1989

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | Field<br>Blank | Trip<br>Blank | Procedural<br>Blank |
|----------------------------------------|--------------------|----------------|---------------|---------------------|
|                                        |                    |                |               |                     |
| Methylene Chloride                     | 0.5                | 0.96B          | #B            | 0.85B               |
| Chloroform                             | 0.5                | 2.1            | ND            | ND                  |
| Toluene                                | 0.5                | 0.89           | ND            | ND                  |

ND Not detected.

NA Not available.

# Laboratory contamination confirmed, reported concentration less than 8.5 ug/L.

B Analyte also detected in ERCO Laboratory blank.

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

| July 12, 1989                          |                    |        |        |             |        |        |        |        |      |             |      |
|----------------------------------------|--------------------|--------|--------|-------------|--------|--------|--------|--------|------|-------------|------|
| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | DGC-1S | DGC-1D | DGC-1D      | DGC-2S | DGC-2D | DGC-3S | DGC-3D | SW-A | SW-B        | SW-D |
|                                        |                    |        |        | (Duplicate) |        |        |        |        |      | (Duplicate) |      |
| Methylene Chloride                     | NA                 | *B     | *B     | *B          | *B     | *B     | *B     | *B     | *B   | *B          | *B   |
| Dichlorodifluoromethane<br>(Freon 12)  | 0.5                | 15L    | 12L    | ND          | 22L    | 12L    | 3.6L   | 3.6L   | 3.6L | ND          | ND   |
| Trichloroethylene                      | 0.5                | ND     | ND     | ND          | ND     | ND     | 2.0    | ND     | ND   | ND          | ND   |

| July 12, 1989                          |                    |                |               |                     |
|----------------------------------------|--------------------|----------------|---------------|---------------------|
| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | Field<br>Blank | Trip<br>Blank | Procedural<br>Blank |
|                                        |                    |                |               |                     |
| Methylene Chloride                     | NA                 | *B             | *B            | 1.3                 |
| Dichlorodifluoromethane<br>(Freon 12)  | 0.5                | 5.9L           | 3.6L          | NA                  |
| Trichloroethylene                      | 0.5                | ND             | ND            | NA                  |

ND Not detected.

NA Not available.

\* Laboratory contamination confirmed, reported concentration less than 5.6 ug/L.

B Analyte also detected in ERCO Laboratory blank.

L Laboratory contamination suspected.

LUTHER.XLS

CH2RAGHTY & MILLER, INC.

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

August 15, 1989

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit |      |             |      |      |      |
|----------------------------------------|--------------------|------|-------------|------|------|------|
|                                        | PW-1               | PW-2 | (Duplicate) |      | PW-4 | PW-6 |
| Methylene Chloride                     | 0.5                | 1.1B | 2.5B        | 1.0B | 2.5B | 3.8B |
| 1,2-Dichloroethane                     | 0.5                | 4.8B | 4.5B        | 2.6B | 5.0B | 5.0B |
| Chloromethane                          | 0.5                | 0.7  | ND          | ND   | ND   | ND   |
| Chloroform                             | 0.5                | ND   | 7.4         | 8.0  | ND   | ND   |
| Naphthalene                            | 0.5                | ND   | ND          | 0.9B | ND   | ND   |
| 1,1,1-Trichloroethane                  | 0.5                | ND   | ND          | ND   | ND   | ND   |

Resampled: August 15, 1989

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit |      | DGC-1S |      | DGC-1D |      | DGC-2S |      | DGC-2D |      | DGC-3S |    | DGC-3       |      | DGC-3D |      | SW-A |      | SW-A        |      | SW-B |    | SW-C |    | SW-D |      |
|----------------------------------------|--------------------|------|--------|------|--------|------|--------|------|--------|------|--------|----|-------------|------|--------|------|------|------|-------------|------|------|----|------|----|------|------|
|                                        |                    |      |        |      |        |      |        |      |        |      |        |    | (Duplicate) |      |        |      |      |      | (Duplicate) |      |      |    |      |    |      |      |
| Methylene Chloride                     | 0.5                | 3.2B | 5.6B   | 5.9B | 4.6B   | 4.1B | 1.5B   | 3.6B | 1.4B   | 1.2B | 1.2B   | ND | ND          | 1.5B | 3.9B   | 1.5B | ND   | 4.3B | ND          | 1.5B | 3.8B | ND | 3.8B | ND | 1.6B | 4.0B |
| 1,2-Dichloroethane                     | 0.5                | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND | ND          | ND   | ND     | ND   | ND   | ND   | ND          | ND   | ND   | ND | ND   | ND | ND   | ND   |
| Chloromethane                          | 0.5                | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND | ND          | ND   | ND     | ND   | ND   | ND   | ND          | ND   | ND   | ND | ND   | ND | ND   | ND   |
| Chloroform                             | 0.5                | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND | ND          | ND   | ND     | ND   | ND   | ND   | ND          | ND   | ND   | ND | ND   | ND | ND   | ND   |
| Naphthalene                            | 0.5                | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND   | ND     | ND | ND          | ND   | ND     | ND   | ND   | ND   | ND          | ND   | ND   | ND | ND   | ND | ND   | ND   |
| 1,1,1-Trichloroethane                  | 0.5                | ND   | ND     | ND   | ND     | 1.3  | ND     | ND   | 1.3    | ND   | ND     | ND | ND          | ND   | ND     | ND   | ND   | ND   | ND          | ND   | ND   | ND | ND   | ND | ND   | ND   |

ND Not detected.

NA Not available.

B Analyte also detected in ERCO Laboratory blank.

LUTHER.XLS

CLERCHY & MILLER, INC.

Table E-14. Dunn Geoscience Luther Forest Well Field Early Warning Groundwater Monitoring System, June/July 1987 to Date, Malta Rocket Fuel Area Site, Towns of Saratoga and Stillwater, New York.

Resampled: August 15, 1989

| Parameters<br>(concentrations in ug/L) | Reporting<br>Limit | Field<br>Blank | Trip<br>Blank | Procedural |         |         | Procedural |         |         |
|----------------------------------------|--------------------|----------------|---------------|------------|---------|---------|------------|---------|---------|
|                                        |                    |                |               | Blank      | Blank   | Blank   | Blank      | Blank   | Blank   |
|                                        |                    |                |               | 8/24/90    | 8/24/90 | 8/24/90 | 8/24/90    | 8/24/90 | 8/24/90 |
| Methylene Chloride                     | 0.5                | 0.8B           | 1.2B          | 3.9        | 1.1     | ND      | ND         | 0.9     |         |
| 1,2-Dichloroethane                     | 0.5                | 2.2B           | 4.0B          | 2.2        | 3.8     | 3.4     | 3.0        |         |         |
| Chloromethane                          | 0.5                | ND             | ND            | ND         | ND      | ND      | ND         | ND      |         |
| Chloroform                             | 0.5                | ND             | ND            | ND         | ND      | ND      | ND         | ND      |         |
| Naphthalene                            | 0.5                | ND             | ND            | 1.7        | 1.0     | ND      | 1.3        |         |         |
| 1,1,1-Trichloroethane                  | 0.5                | ND             | ND            | ND         | ND      | ND      | ND         | ND      |         |

ND Not detected.

NA Not available.

B Analyte also detected in ERCO Laboratory blank.



Table E-15

Table 1

November 30, 1989

Reporting Limit

Sampling Locations

Parameters

DGC-1S

DGC-1D

DGC-2S

DGC-2D

X-1

DGC-3S

DGC-3D

SW-A

SW-B

SW-C

SW-D

X-2

(SW-D)

Methylene Chloride

0.5

1.3B

0.56B

0.53B

0.63B

1.1B

0.67B

1.1B

0.60B

0.92B

0.85B

0.57B

1.7B

Bromomethane

0.5

ND

ND

ND

ND

ND

ND

6.2

ND

ND

ND

ND

ND

Chloromethane

0.5

ND

ND

ND

ND

ND

ND

27

ND

ND

ND

ND

ND

Carbon Tetrachloride

0.5

ND

ND

ND

ND

ND

ND

ND

ND

0.90

ND

ND

ND

Bromochloromethane

0.5

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

1.7

ND

Results are in ug/L

B = Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

December 27, 1989

Reporting Limit

Sampling Locations

Parameters

10S

10D

13S

13D

X-1

DGC-3D

X-2

Field Blank

Trip Blank

Procedural Blank

Procedural Blank

1/4/90

1/4/90

Methylene Chloride

0.5

ND

0.90B

ND

0.89B

2.8B

0.71B

2.4B

1.8B

2.0

0.95

2.9

Carbon Tetrachloride

0.5

4.8

ND

16

ND

ND

ND

ND

ND

ND

ND

ND

ND

Chloroform

0.5

ND

ND

0.62

ND

ND

ND

ND

ND

ND

ND

ND

ND

Table E-16

**Luther Forest Well Field Early Warning Groundwater Monitoring System  
February 1990 Analytical Results**

| February 22, 1990      |                         | Sampling Locations |              |                  |                  |        |        |                 |       |       |       |       |
|------------------------|-------------------------|--------------------|--------------|------------------|------------------|--------|--------|-----------------|-------|-------|-------|-------|
| Parameters             | Reporting Limit<br>ug/L | DGC-1S             | DGC-1D       | DGC-2S           | DGC-2D           | DGC-3S | DGC-3D | X-2<br>(DGC-3D) | SW-A  | SW-B  | SW-C  | SW-D  |
| Methylene Chloride     | 0.5                     | 3.9B#              | 3.0B#        | 0.70B#           | 0.90B#           | 0.62B# | 0.77B# | ND              | ND    | ND    | ND    | ND    |
| Chloromethane          | 0.5                     | ND                 | ND           | ND               | ND               | ND     | ND     | 0.92            | ND    | ND    | ND    | ND    |
| Carbon Tetrachloride   | 0.5                     | ND                 | ND           | ND               | ND               | ND     | ND     | ND              | ND    | 0.88  | ND    | ND    |
|                        |                         |                    |              |                  |                  |        |        |                 |       |       |       |       |
| Parameters             | Reporting Limit<br>ug/L | 10S                | X-1<br>(10S) | 10D              | 11S              | 13D    |        |                 |       |       |       |       |
| Methylene Chloride     | 0.5                     | ND                 | ND           | ND               | ND               | ND     |        |                 |       |       |       |       |
| Chloromethane          | 0.5                     | ND                 | ND           | ND               | ND               | ND     |        |                 |       |       |       |       |
| Carbon Tetrachloride   | 0.5                     | 5.5                | 5            | ND               | 8.4              | ND     |        |                 |       |       |       |       |
|                        |                         |                    |              |                  |                  |        |        |                 |       |       |       |       |
| Parameters             | Reporting Limit<br>ug/L | Field Blank        | Trip Blank   | Procedural Blank | Procedural Blank | Blank  | Blank  | Blank           | Blank | Blank | Blank | Blank |
| Methylene Chloride     | 0.5                     | 4.7#               | 4.4#         | 1.1              | ND               | ND     | ND     | ND              | ND    | ND    | ND    | ND    |
| Chloromethane          | 0.5                     | ND                 | ND           | ND               | ND               | ND     | ND     | ND              | ND    | ND    | ND    | ND    |
| Carbon Tetrachloride   | 0.5                     | ND                 | ND           | ND               | ND               | ND     | ND     | ND              | ND    | ND    | ND    | ND    |
| 1,1,1-Trichloromethane | 0.5                     | ND                 | ND           | 0.53             | ND               | ND     | ND     | ND              | ND    | ND    | ND    | ND    |
| Naphthalene            | 0.5                     | ND                 | ND           | ND               | 0.75             | ND     | ND     | ND              | ND    | ND    | ND    | ND    |

B = Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

# = Compound also detected in the

B = Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

# = Compound also detected in the procedural blank.

Results are in ug/L

# Luther Forest Well Field Early Warning Groundwater Monitoring System May 1990 Analytical Results

| May 30, 1990         |                 | Sampling Locations |            |                  |                  |                  |                  |          |      |      |      |       |
|----------------------|-----------------|--------------------|------------|------------------|------------------|------------------|------------------|----------|------|------|------|-------|
| Parameters           | Reporting Limit | DGC-1S             | DGC-1D     | DGC-2S           | DGC-2D           | DGC-3S           | DGC-3D           | X-1      | SW-A | SW-B | SW-C | SW-D  |
|                      | ug/L            |                    |            |                  |                  |                  |                  | (DGC-3D) |      |      |      |       |
| Methylene Chloride   | 0.5             | ND                 | ND         | ND               | ND               | ND               | 0.93B            | ND       | ND   | ND   | ND   | 1.4B# |
| Carbon Tetrachloride | 0.5             | ND                 | ND         | ND               | ND               | ND               | ND               | ND       | ND   | ND   | ND   | ND    |
| .                    |                 |                    |            |                  |                  |                  |                  |          |      |      |      |       |
| Parameters           | Reporting Limit | 10S                | 10D        | 13S              | X-2              |                  |                  |          |      |      |      |       |
|                      | ug/L            |                    |            |                  | (13S)            |                  |                  |          |      |      |      |       |
| Methylene Chloride   | 0.5             | ND                 | 6.6B       | 5.6B             | 1.7B#            | 7.7B             |                  |          |      |      |      |       |
| Carbon Tetrachloride | 0.5             | 3.2                | ND         | 18               | 16               | ND               |                  |          |      |      |      |       |
| .                    |                 |                    |            |                  |                  |                  |                  |          |      |      |      |       |
| Parameters           | Reporting Limit | Field Blank        | Trip Blank | Procedural Blank | Procedural Blank | Procedural Blank | Procedural Blank |          |      |      |      |       |
|                      | ug/L            |                    |            |                  |                  |                  |                  |          |      |      |      |       |
| Methylene Chloride   | 0.5             | 2.3#               | 3.2#       | ND               | 1.3              | ND               | 0.97             |          |      |      |      |       |
| Carbon Tetrachloride | 0.5             | ND                 | ND         | ND               | ND               | ND               | ND               |          |      |      |      |       |
| Naphthalene          | 0.5             | ND                 | ND         | ND               | 4.9              | ND               | ND               |          |      |      |      |       |

**B** = Analytical results should not be considered reliable for this common lab contaminant unless limit or 10 times the blank result.

**#** = Compound also detected in the procedural blank.

**Results are in ug/L**

Table E-18

**Luther Forest Well Field Early Warning Groundwater Monitoring System**  
**August 1990 Analytical Results**

| August 28, 1990      |                 |                    |            |                  |                  |        |               |      |       |      |      |      |  |
|----------------------|-----------------|--------------------|------------|------------------|------------------|--------|---------------|------|-------|------|------|------|--|
|                      |                 | Sampling Locations |            |                  |                  |        |               |      |       |      |      |      |  |
| Parameters           | Reporting Limit | DGC-1S             | DGC-1D     | DGC-2S           | DGC-2D           | DGC-3S | DGC-3D        | X-1  | SW-A  | SW-B | SW-C | SW-D |  |
|                      |                 | (DGC-3D)           |            |                  |                  |        |               |      |       |      |      |      |  |
|                      |                 | ug/L               |            |                  |                  |        |               |      |       |      |      |      |  |
| Methylene Chloride   | 0.5             | 1.3B#              | 1.6B#      | 1.2B#            | 1.3B#            | 1.4B#  | 1.4B#         | 2.1B | 1.5B# | 1.5B | 1.5B | 2.2B |  |
| Carbon Tetrachloride | 0.5             | ND                 | ND         | ND               | ND               | ND     | ND            | ND   | ND    | ND   | ND   | ND   |  |
|                      |                 |                    |            |                  |                  |        |               |      |       |      |      |      |  |
| Parameters           | Reporting Limit | 10S                | 10D        | 13S              | 13D              | X-2    |               |      |       |      |      |      |  |
|                      |                 | (13D)              |            |                  |                  |        |               |      |       |      |      |      |  |
|                      |                 | ug/L               |            |                  |                  |        |               |      |       |      |      |      |  |
| Methylene Chloride   | 0.5             | 1.4B#              | 1.0B#      | 0.79B#           | 1.4B#            | 2.0B   |               |      |       |      |      |      |  |
| Carbon Tetrachloride | 0.5             | 1.6                | ND         | 6.4              | ND               | ND     |               |      |       |      |      |      |  |
|                      |                 |                    |            |                  |                  |        |               |      |       |      |      |      |  |
| Parameters           | Reporting Limit | Field Blank        | Trip Blank | Procedural Blank | Procedural Blank |        |               |      |       |      |      |      |  |
|                      |                 | ug/L               |            |                  |                  |        |               |      |       |      |      |      |  |
|                      |                 |                    |            |                  |                  |        | 9/6/90 9/7/90 |      |       |      |      |      |  |
| Methylene Chloride   | 0.5             | 13#                | 13#        | 0.7              | ND               |        |               |      |       |      |      |      |  |
| Carbon Tetrachloride | 0.5             | ND                 | ND         | ND               | ND               |        |               |      |       |      |      |      |  |

B = Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

# = Compound also detected in the procedural blank.

Results are in ug/L

**APPENDIX F**

**Project Organization**



## DENNIS COLTON

Senior Consultant  
and Senior Associate

### CREDENTIALS/REGISTRATION

M.A. Geology, Adelphi University, 1978

B.A. Geology, University of Maryland, 1972

Certified Professional Geologist: American Institute of Professional Geologists (No. 6677)

### PROFESSIONAL AFFILIATIONS

Association of Ground Water Scientists and Engineers (NWWA)

### FIELDS OF SPECIALIZATION

- Organization and supervision of projects relating to the investigation and evaluation of ground-water contamination incidents at industrial plants and waste disposal sites
- Development and management of ground-water resources for municipal and industrial clients
- Design and supervision of drilling programs utilizing a variety of drilling methods
- Development and evaluation of hydrogeological data
- Hazardous waste site remediation
- Field sampling and analysis

### EXPERIENCE SUMMARY

Mr. Colton was employed as a geologist by the Maryland Geological Survey in 1972 to revise outdated geological maps of the state of Maryland. Since joining Geraghty & Miller, Inc. he has participated in numerous pumping tests and contributed to the evaluation of hydrologic and chemical field data. He was the principal author of the status of ground-water investigations for organic chemicals in the Nassau-Suffolk area of New York for the USEPA sponsored Nassau-Suffolk 208 Program. Mr. Colton has prepared and evaluated technical documents for litigation and compliance purposes. As a project manager, he has designed subsurface investigations in diverse geologic environments utilizing various well drilling methods and ground-water monitoring techniques. He has been responsible for conducting investigations at numerous waste disposal sites, analyzing geologic and ground-water quality data, preparing reports assessing the impact of these sites on ground-water resources, and evaluating remedial alternatives.

### KEY PROJECTS

- Supervised well drilling and construction, core sampling and geophysical logging in Suffolk County, New York, for the EPA- sponsored Suffolk County Flow Augmentation Needs Study.
- Evaluated the extent of ground-water contamination at many municipal and industrial landfill sites. Conducted the field investigation, including soil and water sampling.



KEY PROJECTS (Cont'd.)

- Supervised the installation of monitoring wells to meet RCRA requirements prior to construction of several industrial landfills in the Midwest.
- Evaluated the extent of ground-water contamination at an oil refinery in compliance with NJDEP ECRA requirements.
- Investigated the extent of ground-water contamination at several industrial plant sites from waste disposal of both inorganic and organic chemicals in improperly constructed lagoons.
- Investigated contamination of industrial plant water supplies by organic chemicals from unrecorded past spills or leaks; selected locations for additional water supply wells in areas not affected by contamination.
- Defined hydrologic setting of a private landfill and determined the reliability of the leachate collection system and the potential impact of ground-water contamination for a municipal client interested in purchasing the landfill.
- Directed the field investigation and participated in the design and installation of slurry wall containment systems at several industrial landfill sites in Illinois and New Jersey.
- Defined ground-water contamination in a bedrock aquifer at an industrial site, adjacent to a municipal water supply well field.
- Participated in numerous pumping tests and evaluated the potential water-bearing characteristics of the aquifers tested.
- Project manager for several sites requiring the design of oil recovery systems to collect free product with densities greater than and less than water in Illinois, Pennsylvania, and Massachusetts.
- Project manager for hydrogeologic investigations at CERCLA sites in Indiana and New York.
- Project manager for assessments of PCB contamination in soil and ground water at several chemical plants in the northeast.
- Project manager for a RCRA Facility Investigation (RFI) at a waste disposal facility in New Jersey.
- Conducted environmental site assessments at industrial sites in Massachusetts, Michigan, New Jersey, and New York prior to transfer of site ownership.



KEY PROJECTS (Continued)

- Remedial Investigation/Feasibility Study of floating product, ground water and soils at two firemen's training centers and a petrochemical storage facility.
- Soil remediation program in a Staten Island residential area contaminated by airborne lead from a nearby smelter.
- Remedial Investigation/Feasibility Study of dense non-aqueous phase liquids and ground-water contamination at an inactive hazardous waste landfill in Niagara Falls.

7/89





WILLIAM J. GRAY

Staff Scientist

CREDENTIALS/REGISTRATION

M.A. Soils Geography, State University of New York at Buffalo, 1986  
B.A. Geology, State University of New York at Buffalo, 1983

PROFESSIONAL AFFILIATIONS

Association of Ground Water Scientists and Engineers (NWWA)  
American Institute of Professional Geologists (AIPG)

FIELDS OF SPECIALIZATION

- Organization and supervision of projects relating to the investigation of ground-water contamination at industrial plants and waste disposal sites
- Design and supervision of ground-water monitoring well installations
- Evaluation of hydrogeological data
- Field sampling and analysis
- Design and execution of aquifer tests

EXPERIENCE SUMMARY

Since joining Geraghty & Miller in 1986, Mr. Gray has participated in numerous hydrogeologic field investigations involving ground-water contamination problems at industrial and waste disposal sites. Areas of expertise include knowledge of various methods of well installation and development, ground-water and soil sampling techniques, and coordination of aquifer tests.

Prior to joining Geraghty & Miller, Mr. Gray was working under a teaching/research assistantship at the State University of New York at Buffalo while he conducted a study on the relationship between texture variation and the shrink-swell potential of soils in Clarence, New York.

KEY PROJECTS

- Supervised the installation and testing of a recovery well used to stabilize contaminant migration at the Seymour, Indiana Superfund site.
- Provided technical assistance for a ground-water remediation pilot study using air stripping and UV ozone techniques.
- Participated in surface water contamination investigations in western Massachusetts.
- Supervised the installation of monitoring wells to determine the extent of PCB contamination at a large industrial site.
- Monitored and compiled field data for evaluation of oil recovery systems at several sites in Massachusetts.

3/89



ANDREW J. BARBER

Senior Consultant and Senior Associate -  
Corporate Safety Manager

CREDENTIALS/REGISTRATION

B.S. Chemistry, Union College, 1979

PROFESSIONAL AFFILIATIONS

American Chemical Society  
American Industrial Hygiene Association  
American Society of Safety Engineers  
Association of Ground Water Scientists and Engineers (NWWA)

FIELDS OF SPECIALIZATION

- Hazardous waste site remediation
- Field sampling and analysis
- Health and safety
- Analysis of water-quality and geochemical data
- Fate and transport of contaminants in soil and ground-water systems

EXPERIENCE SUMMARY

Prior to joining Geraghty & Miller, Inc., Mr. Barber was employed by Peabody Coastal Services of Linden, New Jersey, as a member of its Hazardous Material Response Team. While at Peabody, he was directly involved with cleanup activities at several uncontrolled hazardous waste sites. His responsibilities included data and sample collection, supervision of heavy equipment operations, and classification and segregation of waste materials.

Mr. Barber joined the firm in 1980; his responsibilities include geochemistry, project management, and management of the company's Health & Safety Program. As a geochemist with the firm, he has worked on numerous ground-water investigations to characterize the transport and fate of chemical contaminants. He has extensive experience in the development and implementation of ground-water quality investigations, monitoring plans, particularly for RCRA, CERCLA, and state compliance programs.

As a project officer, Mr. Barber has directed investigative and remedial efforts at several sites. Activities include: negotiation with federal, state and/or local regulatory agencies; preparation of workplans and reports; management of field activities; scheduling; regulatory compliance; quality assurance/quality control and contract administration.

As Corporate Safety Manager for the firm, Mr. Barber has developed and managed the company health and safety program. This program includes medical monitoring and extensive training, in compliance with OSHA hazardous waste regulations. He is also responsible for the preparation, review, and implementation of site-specific health and safety plans.

#### KEY PROJECTS

- Supervised remediation of disposal pit containing residual solvents and PCB oil.
- Developed and applied field techniques to analyze volatile organic contaminants in soil and water samples using a portable gas chromatograph.
- Continually involved in analysis and presentation of water quality and geochemical data and the determination of contaminant fate and transport mechanisms.
- Responsible for geochemistry in the negotiation, development and performance of separate remedial investigations at two CERCLA landfill sites.
- Co-authored three volume technical report as part of on-going litigation support for a major environmental lawsuit.
- Project manager for investigation and remedial activities at a major petroleum transfer facility.
- Continually involved in developing work plans for taking representative samples for contaminants in soil, air, and water.
- Project officer for feasibility study, ground-water monitoring and remediation for major CERCLA site on Long Island.
- Negotiated, and subsequently directed, investigation and remediation of contaminated soils at an industrial property on Long Island.
- Provided technical oversight and review of USEPA contractor performance at a municipally-owned CERCLA site.
- Currently negotiating Remedial Investigation/Feasibility Studies on behalf of two separate industrial clients listed on the New York State Superfund list of inactive hazardous waste sites.
- Provided expert testimony on behalf of an industrial client in relation to alleged discharge permit violations.

#### SELECTED PUBLICATIONS

Barber, A.J., and O.C. Braids, Application of a Portable Organic Vapor Analyzer in Ground-Water Contamination Investigations, "Proceedings of the Second National Symposium on Aquifer Restoration and Ground-Water Rehabilitation," National Water Well Association, Worthington, Ohio, 1982 (paper presented May 27, 1982).



PUBLICATIONS (Cont'd.)

Barber, A.J., Case Histories in Safety Programs for Hazardous Waste Site Investigations, Paper presented to the National Water Well Association, "Aquifer Restoration and Ground-Water Monitoring," Third National Symposium, Columbus, Ohio, May 25-27, 1983.

Lobasso, T. and A.J. Barber, A Monitoring and Removal Plan for Leaked Propane in the Vadose Zone, "Proceedings of Characterization and Monitoring of the Vadose (Unsaturated) Zone," National Well Water Association, Worthington, Ohio (Paper presented December 9, 1982, Las Vegas, Nevada).

Barber, A.J. and B.V. Moran, Health and Safety Considerations for Working with Hazardous Chemical Wastes - A Consultant's Perspective, Paper presented to the American Chemical Society, Twentieth Middle Atlantic Regional Meeting, Baltimore, Maryland (paper presented September 4, 1986).

Barber, A.J., Human Error and Groundwater Sampling, Waste Age, Volume 17, No. 6, pp. 183-184.

Barber, A.J. and R.D. Raskin, Application of a Portable Gas Chromatograph to Subsurface Contamination Investigations, "Proceedings of the First Annual Hazardous Materials Management Conference/Central," Tower Conference Management, Glen Elean, IL, 1988 (paper presented March 15, 1988, Chicago, IL)

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KEVIN J. ORMSBY

Regional Health and Safety Manager

CREDENTIALS/REGISTRATION

Attended Eastern Montana College, 1976-1978  
Hazardous Materials Incident Response Course, U.S. Environmental Protection Agency, January, 1983  
Hazardous Material Response, U. S. Coast Guard, April, 1983  
Respiratory Protection, U.S. Coast Guard, March 1984  
Hazardous Material Spill Control School, National Spill Control School at Corpus Christi State University, April, 1984  
First Responders at Hazardous Materials Incidents, University of California at Davis, June, 1984  
Chemical Firefighting, Texas A&M, August, 1984  
Air Surveillance at Hazardous Materials Incidents, U.S. Environmental Protection Agency, July, 1985

FIELDS OF SPECIALIZATION

- Hazardous waste site remediation
- Site Safety Officer
- Development of site health and safety plans
- Implementation of the Site Safety Plan

EXPERIENCE SUMMARY

Mr. Ormsby was employed by the U.S. Coast Guard from 1979 to 1985. For three years he was a member of the National Strike Team, assigned to the Pacific Strike Team. While on the Strike Team, he was directly involved with oil and hazardous material spills throughout 14 western states, Alaska, Hawaii and the Trust Territories. His involvement included emergency response, planning, and recovery and disposal of the discharged product; response efforts included developing an on-scene organization and directing the efforts of the clean-up contractor.

Prior to joining Geraghty & Miller, Inc. in 1986, Mr. Ormsby was employed by Industrial Clean-up Inc. of Garyville, Louisiana where he was directly involved with hazardous waste remediation at several industrial facilities. His responsibilities included serving as Operations Manager, Health and Safety Officer and Air/Safety Trailer Manager. He was also a member of the safety and inspection team for the Port Authority of New York and New Jersey where he supervised the acquisition of data and sampling for asbestos in Port Authority buildings.

As a Health and Safety Scientist with Geraghty & Miller, Inc., Mr. Ormsby has developed numerous health and safety plans for investigations at potentially hazardous sites. He has also played a key role in the development and organization of Geraghty & Miller's 40-hour health and safety training program.

8/88



## IRENE VERA

Scientist

### CREDENTIALS/REGISTRATION

A.A.S. Medical Technology, Nassau Community College, Garden City, New York, 1983

A.A. Pre-Pharmacy, Valencia Community College, Orlando, Florida, 1981

Electronic Technology Diploma, Grumman Data Systems Institute, Bohemia, New York, 1986

### PROFESSIONAL AFFILIATIONS

Association of Ground-Water Scientists and Engineers (NWWA)

New York State Registry of Medical Technology

### FIELDS OF SPECIALIZATION

- Soil-gas surveys
- Onsite chemical analysis
- Ground-water field investigations
- Field instrumentation
- Health and Safety

### EXPERIENCE SUMMARY

Prior to joining Geraghty & Miller in 1988, Ms. Vera was employed by Photovac, Inc., Huntington, New York. Her responsibilities included in-house service of air monitoring instruments and technical support for clients, ranging from troubleshooting to chemical applications. Ms. Vera has also worked in Private Medical Laboratory as supervisor in the chemistry and Radioimmuno Assay (RIA) departments.

As a Scientist with Geraghty & Miller, Ms. Vera's responsibilities include operating the field Gas Chromatograph for ground-water investigations to characterize the magnitude, extent, and transport of chemical contaminants. Other activities include maintenance of field instruments, miscellaneous electronic repairs, and performance of wet chemical analyses.

### KEY PROJECTS

- Conducted a ground-water survey which was used to successfully locate a previously unknown source of volatile organic contamination in an industrial site in Massachusetts.
- Provided on-site analysis of soil samples from numerous concurrent investigations at a U.S. Department of Energy (DOE) site in Ohio.
- Provided on-site analysis of ground-water samples for an investigation involving the installation of permanent and temporary well points to delineate the lateral and vertical extent of a VOC plume for an industrial site in New Jersey.



IRENE VERA/2

KEY PROJECTS (Continued)

- Conducted a soil-gas survey as part of an overall site assessment for a former sand and gravel mine/asphalt plant prior to sale.
- Conducted a soil-gas survey at a former gasoline station on Long Island to delineate subsurface contamination.
- Provided on-site analysis for a contamination investigation of a spill at medium-sized petroleum transfer terminal.
- Supervised ground-water sampling program at Superfund sites in New York.
- Responsible for QA/QC ground-water sampling at Superfund sites in New York.

3/89



FRANK A. JONES, Ph.D.

Principal Scientist

#### CREDENTIALS/REGISTRATION

Ph.D. Environmental Toxicology, University of Wisconsin, Madison, 1986  
B.S. Biology, Loyola University, Chicago, 1981

#### PROFESSIONAL AFFILIATIONS

Sigma Xi  
Society of Environmental Toxicology and Chemistry  
Society for Risk Analysis  
Association of Ground Water Scientists and Engineers (NWWA)  
American Water Resources Association

#### FIELDS OF SPECIALIZATION

- Endangerment Assessments
  - Public Health Evaluations
  - Environmental Assessments
  - Exposure Assessments
  - Toxicity Profiles
- Determination of risk-based remediation concentrations
- Investigation and evaluation of ground-water contamination
- Hydrologic and solute transport modeling
- Investigation and research on fate and transport of pesticides

#### EXPERIENCE SUMMARY

Prior to joining Geraghty & Miller, Dr. Jones was Toxicologist and Ground Water Specialist for the Wisconsin Department of Agriculture Trade and Consumer Protection. Dr. Jones managed the investigation of ground-water contamination incidents at pesticide storage and handling facilities and conducted research to evaluate the extent of pesticide leaching occurring throughout the state. Dr. Jones was in charge of the review of pesticide toxicity research data and drafted Environmental Impact Statements related to the regulation of leaching pesticides and Material Safety Data Sheets for Toxic Response Team Investigations.

Since joining Geraghty & Miller, Dr. Jones has prepared over 15 Endangerment Assessments or Risk Assessments associated with the threat and/or actual release of hazardous substances (CERCLA) or hazardous wastes (RCRA). Assessment processes have included evaluations of constituent fate and transport, toxicity profiles, exposure pathways, exposed populations, food-chain interactions, and wildlife habitat impacts. These factors were evaluated in assessing the public health and environment risks associated with spills or disposal of fuel-related hydrocarbons, solvents, pesticides, and metals. Dr. Jones has determined risks associated with surface-water discharges and calculated target concentrations or site remediation levels for aqueous or soil exposure routes. Dr. Jones also lectures regularly on the toxic properties of compounds and associated adverse effects for an OSHA-approved Health and Safety Training Course.



#### KEY PROJECTS

- Drafted Environmental Impact Statements associated with pesticide use regulations.
- Developed a method of linking unsaturated and saturated contaminant transport models.
- Developed regulatory strategies for several pesticide use regulations.
- Investigation coordinator for several cases involving ground-water contamination at pesticide storage and handling facilities.
- Developed and evaluated data for a survey of Wisconsin pesticide usage.
- Project Manager of a monitoring project that evaluated the occurrence of pesticides in Wisconsin ground water.

#### SELECTED PUBLICATIONS

- Harkin, J.M., F.A. Jones, R. Fathulla, E.K. Dzantor, E.J. O'Neill, D.G. Droll, G. Chesters, 1984. Pesticides in Ground Water Beneath the Central Sand Plain of Wisconsin. Water Resources Center Tech. Rept. WIS-WRC, 84-01. 46 pp.
- Harkin, J.M., G. Chesters, F.A. Jones, 1985. Health Implications of Aldicarb Residues in Wisconsin Ground Water. Wisconsin Academy Review, Vol. 32, No. 1: 37-40.
- Harkin, J.M., F.A. Jones, R.N. Fathulla, E.K. Dzantor, D.G. Kroll. Fate of Aldicarb in Wisconsin Ground Water. IN: ACS Symposium Series 315, evaluation of Pesticides in Ground Water (Garner, W.Y., R.C. Honeycutt, and H.N. Nigg, Editors) American Chemical Society, Washington, D.C.
- Harkin, J.M., G. Chesters, F.A. Jones, R.N. Fathulla, E.K. Dzantor, D.G. Kroll, 1986. Fate of Aldicarb in Wisconsin Ground Water. Water Resources Center Tech. Rept. WIS-WRC, 84-01. 49 pp.
- Jones, F.A., J.K. Postle, 1986. Ground-Water Monitoring Project for Pesticides. Progress Report - Wisconsin Department of Agriculture Trade and Consumer Protection. 11 pp.
- Environmental Impact Statement for Proposed Rules Relating to Special Restrictions on the Use of Pesticides Containing Aldicarb, 1987. Wisconsin Department of Agriculture Trade and Consumer Protection. 129 pp.
- Jones, F.A., 1987. Computer Simulation of Aldicarb Migration and Degradation in the Sand Plain of Central Wisconsin. Ph.D. Thesis, University of Wisconsin, Madison, WI.

SELECTED PUBLICATIONS (Cont'd.)

Jones, F.A., 1987. Pesticide Use Survey. Proceedings of the 1987 Fertilizer, Aglime and Pest Management Conference. Vol. 26: 294-296.

Jones, F.A., G. Chesters, and J.M. Harkin, 1987. A Site Specific Predictive Method for Regulating Leachable Pesticides. Proceedings of the Eastern Regional Ground Water Issues: A Conference. National Water Well Association, July 14-16, 1987.

9/88



GISELLA M. SPREIZER

Senior Scientist and  
Statistician

CREDENTIALS/REGISTRATION

M.A. Applied Mathematics, Hofstra University, Hempstead, NY 1987  
B.S. Chemistry, Hofstra University, Hempstead, NY 1984

PROFESSIONAL AFFILIATIONS

American Chemical Society  
Mathematical Association of America  
Association of Ground Water Scientists and Engineers (NWWA)  
New York Academy of Sciences  
American Society for Testing and Materials (ASTM). Member of ASTM  
subcommittee on Design and Analysis of Hydrogeologic data systems

FIELDS OF SPECIALIZATION

- Evaluation of water quality and geochemical data
- Selection and implementation of appropriate statistical methods for monitoring data

EXPERIENCE SUMMARY

Ms. Spreizer joined Geraghty & Miller, Inc. in 1984 as a member of a team providing technical support in connection with studies of ground-water contamination at Rocky Mountain Arsenal in Colorado. This work involved researching historical and technical records, and interpreting chemical information. She has validated monitoring data employing CLP-type protocols, and has developed and used computer programs for the statistical analysis of the data as required by Federal and State hazardous waste programs. She has also evaluated and developed alternative statistical models for use in RCRA and Superfund compliance monitoring. Ms. Spreizer has collected and evaluated chemical information from the literature and computer data bases related to industrial processes in support of ground-water investigations. The data collected include information on the reactivity and mobility of contaminants in the environment, and the reliability of laboratory analyses performed during investigations.

KEY PROJECTS

- Preparation of technical reports as part of a litigation support effort for a major environmental lawsuit.
- Co-author of a guidance manual to aid RCRA permit writers with the selection of effective monitoring parameters.
- Evaluation and presentation of water quality and geochemical data.
- Validation and evaluation of monitoring data collected from sites on Long Island.

KEY PROJECTS (Cont'd.)

- Statistical analysis of monitoring data collected from RCRA facilities

SELECTED PUBLICATIONS

Saar, R.A., and G.M. Spreizer, Guidance Manual for the Selection of Chemical Parameters at Hazardous Waste Facilities, Draft, Prepared for the Land Disposal Branch, Office of Solid Waste, U.S. Environmental Protection Agency, Washington, D.C., 1985.

Spreizer, G.M. Assessing the Probability Distribution of Ground-Water Monitoring Data. Presented at ASTM Standards Development for Ground Water Monitoring, Tampa, FL, January 20, 1987.

Braids, O.C., Ph.D. Shkuda, G.K., Ph.D., and G.M. Spreizer, Technical Issues of Ground Water Data. Presented at ASCE Symposium on the Detection, Control and Renovation of Contaminant Groundwater, Atlantic City, NJ, (in publication) April 1987.

Frangos, N., and G.M. Spreizer, Ground-Water Monitoring and Regression Analysis (Testing for Normality), Presented at Statistical Society of Canada, 1987 Annual Meeting, Quebec, Canada, June 1987.

Spreizer, G.M., RCRA Statistics: A Consultant's View, Presented at ASTM Workshop on Standards Developed for Ground-Water and Vadose Zone Monitoring Investigations, Minneapolis, MN, September 1987.

Spreizer, G.M., Maxim, D., Valkenburg, N., and M. Hauptmann, How Flat is Flat? Termination of Remedial Ground-Water Pumping. Presented at ASTM Symposium on Standards Development for Ground-Water and Vadose Zones Monitoring Investigations, Albuquerque, NM (in publication), January 1988.

7/88



JAMES O. RUMBAUGH, III

Principal Scientist  
and Associate

CREDENTIALS/REGISTRATION

M.S. Geology, The Pennsylvania State University, 1983  
B.A., Geology, Susquehanna University, 1980, Honors  
Registered Professional Geologist: South Carolina No. 438

PROFESSIONAL AFFILIATION

Association of Ground Water Scientists and Engineers (NWWA)

FIELDS OF SPECIALIZATION

- Numerical simulation of ground-water flow and solute transport
- Modeling of multiphase and variably-saturated flow
- Aquifer test analyses
- Surface geophysical methods

EXPERIENCE SUMMARY

Prior to joining Geraghty & Miller, Inc., Mr. Rumbaugh was employed by GeoTrans, Inc., as a senior hydrogeologist. While at GeoTrans he was principal investigator and project manager for a diversity of projects ranging from three-dimensional ground water flow and transport modeling to surface geophysical investigations. His responsibilities included project administration, direction of site-specific model investigations, and software development.

Mr. Rumbaugh joined the firm in 1987, when the Geraghty & Miller Modeling Group was established. He has worked to develop techniques to increase modeling efficiency and accuracy. He has extensive experience in the practical application of quantitative techniques to the solution of ground-water problems. His responsibilities include project management, quantitative analysis, and preparation of technical reports.

KEY PROJECTS

Project Manager for a three-dimensional ground-water flow and solute transport model of a coastal plain aquifer in California. The project goal was to assess remedial alternatives at the site of a gasoline spill.

Unsaturated flow modeling at a gasoline spill site in California. The model was used to assess remedial alternatives in a perched aquifer.

Project Manager for a flow and transport model in the Great Miami River Valley, Ohio. The model was used to assess contaminant fate and transport in the glacial aquifer system.

Project Manager for an unsaturated flow and transport modeling project at the Savannah River Plant. The SATURN model was used to assess the appropriateness of using simpler models at the site.

Designed and implemented a geophysical monitoring system at a landfill in Montgomery County, Maryland. Electromagnetic and resistivity measurements are made at two-month intervals around the landfill perimeter. The geophysical data supplement the existing ground-water monitoring program.

Project Manager of a field investigation to assess the degree of ground-water contamination at a site in Pennsylvania. The project involved the use of geophysical methods to delineate fracture zones in the bedrock aquifer and the design and installation of a electronic transducer network for detailed water-level measurement. The goal was to determine whether site ground-water contamination posed a threat to a nearby public water-supply well.

#### MODEL DEVELOPMENT

GREMLIN. Performs nonlinear least square inverse analysis of resistivity and electromagnetic soundings. Developed with G. M. Duffield. Derives parameters in a layered-earth model from sounding data.

SEFTRAN. Codeveloper of SEFTRAN model (two-dimensional finite-element ground-water flow and solute transport) with P. S. Huyakorn, B. H. Lester, D. S. Ward, and others.

SWANFLOW. Codeveloper of the SWANFLOW model (three-dimensional water, air, and nonaqueous phase flow) with C. R. Faust.

FEEST. Inverse two-dimensional model which can be used in areal, cross-sectional, or radial configurations to automatically calibrate a steady-state or transient flow model. Codeveloper with G. Duffield.

#### SELECTED PUBLICATIONS

Rumbaugh, J. O., J. R. Pepper, P. C. Lowe, and J. F. Villaume, 1984. Evaluation of ground-water monitoring wells and sampling techniques, Proceedings of the NWWA Technology Division Eastern Regional Conference, NWWA, Boston, MA.

Rumbaugh, J. O., and R. R. Parizek, 1983. Effect of fracture permeability on radon-22 concentration in ground water of the Reading Prong, PA, Abstracts with Programs, G.S.A. National Meeting, Indianapolis, IN.

Rumbaugh, J. O., J. A. Caldwell and S. T. Shaw, 1987. A geophysical monitoring program for a sanitary landfill, implementation and preliminary analysis, Proceedings of the First National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods, paper accepted for May 21, 1987.

Cohen, R. M., R. R. Rabold, Faust, J. O. Rumbaugh, and J. Bridge, 1987. Investigation and hydraulic containment of chemical migration at four landfills in Niagara Falls, New York, Civil Engineering Practice, the Journal of the BSCE (in press).



JUDITH A. MILLER

Coordinator - Environmental  
and Business Communications

CREDENTIALS/REGISTRATION

M.A. Spanish, Middlebury College, 1983  
B.A. Political Science, Colby College, 1982

FIELDS OF SPECIALIZATION

- Community relations
- Public affairs
- Business communications

EXPERIENCE SUMMARY

Ms. Miller is Coordinator of Environmental and Business Communications at Geraghty & Miller's Plainview, New York office. Prior to joining Geraghty & Miller, Ms. Miller was employed by The Tribeca Corporation of New York, where she acted as coordinator of the firm's public relations activities. While with Tribeca, she initiated and developed special events and fundraisers and was responsible for the company's media relations.

While with Geraghty & Miller, Ms. Miller co-founded the firm's Environmental Communications Service. As Coordinator of the group, she is charged with policy development, communications planning and implementation, and project administration. Ms. Miller is also responsible for newsletter writing, press release writing and media relations as well as investor relations, and other in-house communications activities.

Ms. Miller has written in-house guidance documents for community relations planning and other public relations activities.

KEY PROJECTS

- Researched and wrote citizens participation plan on an inactive hazardous waste site for submission to the New York State Department of Environmental Protection.
- Edited and reviewed community relations plan for western industrial facility.
- Assisted in the development of a comprehensive communications program for a midwest Department of Energy facility.
- Edited fact sheets about residential ground-water sampling for distribution to the public as part of an overall community relations strategy.
- Wrote and edited press releases for investor relations.





JUDITH A. MILLER/2

KEY PROJECTS (Continued)

- Wrote articles for industry newsletter on RCRA and Superfund activities.
- Production editor and contributing writer to in-house newsletter.
- Developed and wrote marketing brochures for company service groups.

6/89

APPENDIX G  
SOIL GAS SURVEY GRIDS



DRAFTER: W.H. CIGIO

APPROVED: D. COLTON

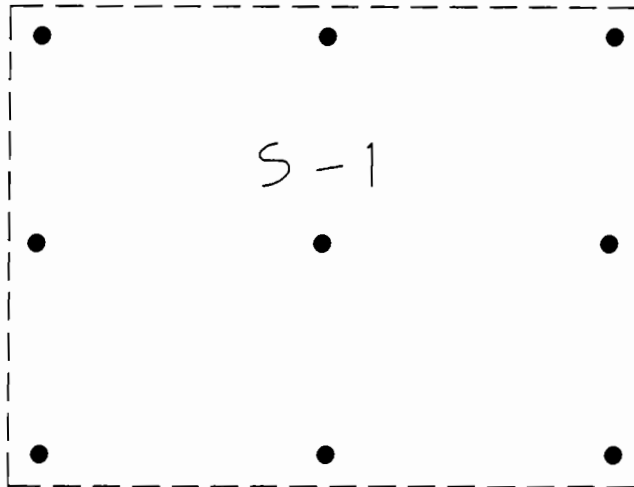
CHECKED: D.V.S.

CAD FILE: SO-S1

FILE NO.: 990

PRJCT. NO.: NY04805

DWG. DATE: 27NOV80



0  30 FT



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

## SOIL-GAS GRID: AREA S-1

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-1



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

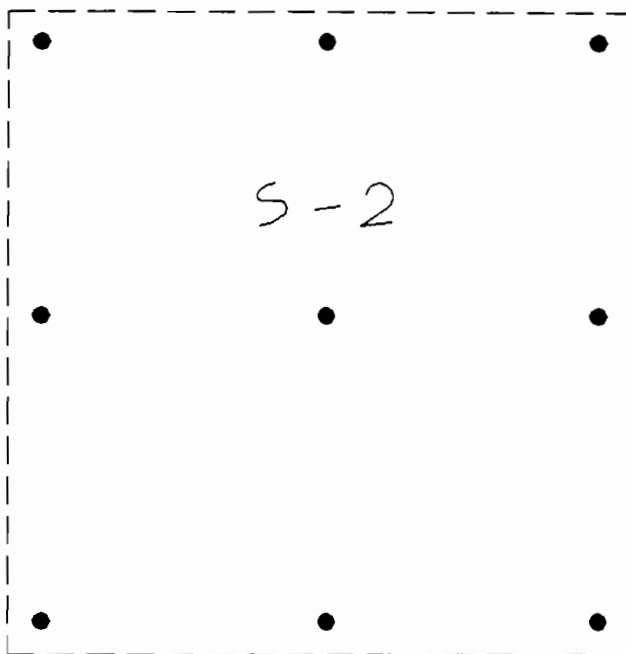
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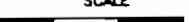
CAD FILE: SG-S2

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

SOIL-GAS GRID: AREA S-2

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-2**



ROAD "H"

S-3

11D

11C

11B

11A

ROAD "B"

0  40 FT



GERAGHTY  
& MILLER, INC.  
Environmental Services

SOIL-GAS GRID: AREA S-3

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-3

DRAFTER: W.H. CICIO

APPROVED: D. COLTON

CHECKED: D.V.S.

CAD FILE: SG-S3

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 02DEC90



DRAFTER: W.H. GICIO

APPROVED: D. COLTON

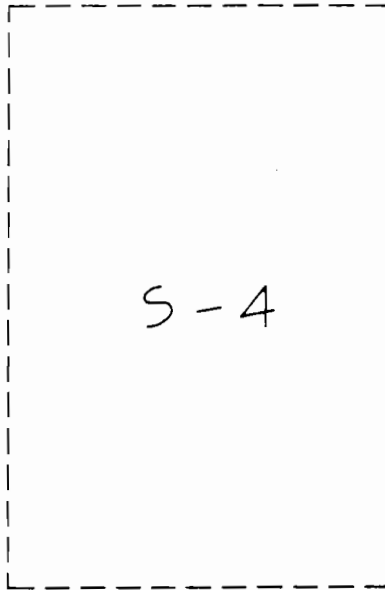
CHECKED: D.V.S.

CAD FILE: SO-S4

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



S-4

SCALE  
0 10 FT



GERAGHTY  
& MILLER, INC.  
*Environmental Services*

SOIL-GAS GRID: AREA S-4

MALTA ROCKET FUEL SITE  
SUPERFUND SITE

FIGURE

G-4



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

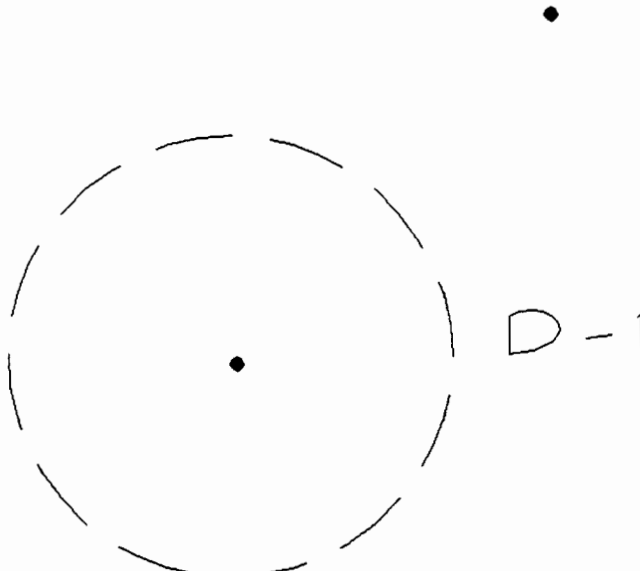
CHECKED: D.V.S.

CAD FILE: SG-D1

FILE NO.: 990

PRJCT. NO.: NY04805

DWG. DATE: 27NOV90



SCALE  
0 10 FT



GERAGHTY  
& MILLER, INC.  
*Environmental Services*

SOIL-GAS GRID: AREA D-1

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-5



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

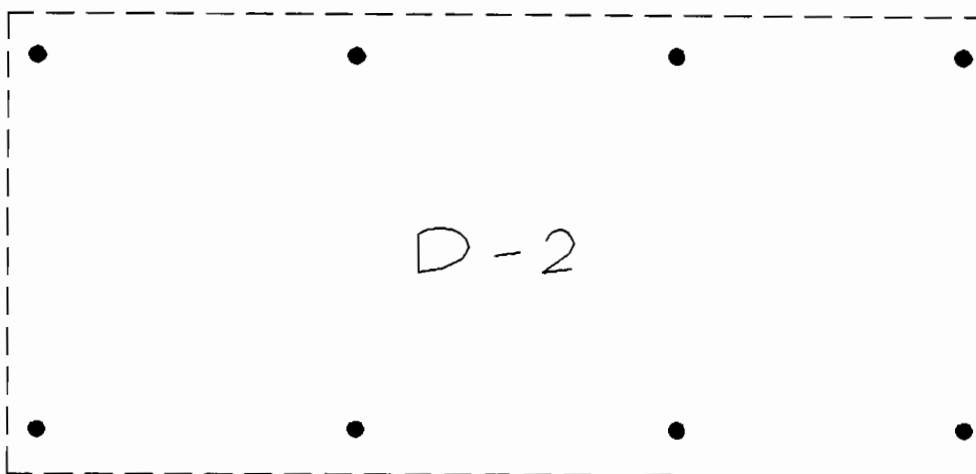
CHECKED: D.V.S.

CAD FILE: SC-D2

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

## SOIL-GAS GRID: AREA D-2

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

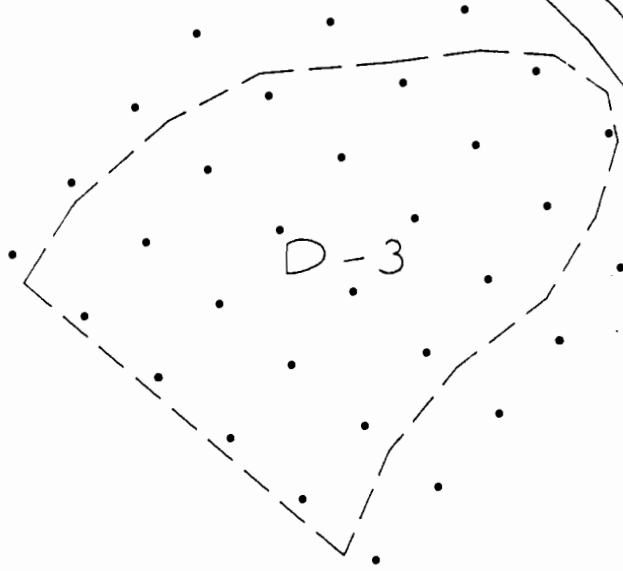
**G-6**





DWG. DATE: 02DEC90 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: SG-D3 | CHECKED: D.V.S. | APPROVED: D. COLTON | P. - 1 - W.H. CIGIO

MALTA TEST STATION BOUNDARY



0  200 FT



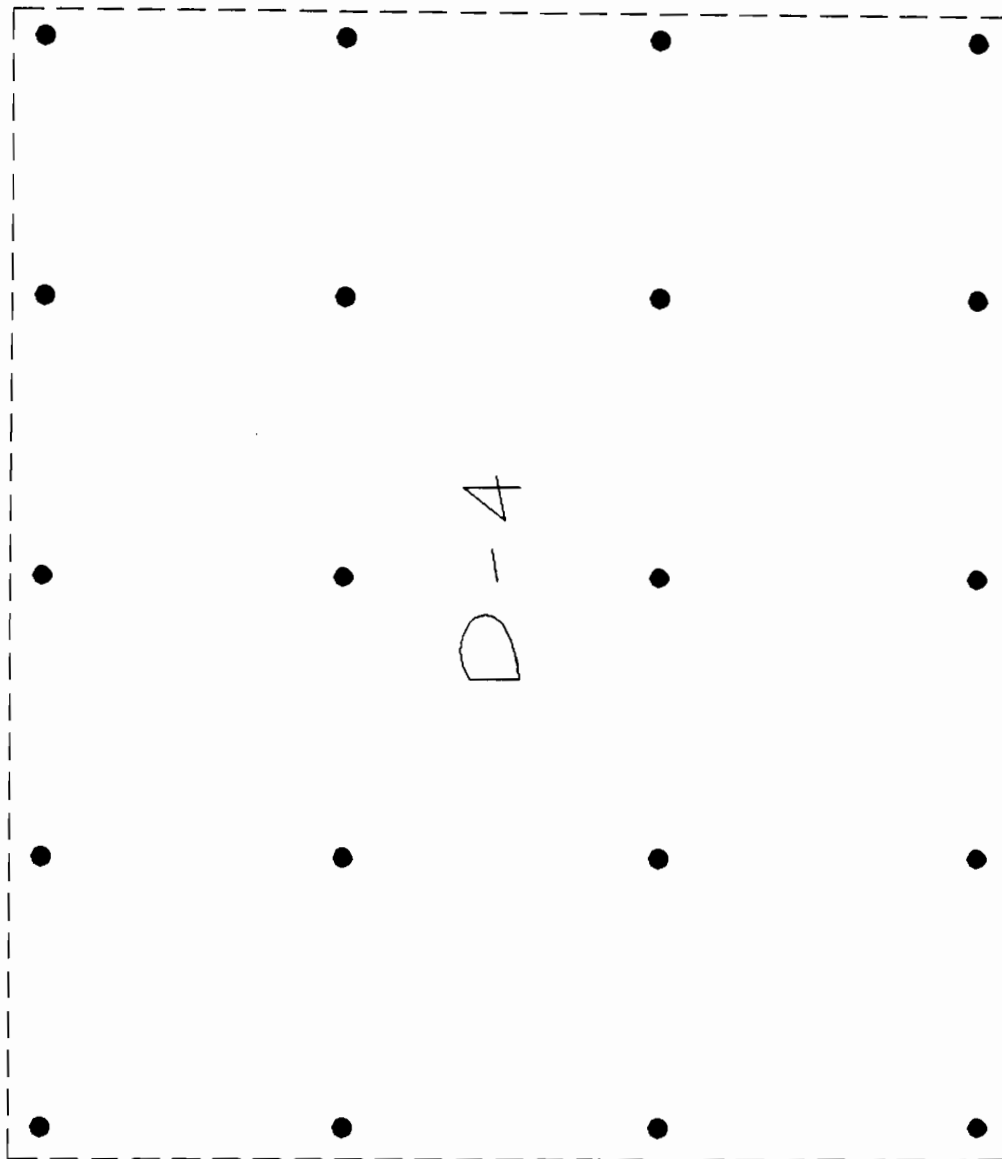
SOIL-GAS GRID: AREA D-3

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-7

DWG. DATE: 27NOV80 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: SG-D4 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



FIGURE

G-8

SOIL-GAS GRID: AREA D-4

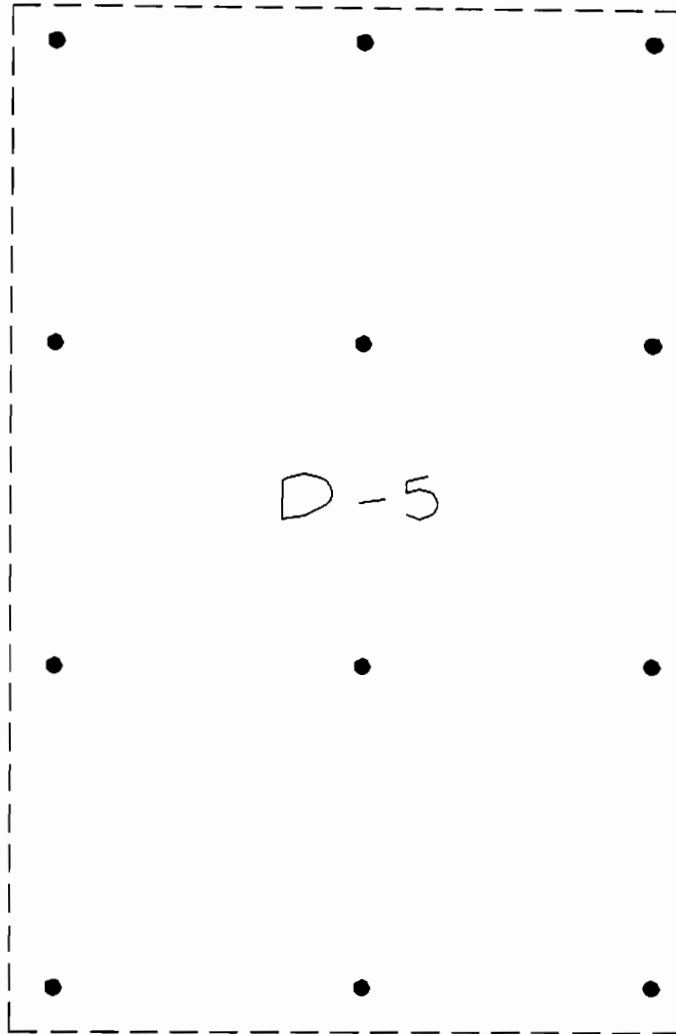
MALTA ROCKET FUEL AREA  
SUPERFUND SITE

SCALE  
0 40 FT





DWG. DATE: 27NOV80 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: SG-D5 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



FIRE LANE

0  30 FT



SOIL-GAS GRID: AREA D-5

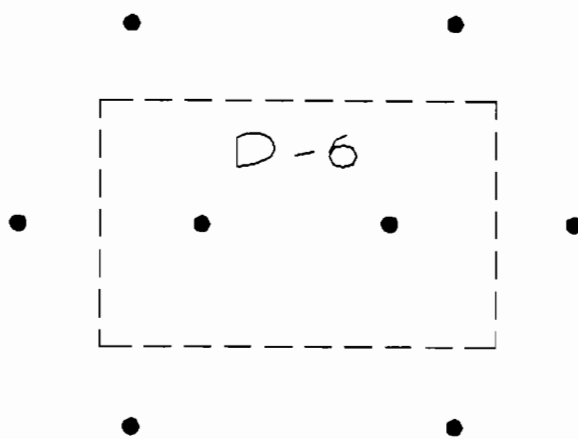
MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-9



DWG. DATE: 27NOV90 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: SC-D6 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



0  30 FT



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**SOIL-GAS GRID: AREA D-6**

MALTA ROCKET FUEL SITE  
SUPERFUND SITE

FIGURE

**G-10**



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

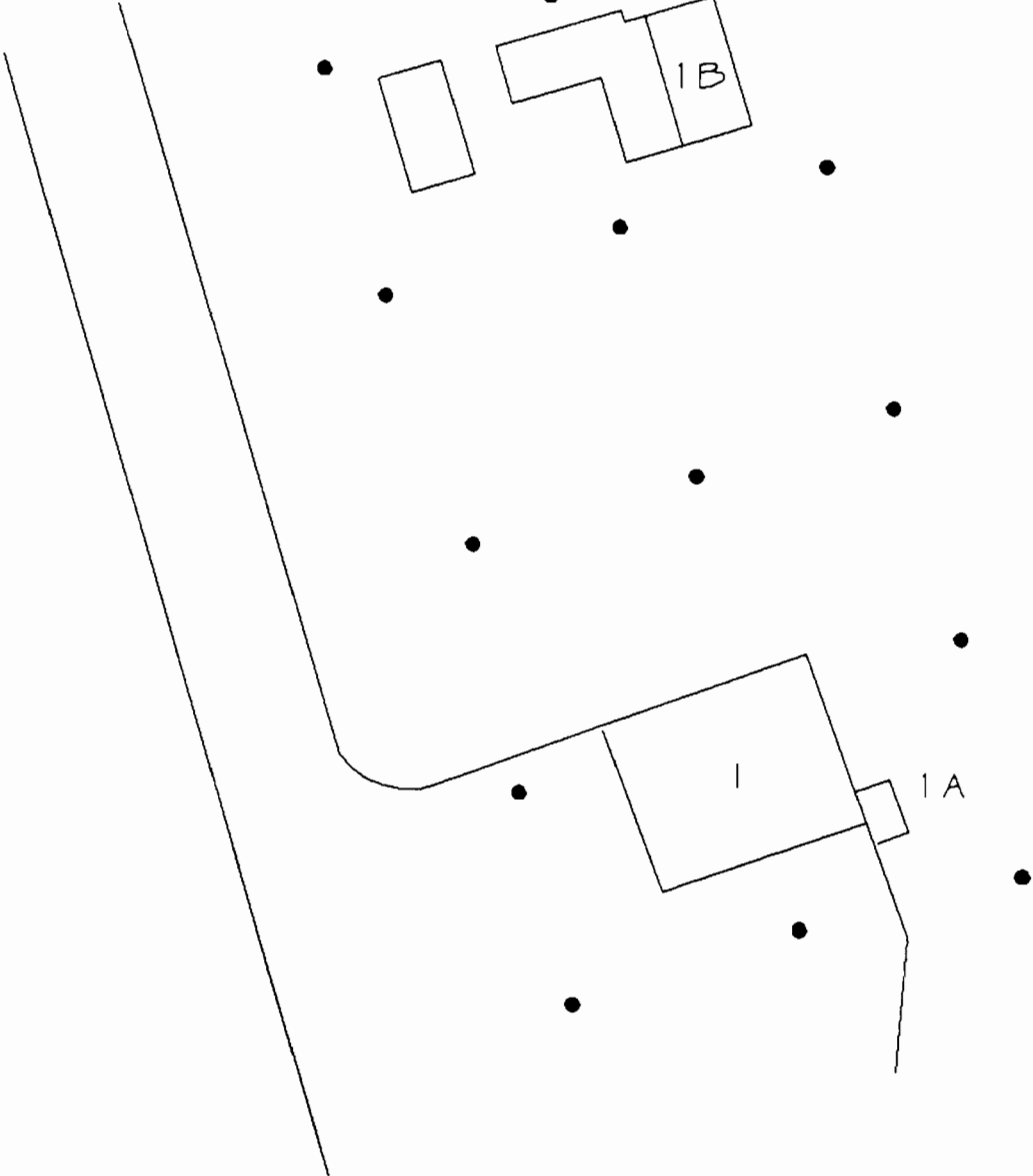
CHECKED: D.V.S.

CAD FILE: SG-TS1

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 02DEC90



0 SCALE 40 FT



### SOIL-GAS GRID: TEST STRUCTURE 1

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-11



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

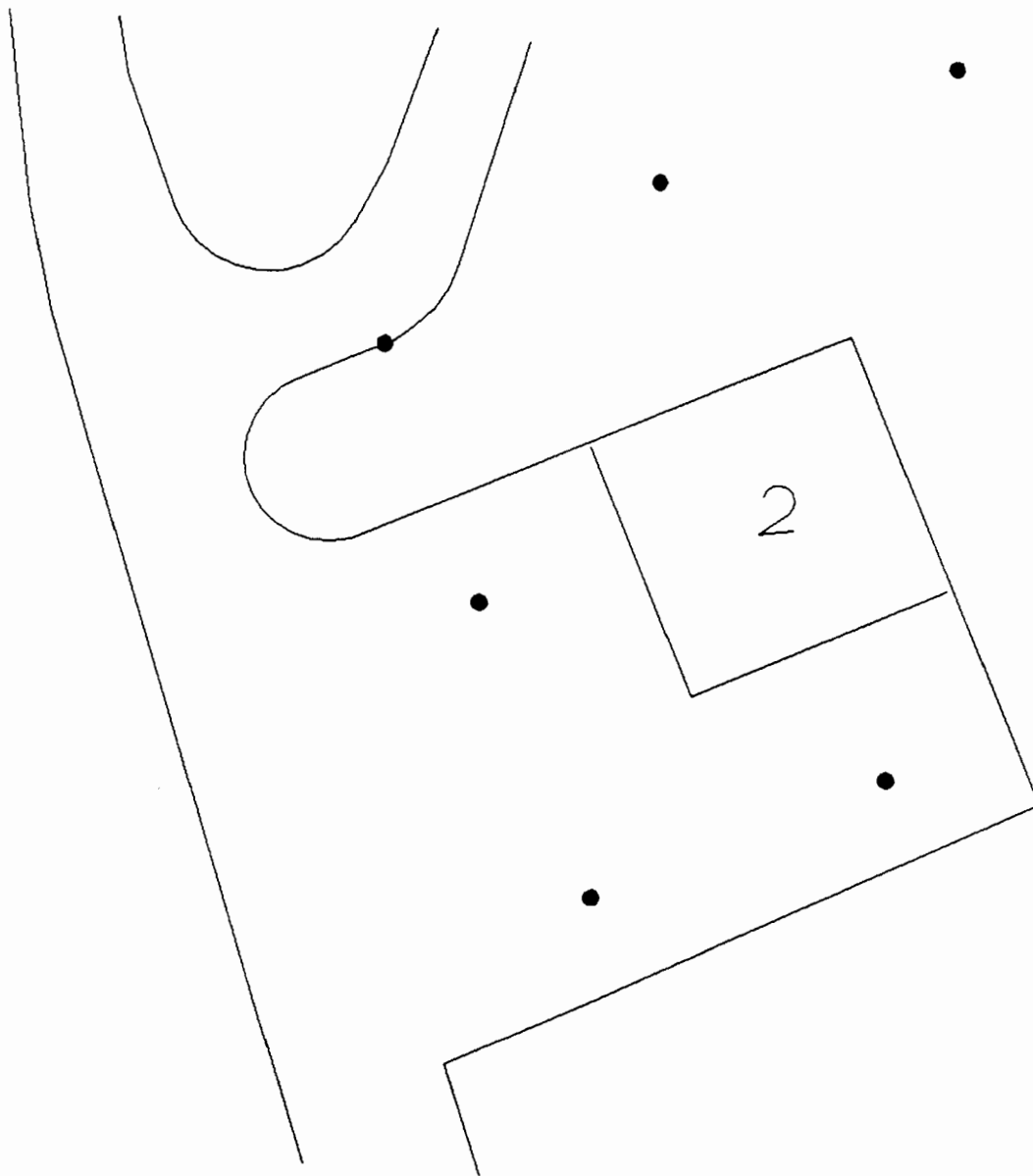
CHECKED: D.V.S.

CAD FILE: SG-2

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



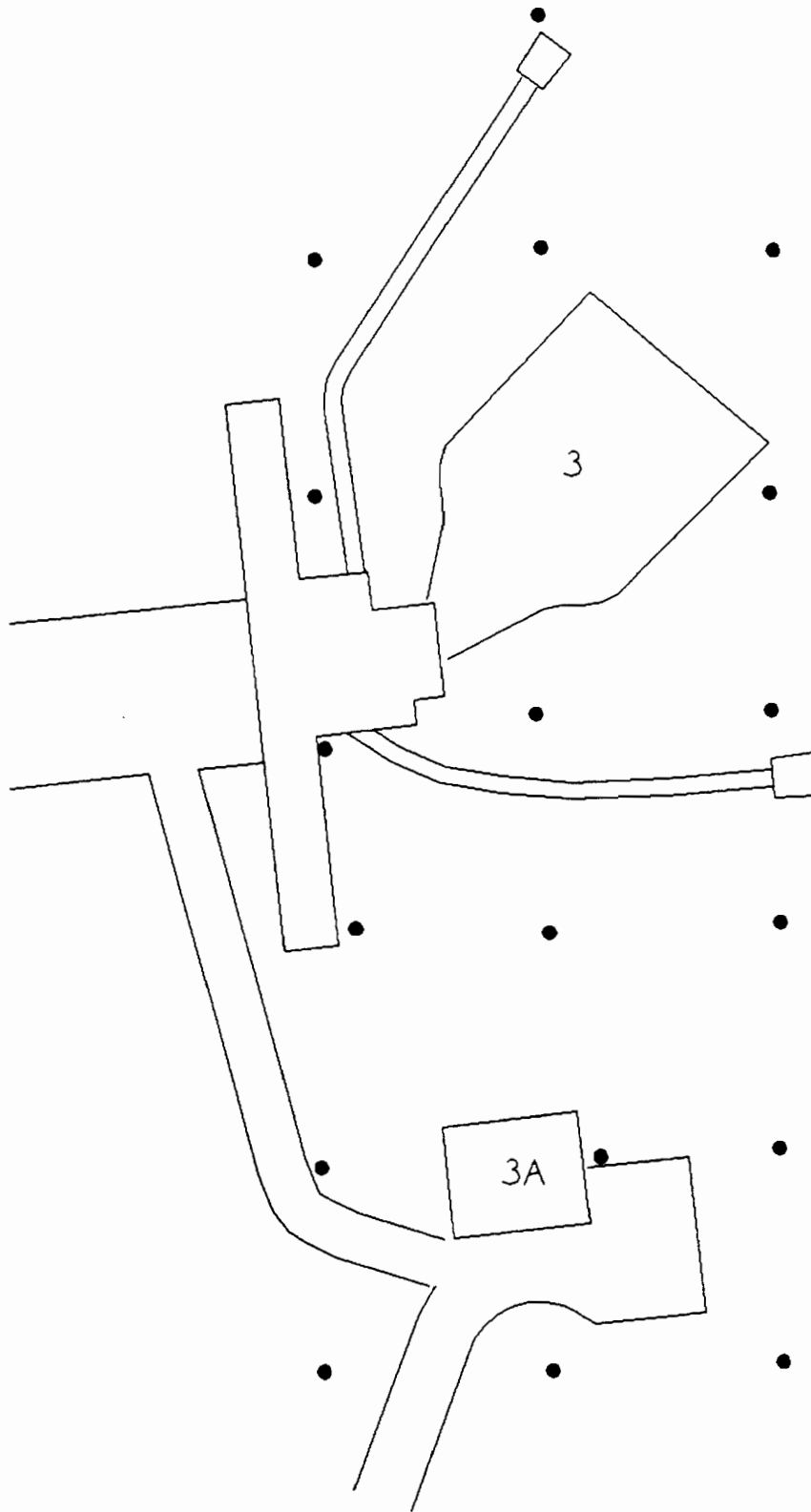
GERAGHTY  
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*Environmental Services*

## SOIL-GAS GRID: TEST STRUCTURE 2

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-12



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

CHECKED: D.V.S.

CAD FILE: SG-TS3

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 02DEC90

0  40 FT

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SOIL-GAS GRID: TEST STRUCTURE 3

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-13**

DRAFTER: W.H. CICIO

APPROVED: D. COLTON

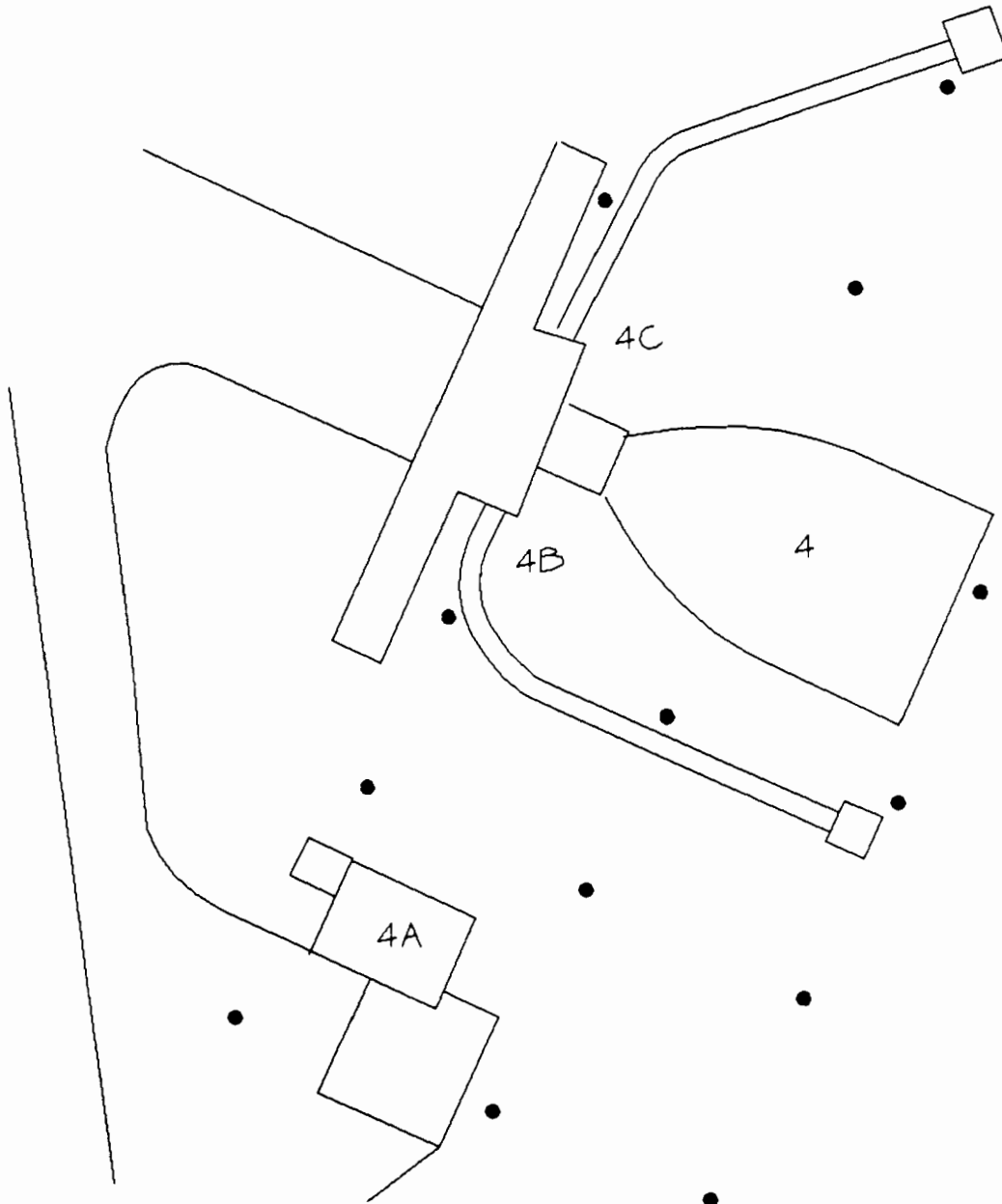
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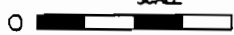
CAD FILE: SG-TS4

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 02DEC90



0  40 FT



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## SOIL-GAS GRID: TEST STRUCTURE 4

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-14**



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

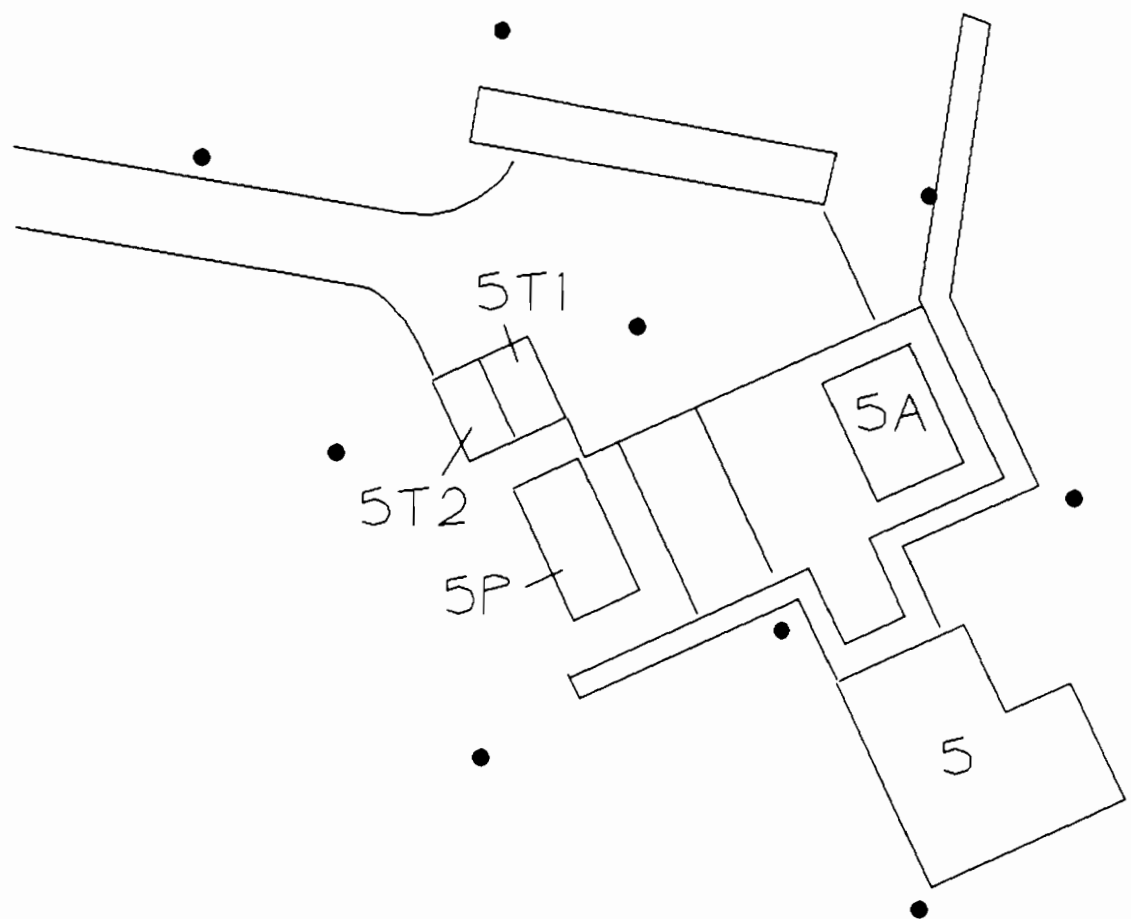
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CAD FILE: SG-5

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT

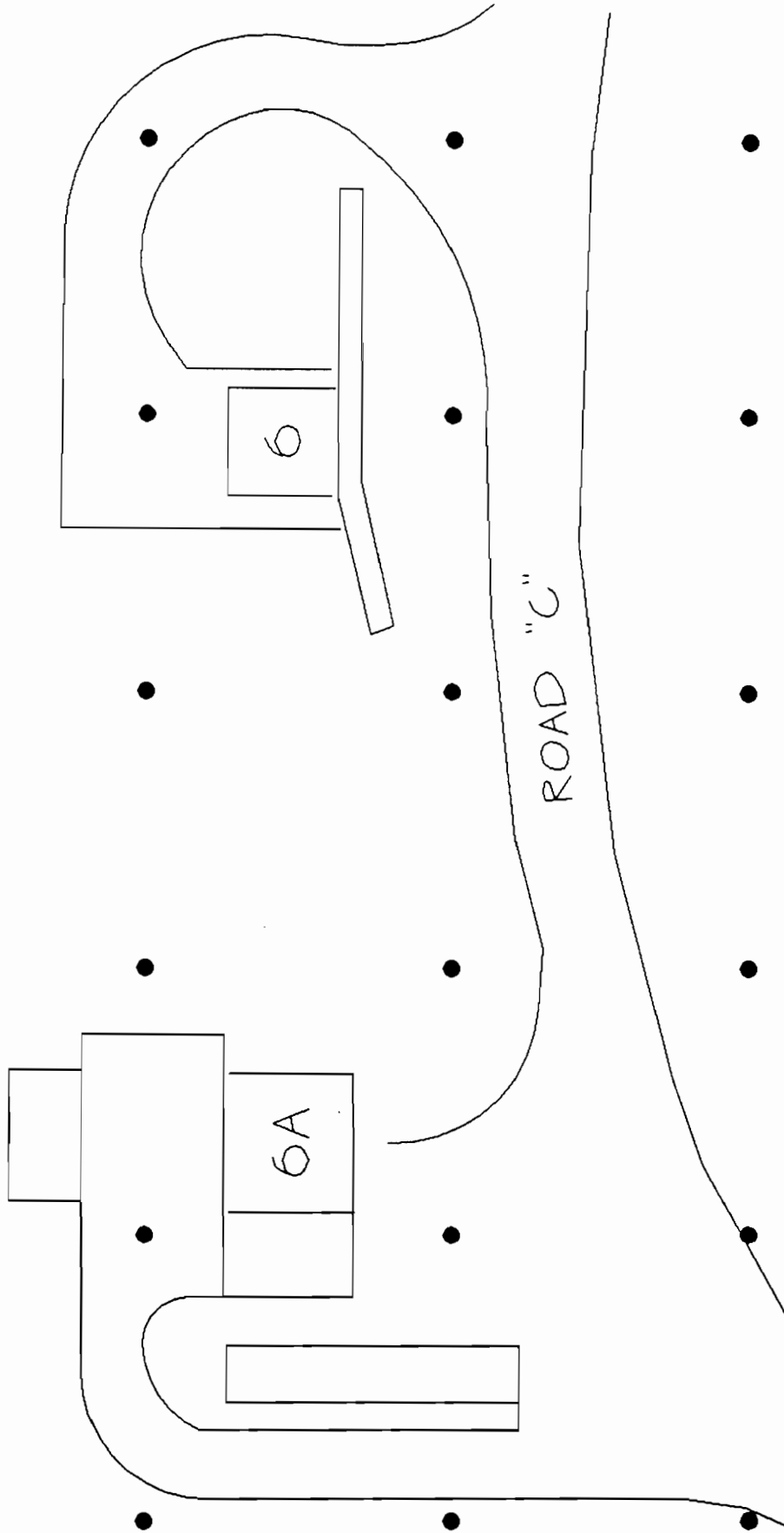


### SOIL-GAS GRID: BUILDING 5

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE  
**G-15**

FIRE LANE



SCALE  
 0 40 FT

**GERAGHTY & MILLER, INC.**  
*Environmental Services*

SOIL-GAS GRID: BUILDING 6

MALTA ROCKET FUEL AREA  
 SUPERFUND SITE

FIGURE

G-16



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

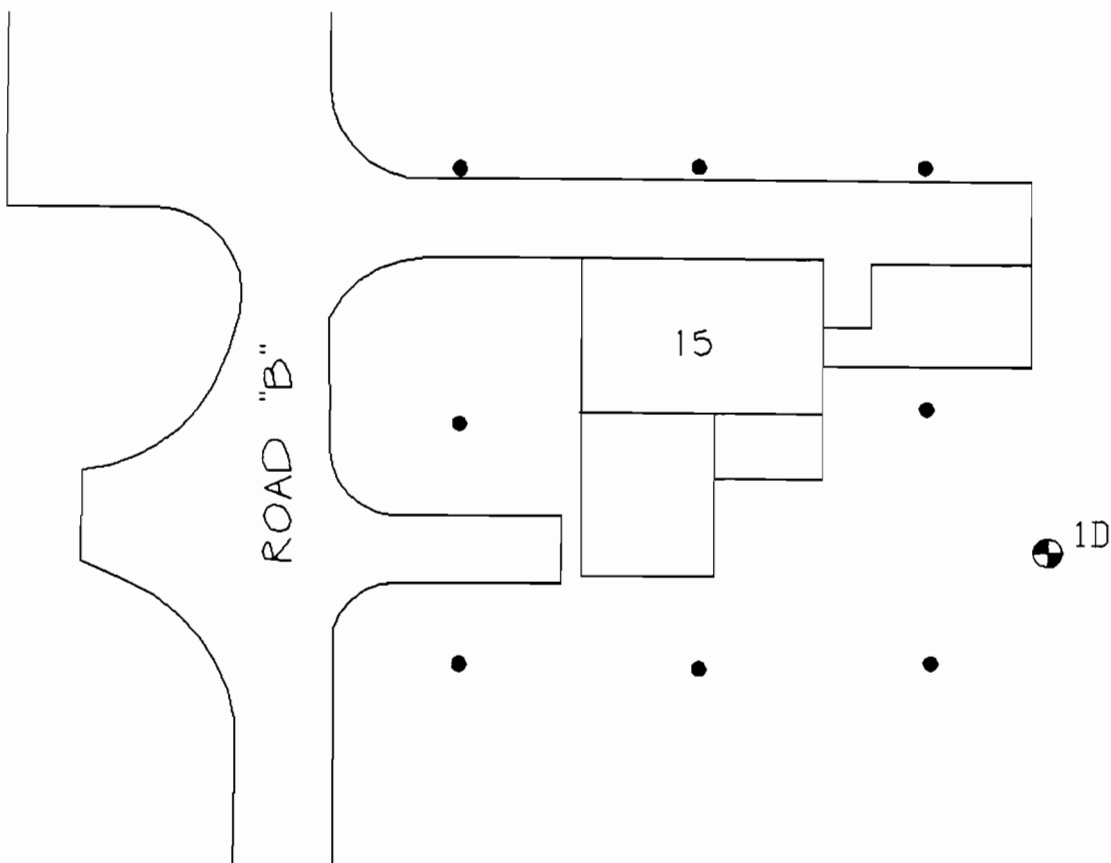
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CAD FILE: SG-15

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 02DEC80



0  40 FT



**GERAGHTY  
& MILLER, INC.**  
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SOIL-GAS GRID: BUILDING 15

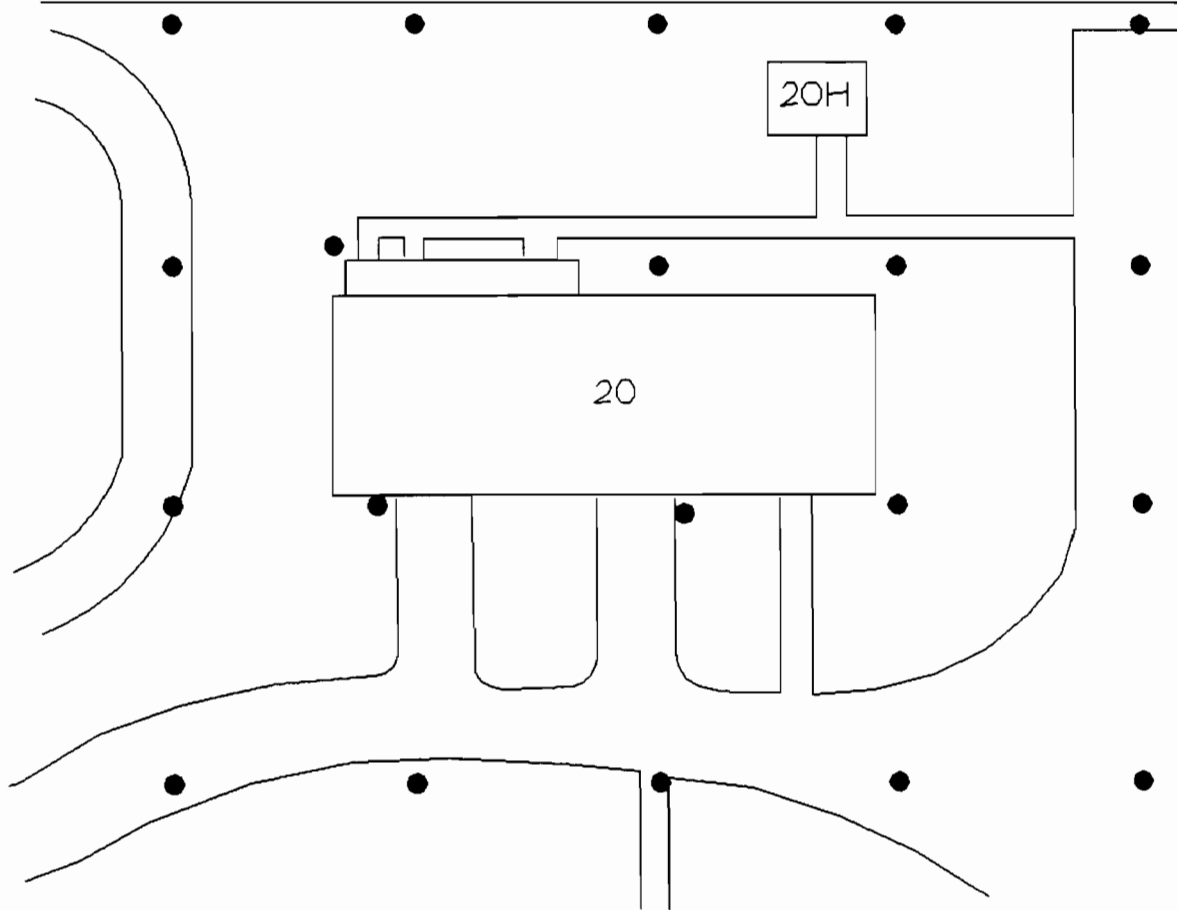
MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-17**



FIRE LANE



0 SCALE 40 FT



GERAGHTY  
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## SOIL-GAS GRID: BUILDING 20

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-18

DWG. DATE: 27NOV90

PRJCT. NO.: NY04605

FILE NO.: 990

CAD FILE: SG-20

CHECKED: D.V.S.

APPROVED: D. COLTON

DRAFTER: W.H. CICIO

DRAFTER: W.H. CICIO

APPROVED: D. COLTON

CHECKED: D.V.S.

CAD FILE: SG-21

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



ROAD "F"

21

ROAD "K"

0  30 FT



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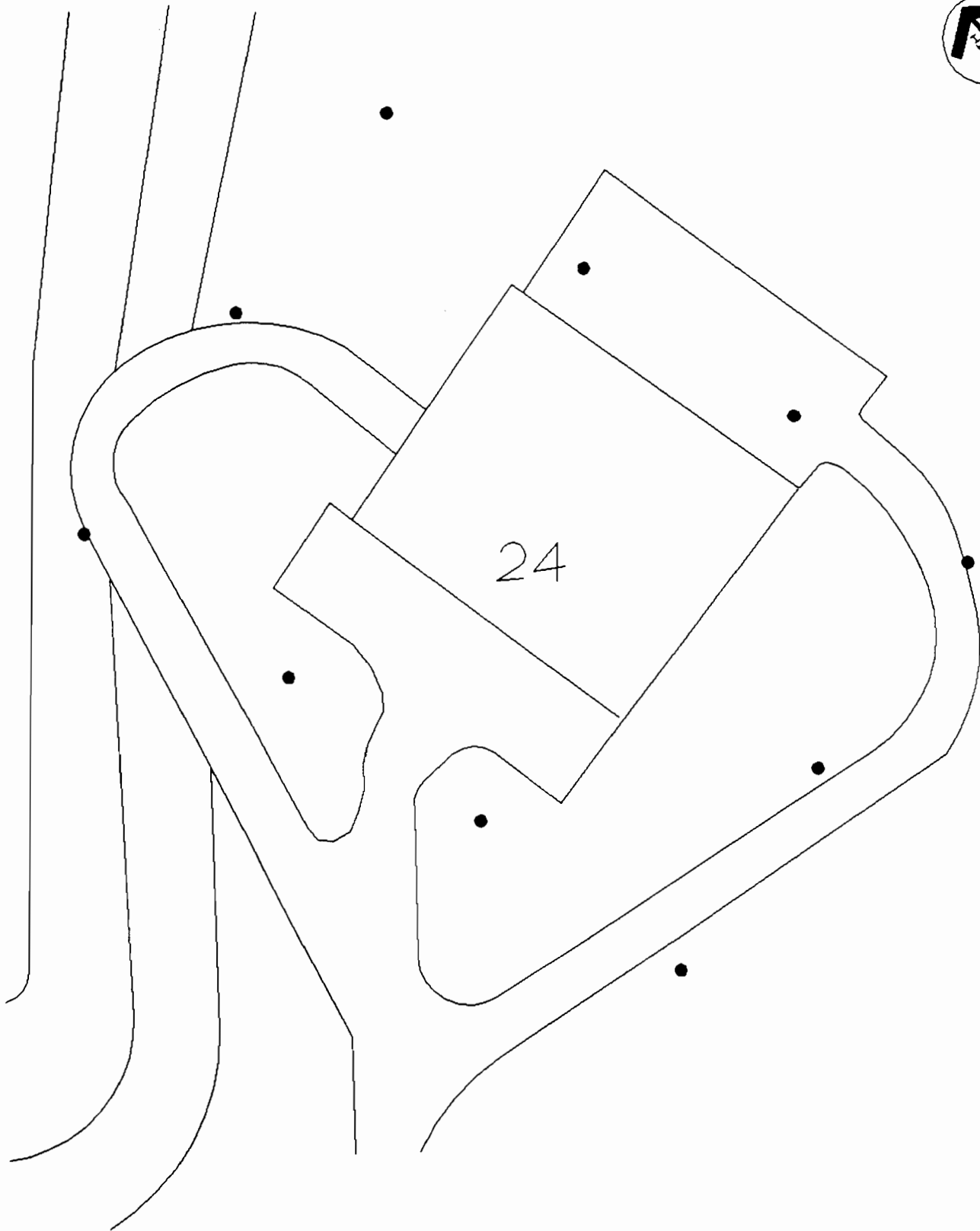
SOIL-GAS GRID: BUILDING 21

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-19

DWG. DATE: 27NOV80 | PRJCT. NO.: NY04605 | FILE NO.: 980 | CAD FILE: SC-24 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



0  30 FT

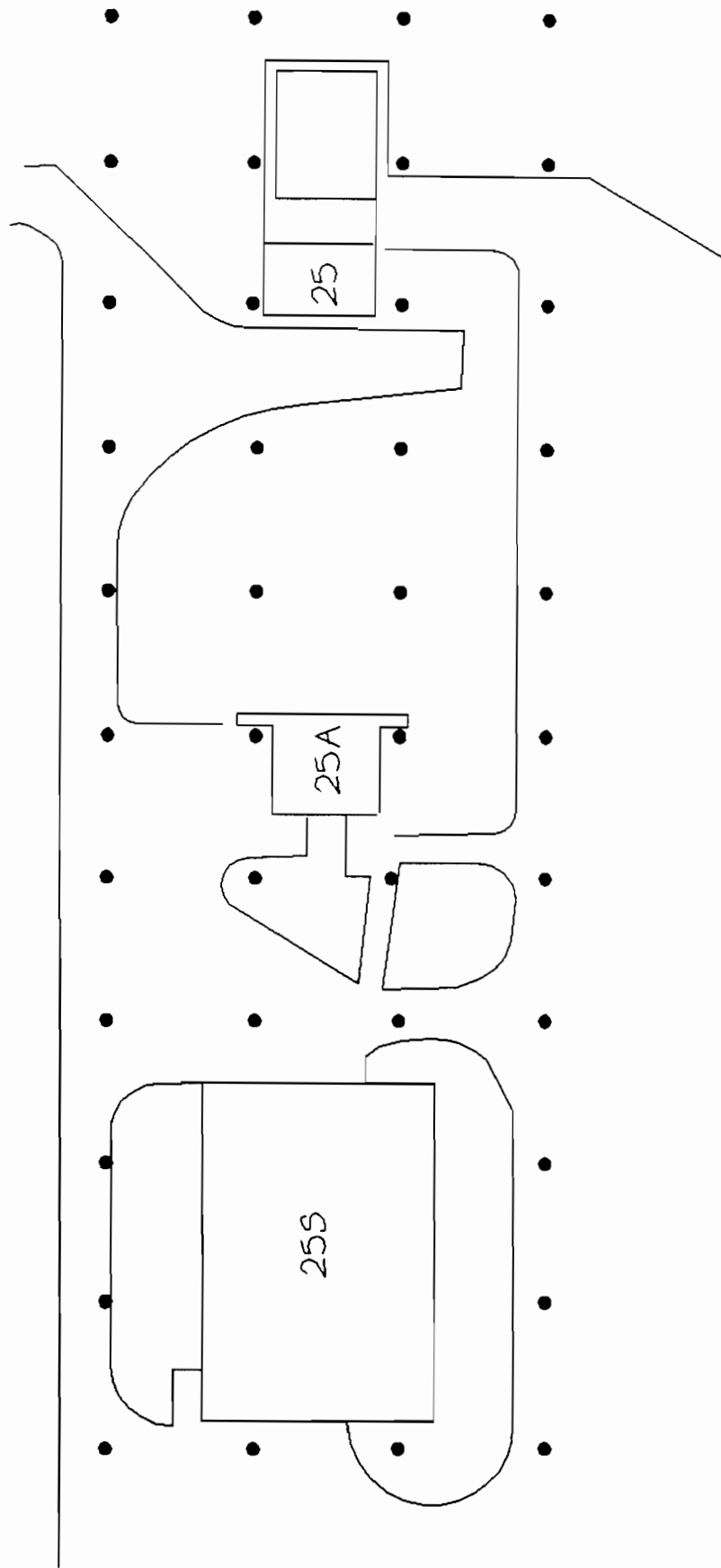


### SOIL-GAS GRID: BUILDING 24

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-20



SCALE  
 0 60 FT

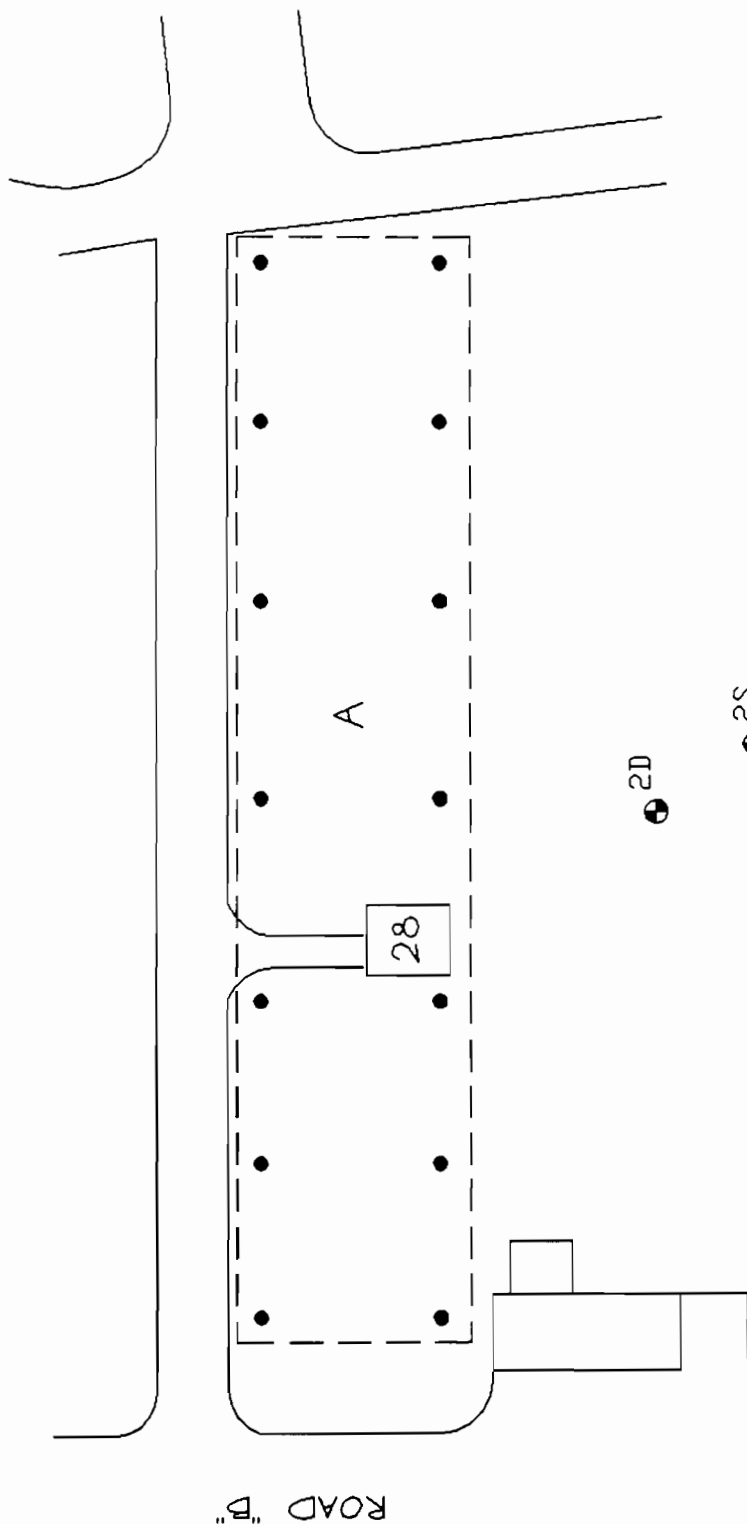


## SOIL-GAS GRID: BUILDING 25

MALTA ROCKET FUEL AREA  
 SUPERFUND SITE

FIGURE

G-21



SCALE  
 0 50 FT



# SOIL-GAS GRID: AREA A

MALTA ROCKET FUEL AREA  
 SUPERFUND SITE

FIGURE

G-22





DRAFTER: W.H. CICIO

APPROVED: D. COLTON

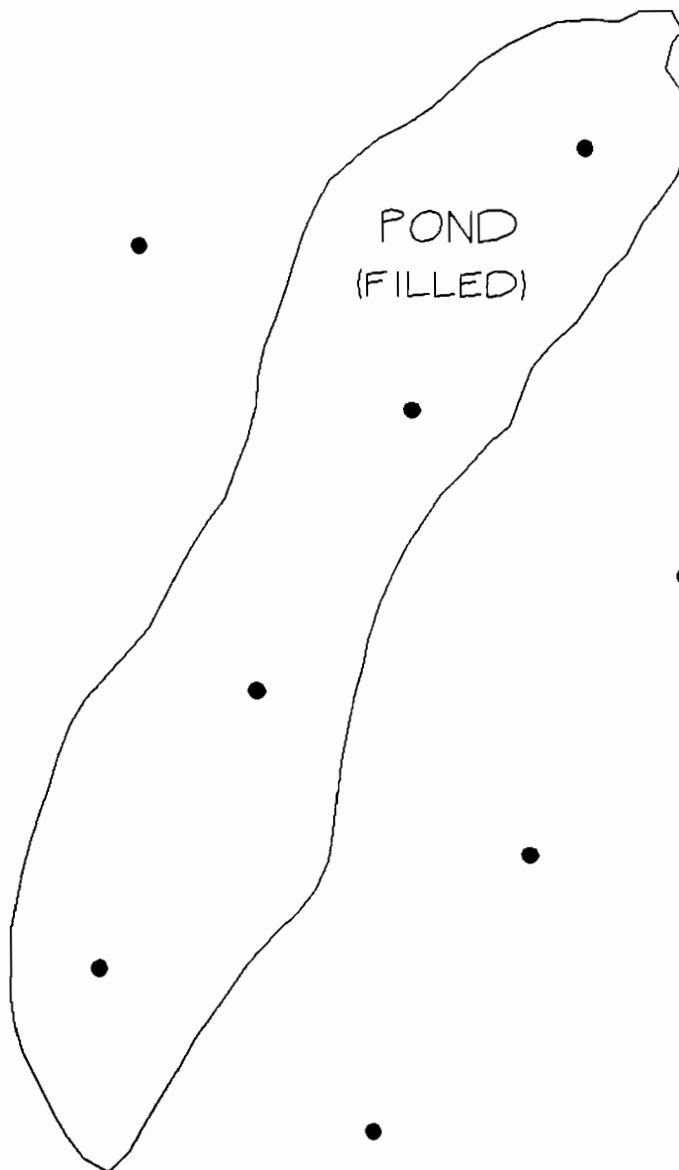
CHECKED: D.V.S.

CAD FILE: SG-6

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

**SOIL-GAS GRID:  
FILLED-IN POND NEAR BUILDING 6**

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-23**



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

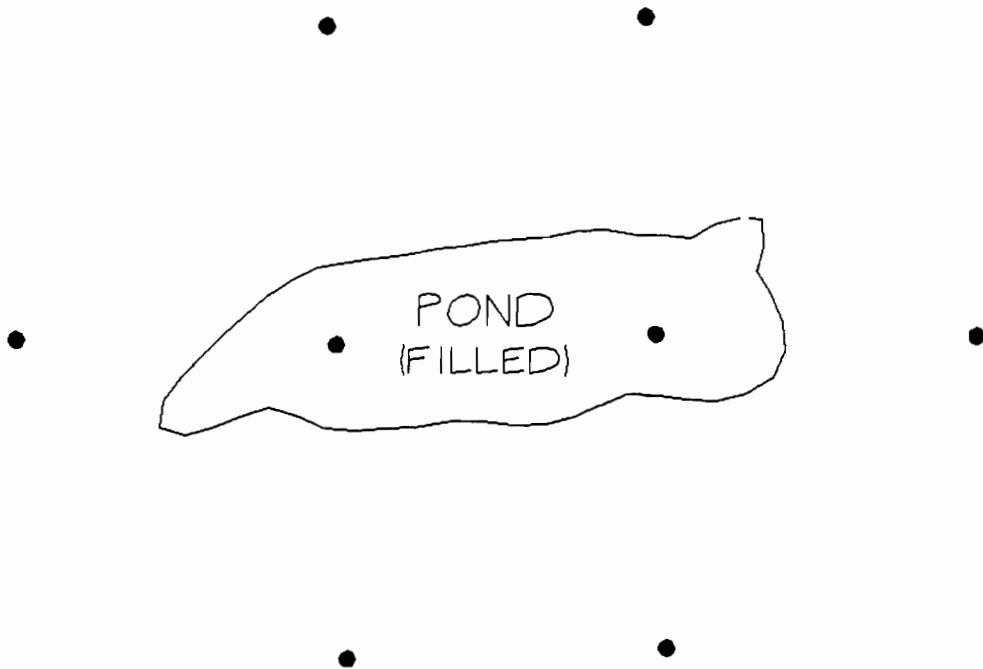
CHECKED: D.V.S.

CAD FILE: SG-7

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



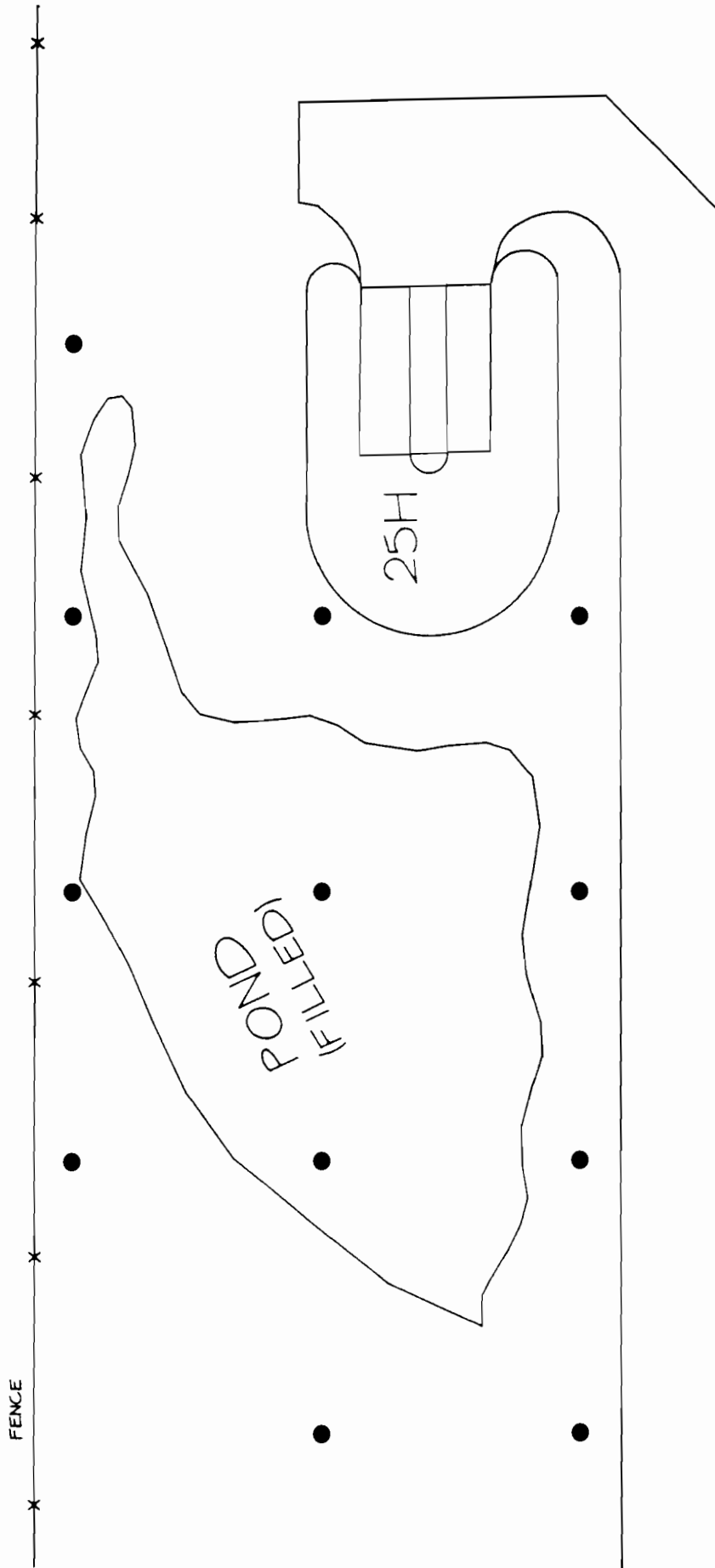
GERAGHTY  
& MILLER, INC.  
*Environmental Services*

SOIL-GAS GRID:  
FILLED-IN POND NEAR BUILDING 7

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-24



SCALE 0 40 FT



SOIL-GAS GRID: FILLED-IN POND AT PTI

MALTA ROCKET FUEL SITE  
SUPERFUND SITE

FIGURE

G-25

DRAFTER: W.H. CICIO

APPROVED: D. COLTON

CHECKED: D.V.S.

CAD FILE: SG-MAG

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV80



FENCE

ROAD "A"

POND  
(FILLED IN)

0 SCALE 10 FT



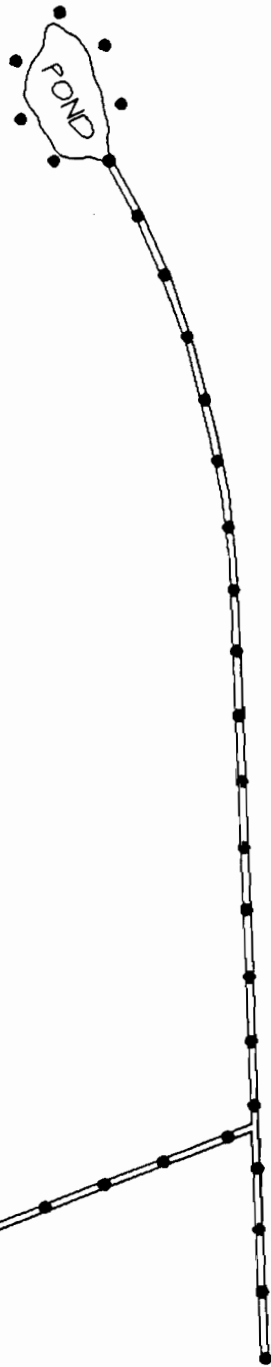
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Environmental Services

SOIL-GAS GRID: FILLED-IN POND  
NEAR MAGAZINE AREA

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

G-26



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

CHECKED: D.V.S.

CAD FILE: SG-DITCH

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 02DEC90

SCALE  
0 150 FT



**GERAGHTY  
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**SOIL-GAS GRID: EXISTING POND AND  
DRAINAGE DITCH**

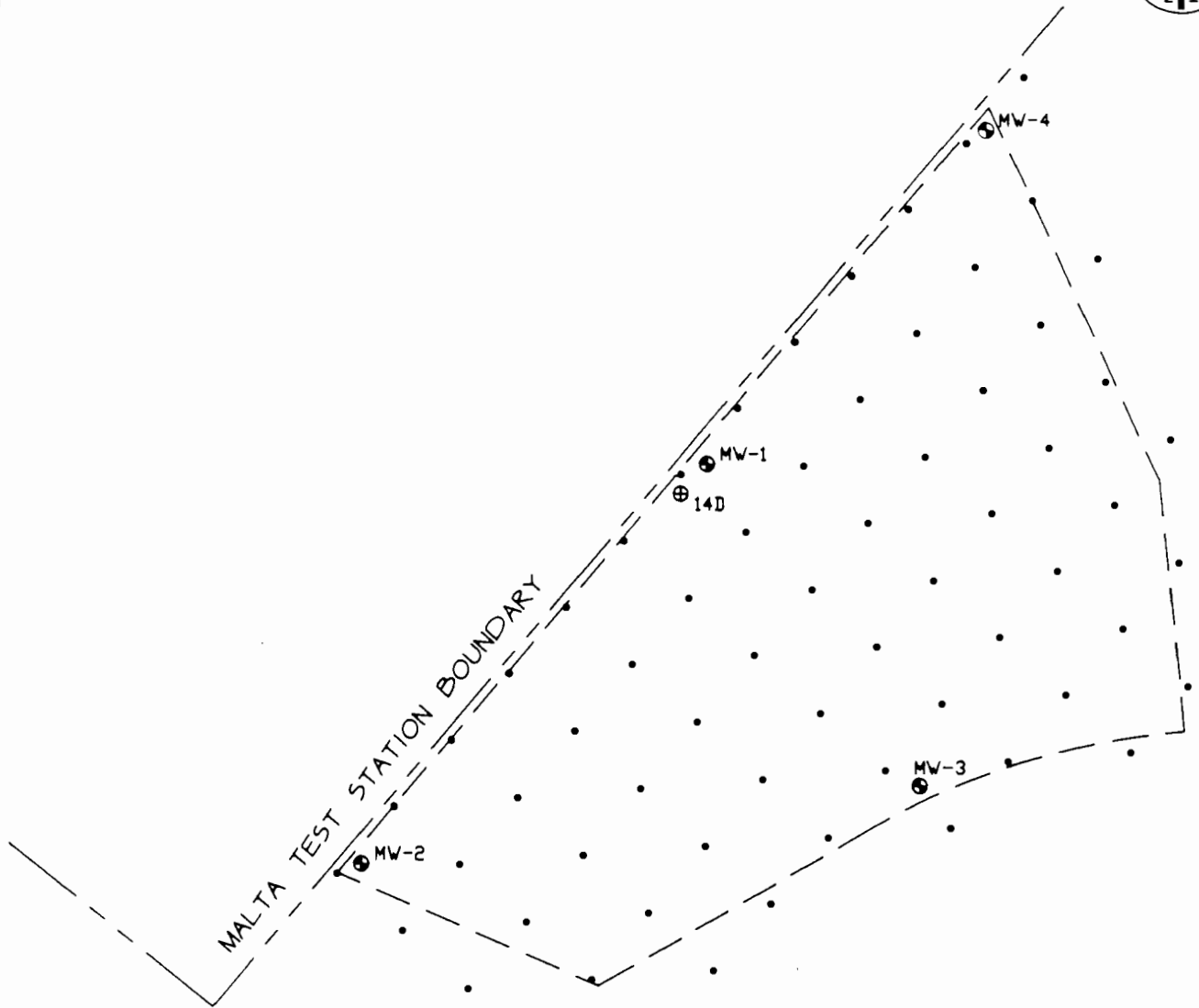
MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-27**



DWG. DATE: 02DEC90 | PRJCT. NO.: NY04605 | FILE NO.: 1208 | CAD FILE: SG-TRI | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CIGO



SCALE  
0 200 FT



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

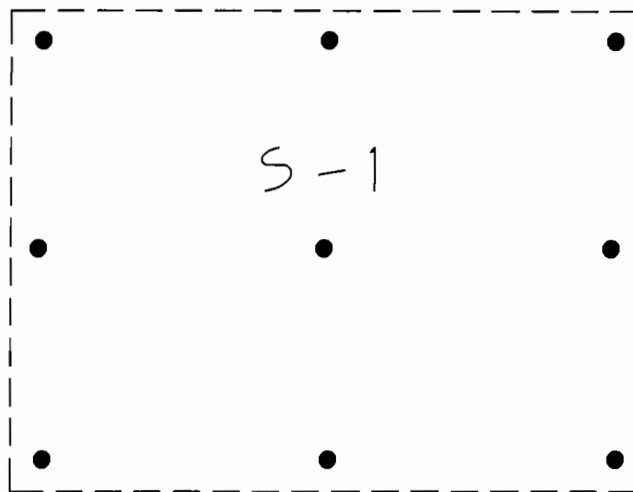
**SOIL-GAS GRID: TRIANGULAR PARCEL  
SOUTHWEST CORNER OF TEST STATION**

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**G-28**

APPENDIX H  
GEOPHYSICAL SURVEY GRIDS



DWG. DATE: 27NOV90

PRJCT. NO.: NY04605

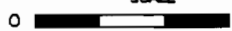
FILE NO.: 990

CAD FILE: GEO-S1

CHECKED: D.V.S.

APPROVED: D. COLTON

DRAFTER: W.H. CICIO

0  30 FT



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

## GEOPHYSICAL SURVEY GRID: AREA S-1

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**H-1**





DRAFTER: W.H. CICIO

APPROVED: D. COLTON

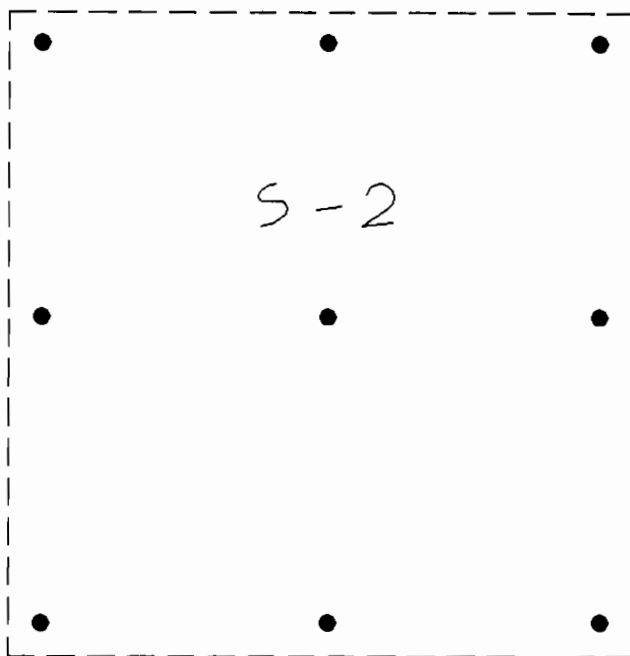
CHECKED: D.V.S.

CAD FILE: GEO-S2

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



FIRE LANE

SCALE  
0 30 FT



GERAGHTY  
& MILLER, INC.  
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GEOPHYSICAL SURVEY GRID: AREA S-2

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

H-2



ROAD "H"

S-3

11D

11C

11B

11A

ROAD "B"

0  40 FT



GEOPHYSICAL SURVEY GRID: AREA S-3

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE  
H-3

DWG. DATE: 02DEC90 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: GEO-S3 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

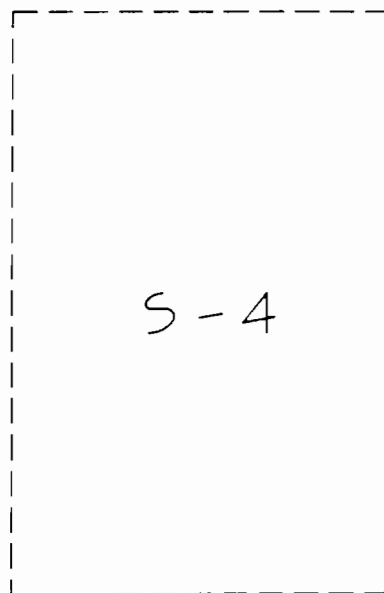
CHECKED: D.V.S.

CAD FILE: GEO-S4

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



SCALE  
0 10 FT



GERAGHTY  
& MILLER, INC.  
*Environmental Services*

GEOPHYSICAL SURVEY GRID: AREA S-4

MALTA ROCKET FUEL SITE  
SUPERFUND SITE

FIGURE

H-4



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

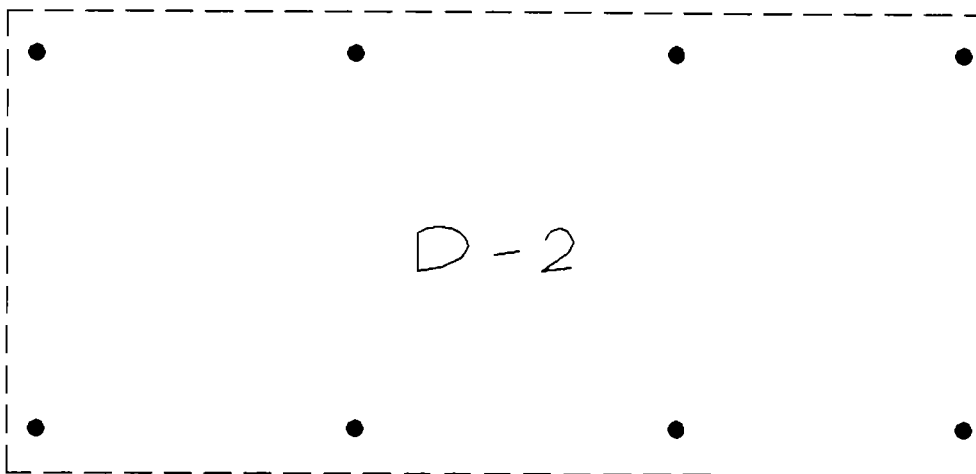
CHECKED: D.V.S.

CAD FILE: GEO-D2

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



GERAGHTY  
& MILLER, INC.  
*Environmental Services*

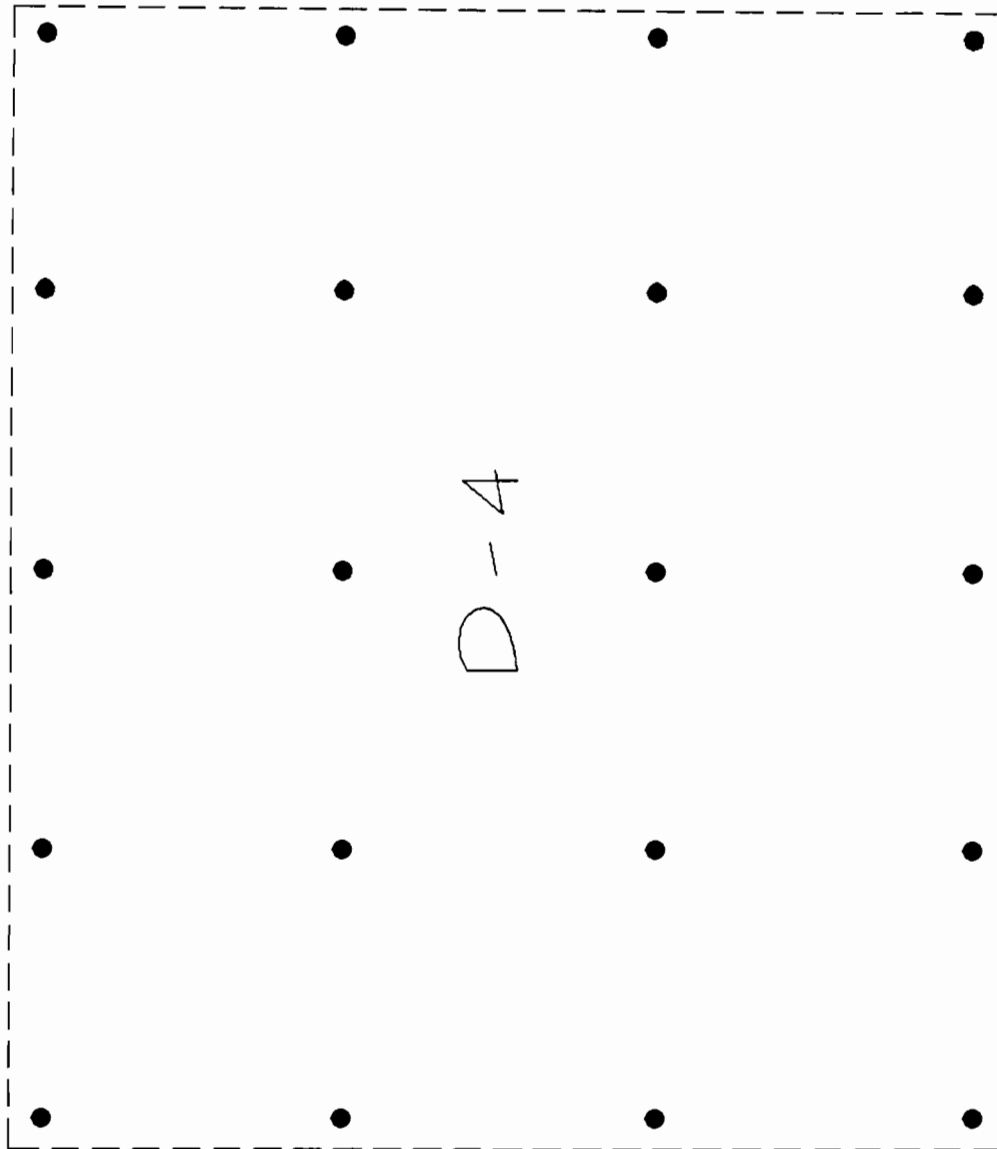
GEOPHYSICAL SURVEY GRID: AREA D-2

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

H-5

DWG. DATE: 27NOV90 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: GEO-D4 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



SCALE  
0 40 FT



GEOPHYSICAL SURVEY GRID: AREA D-4

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

H-6



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

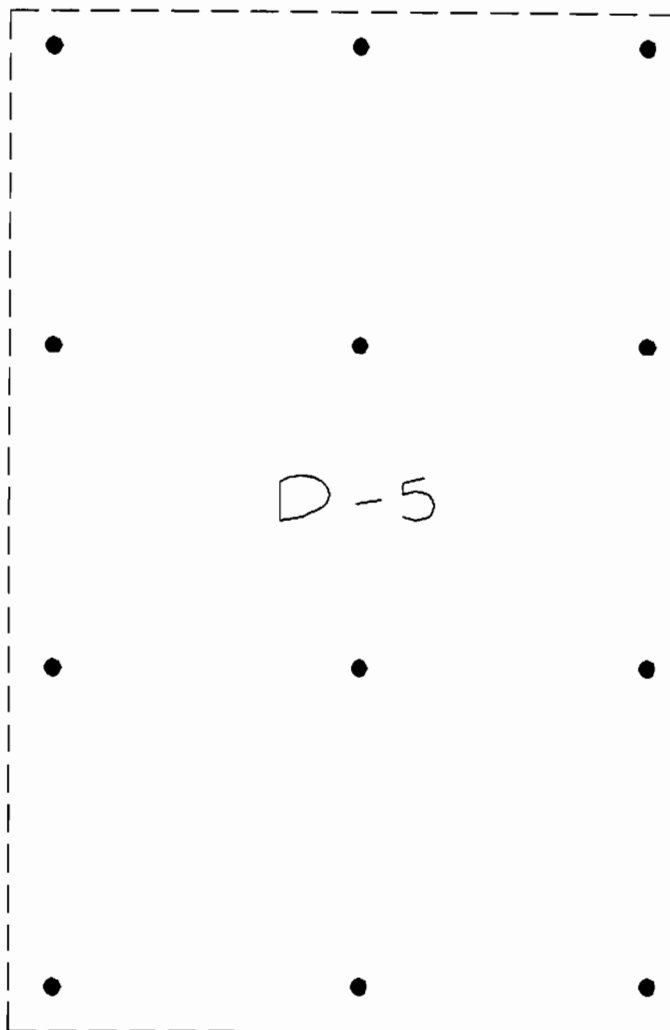
CHECKED: D.V.S.

CAD FILE: GEO-D5

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



FIRE LANE

0  30 FT



**GERAGHTY  
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*Environmental Services*

**GEOPHYSICAL SURVEY GRID: AREA D-5**

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**H-7**



DRAFTER: W.H. CICIO

APPROVED: D. COLTON

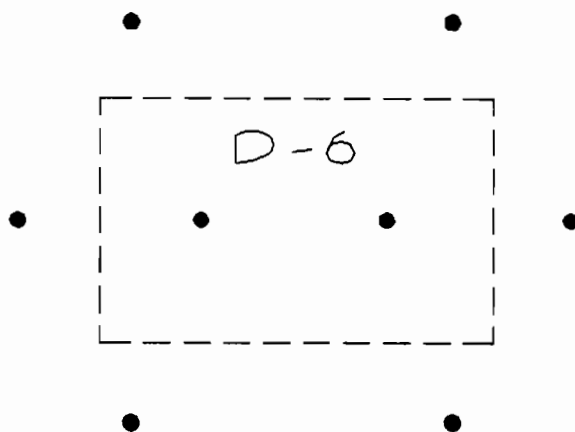
CHECKED: D.V.S.

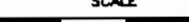
CAD FILE: GEO-D6

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



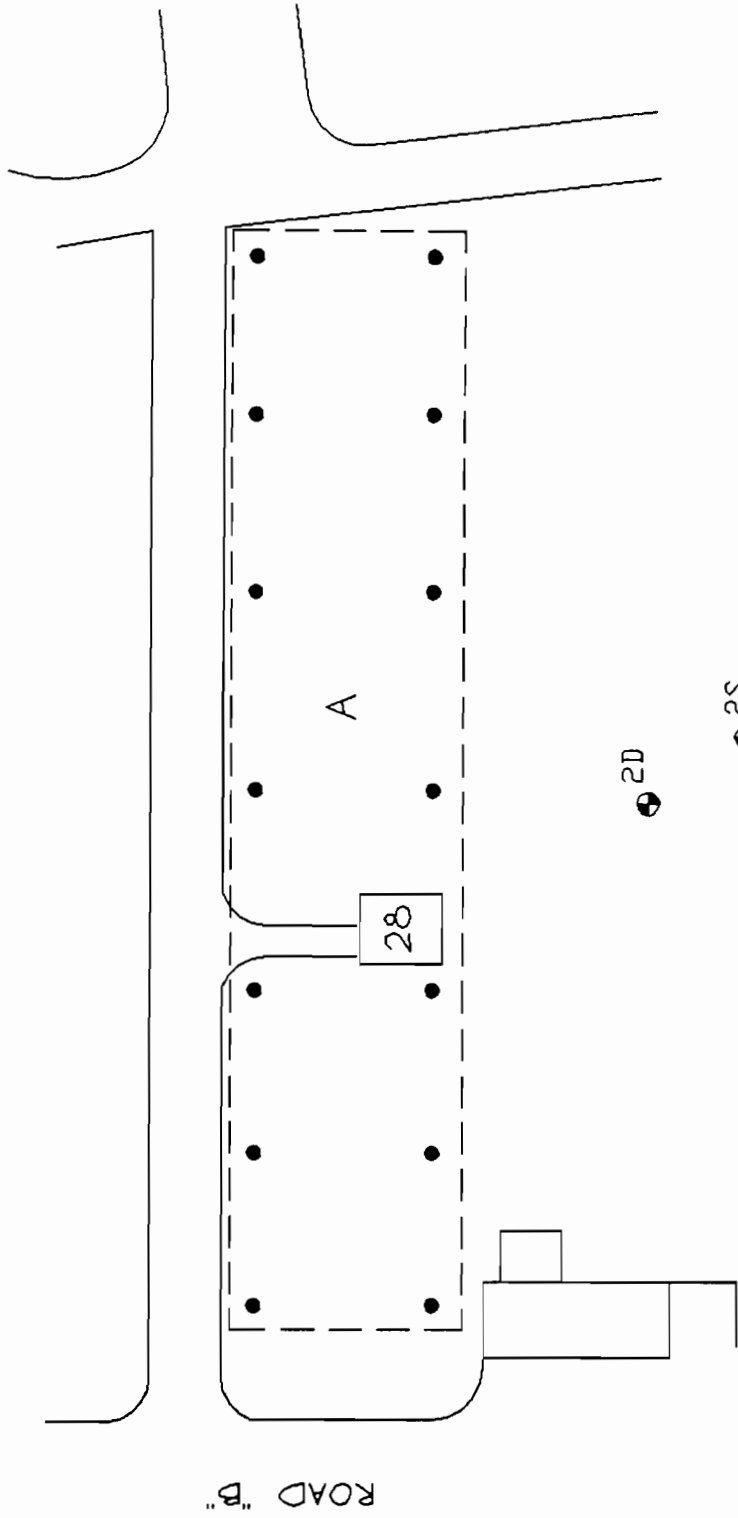
**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

### GEOPHYSICAL SURVEY GRID: AREA D-6

MALTA ROCKET FUEL SITE  
SUPERFUND SITE

FIGURE

**H-8**



SCALE  
0 50 FT



# GEOPHYSICAL SURVEY GRID: AREA A

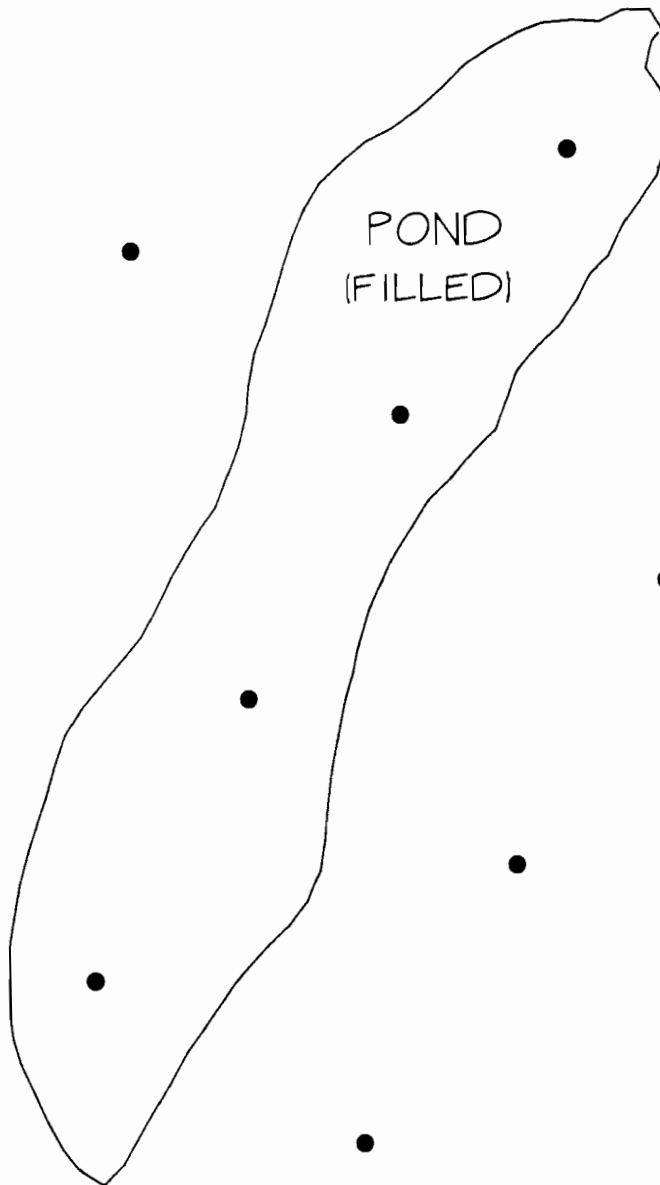
MALTA ROCKET FUEL AREA  
SUPERFUND SITE

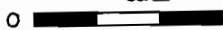
FIGURE

H-9



DWG. DATE: 27NOV90 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: GEO-6 | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICO



0  30 FT



**GERAGHTY  
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*Environmental Services*

**GEOPHYSICAL SURVEY GRID:  
FILLED-IN POND NEAR BUILDING 6**

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**H-10**



DRAFTER: W.H. CICO

APPROVED: D. COLTON

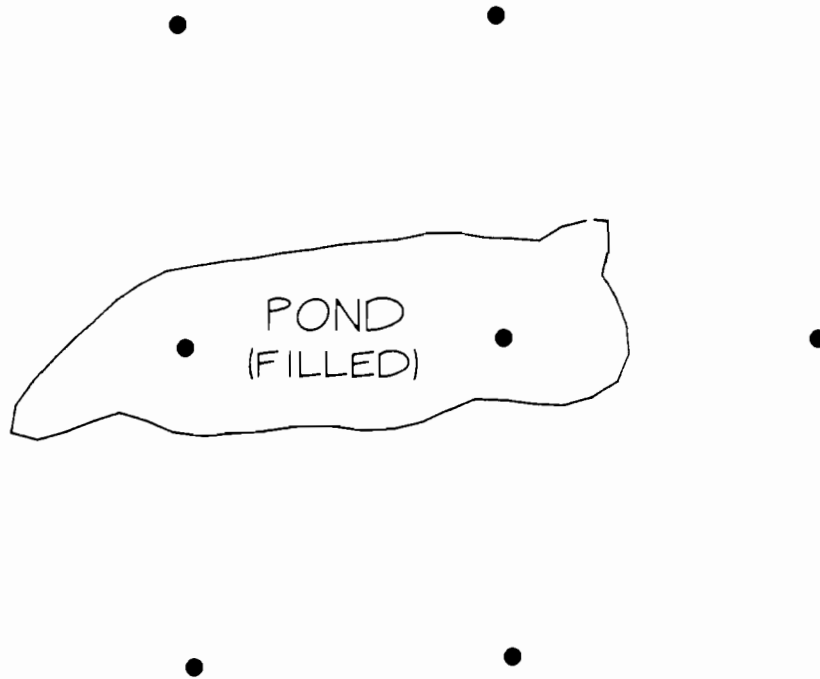
CHECKED: D.V.S.

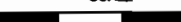
CAD FILE: GEO-7

FILE NO.: 990

PRJCT. NO.: NY04605

DWG. DATE: 27NOV90



0  30 FT



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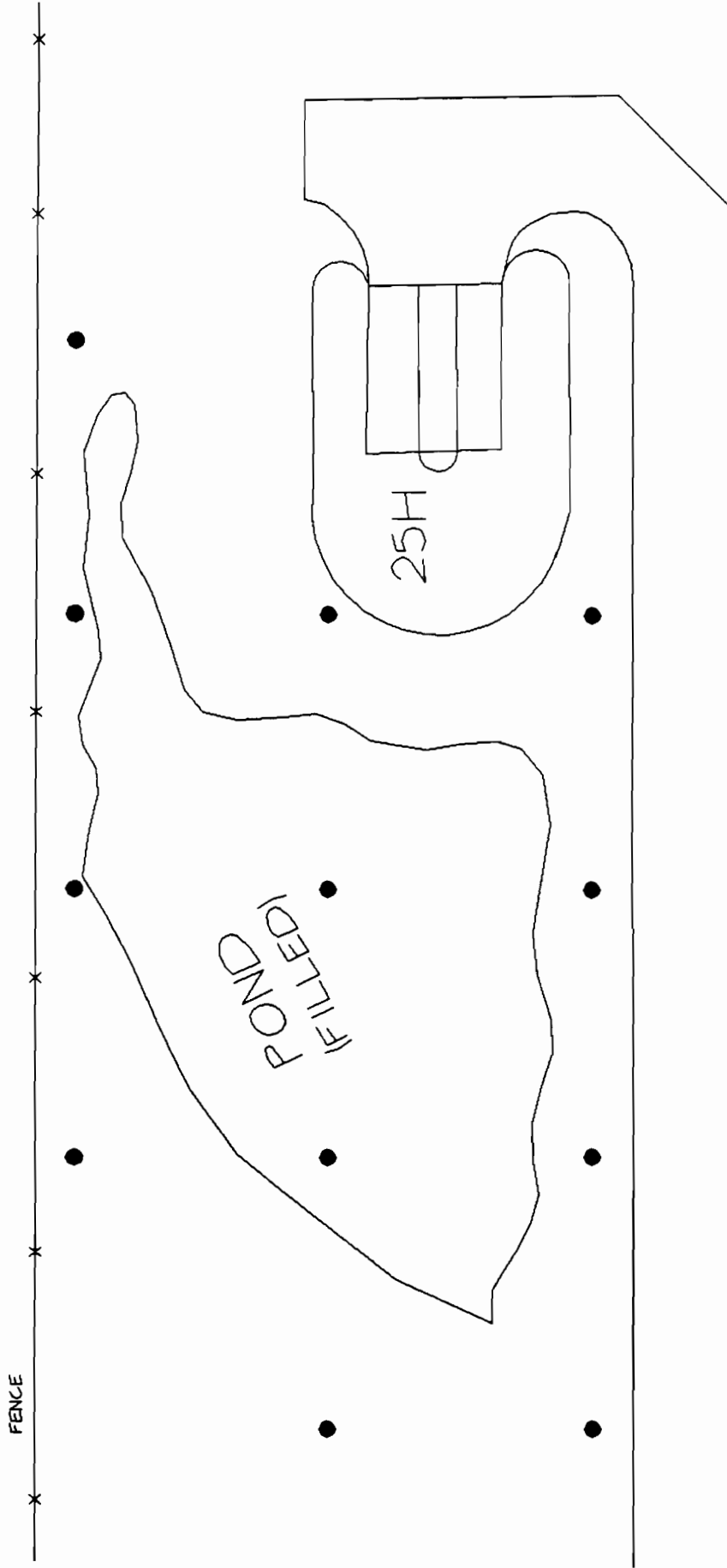
**GEOPHYSICAL SURVEY GRID:  
FILLED-IN POND NEAR BUILDING 7**

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

**H-11**

DWG. DATE: 27NOV90 | PRJCT. NO.: NY04605 | FILE NO.: 980 | CAD FILE: GEO-PTI | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



SCALE 0 40 FT

**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

GEOPHYSICAL SURVEY GRID: FILLED-IN POND AT PTI

GENERAL ELECTRIC COMPANY  
MALTA, NEW YORK

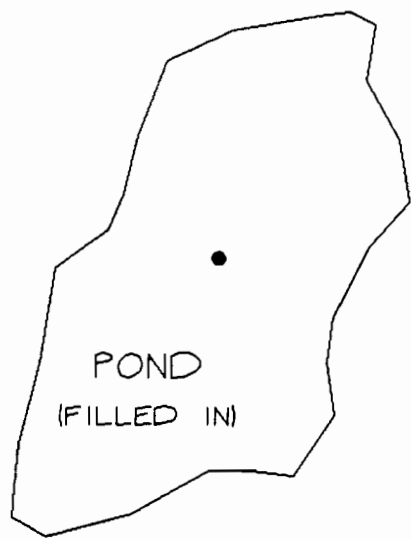
FIGURE

H-12

DWG. DATE: 27NOV90 | PRJCT. NO.: NY04605 | FILE NO.: 990 | CAD FILE: GEO-MAG | CHECKED: D.V.S. | APPROVED: D. COLTON | DRAFTER: W.H. CICIO



ROAD "A"



FENCE



SCALE  
0 10 FT



GERAGHTY  
& MILLER, INC.  
*Environmental Services*

GEOPHYSICAL SURVEY GRID: FILLED-IN  
POND NEAR MAGAZINE AREA

MALTA ROCKET FUEL AREA  
SUPERFUND SITE

FIGURE

H-13