

**APPENDIX C**  
**SOIL SAMPLING LOGS**

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### Appendix C Soil Sample Log Locator Sheet

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|--|--|--|--|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>   |  | HOLE NUMBER <u>DA2-034</u>                     |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |  | DEPT <u>101</u>                                |  |
| 3. PROJECT: <u>DA2-RVAPP</u>   |  | 4. LOCATION: <u>Demu 2 Grounds Area</u>                                  |  |  |  |
| 5. NAME OF DRILLER: <u>n/A</u>   |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u>                        |  |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>35 bowl</u><br><u>35 screen</u><br><u>35 3 1/2" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-034</u>   |  | 9. SURFACE ELEVATION: <u>n/A</u>               |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |  |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |  |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>3<sup>SC</sup>/<sub>4</sub> 18"</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>                 |  |  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |  | UNDISTURBED                                    |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u>   |  | 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>see activity log for analysis</u>  |  | 21. TOTAL CORE RECOVERY: <u>0</u>              |  |
| 22. DISPOSITION OF HOLE: <u>BACKFILLED</u>   |  | MONITORING WELL  |  | 23. SIGNATURE OF INSPECTOR: <u>[Signature]</u> |  |

LOCATION SKETCH/COMMENTS: See map on page 71 SCALE: N ↑ NTS

for the location of DA2-034 in the soil logbook #

HTRW DRILLING LOG

HOLE NUMBER 11A2-031

PROJECT: DA2-RVAPP

INSPECTOR El T Moh

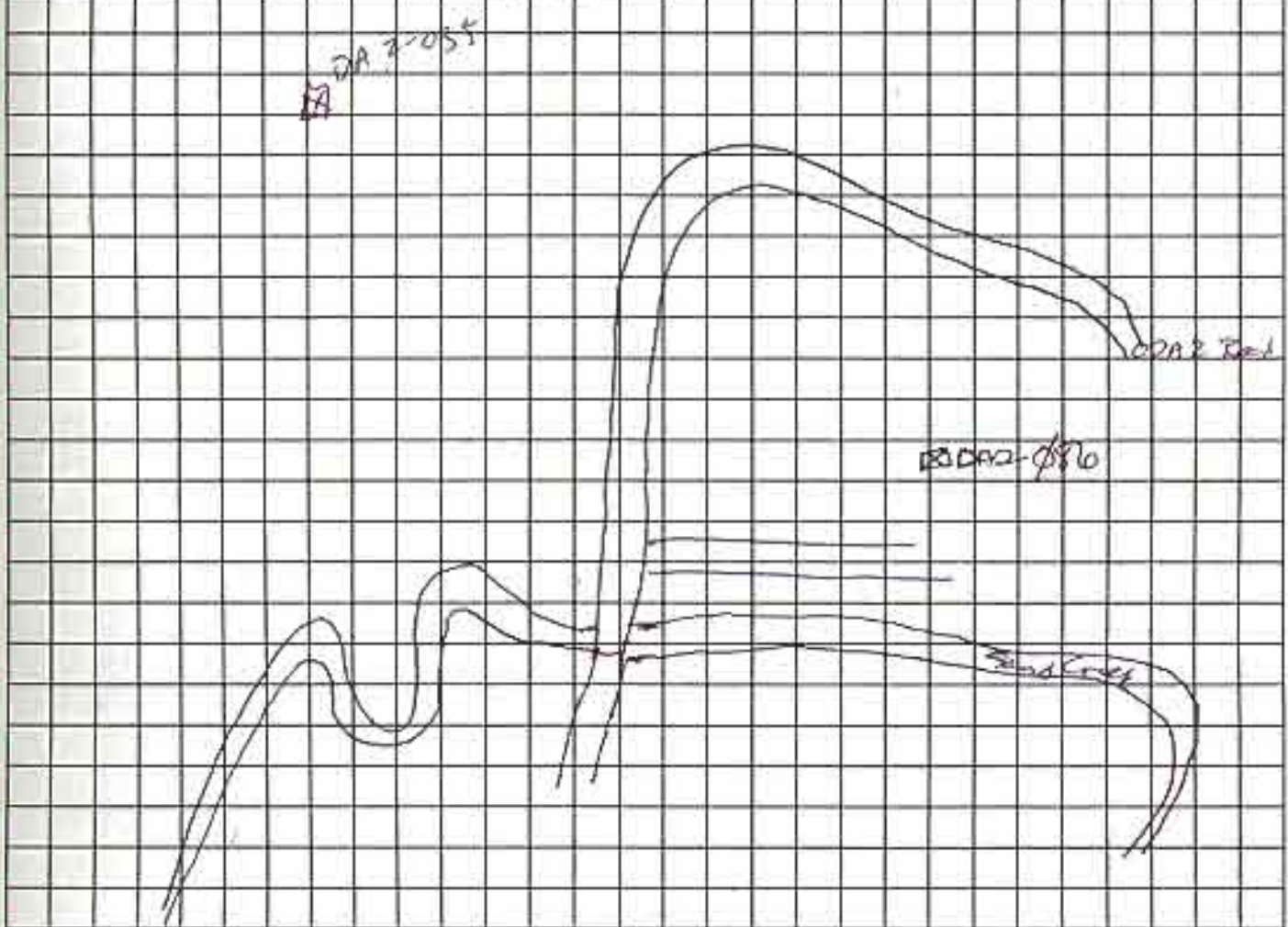
SHEET / OF 1 / 1

| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLI OR CORE BOX | ANALYTICAL SAMPLE NO. (F)          | REMARKS (G)   |
|-----------|-----------|--|-----------------------------|-----------------------------|------------------------------------|---|
|           | 1.80      | silty clay with trace of sand; poorly sorted < 5% pebbles (1-5mm) abundant with fine siltstone common to subangular; plasticity low to medium moist; medium brown with occasional orange/red mottling; some rust stain due to metal pieces | -1.80<br>background         | NA                          | DA2-031-0019-50<br>DA2-031-0020-50 | 3rd hole had pieces of metal. 8-10" had refusal near entrance<br>lots of roots + stems              |
|           | 1.25      | clayey silt with trace of sand; poorly sorted, has subrounded to subangular pebbles (0.5-2.5mm); medium plasticity; moist to wet; color red brown  | +1.25<br>BZ                 | NA                          | 11A2-031-0056-50                   | -2/8" h. + water<br>→ had to terminate borehole because water kept seeping in and filled auger hole |



|   |  |  |   |                                    |  |
|---|--|--|---|------------------------------------|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-035</u>        |  |
| 1. COMPANY NAME: <u>Spec Pro, Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |   | SHEET <u>1</u> OF <u>1</u>         |  |
| 3. PROJECT: <u>DA2-EVAPP</u>  |  |  | 4. LOCATION: <u>Demo 2 Ground Area</u>            |                                    |  |
| 5. NAME OF DRILLER: <u>n/A</u>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>55 bowl</u><br><u>35 spoon</u><br><u>35 3/8" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-035</u>   |   | 8. SURFACE ELEVATION: <u>n/A</u>   |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |   | 10. DATE STARTED: <u>7-19-05</u>   |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |   | 11. DATE COMPLETED: <u>7-19-05</u> |  |
| 14. TOTAL DEPTH OF HOLE: <u>30'</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>                 |   |                                    |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |   | UNDISTURBED                        |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u>  |  |  |   |                                    |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC  |   | METALS                             |  |
| <u>See activity log</u>   |  |  |   |                                    |  |
| 21. DISPOSITION OF HOLE   |  | MONOFILLED   |   | MONITORING WELL                    |  |
| <u>8/03</u>   |  |  |   |                                    |  |
| 22. SIGNATURE OF INSPECTOR: <u>[Signature]</u>  |  |  |   | 23. TOTAL CORE RECOVERY %          |  |

LOCATION SKETCH/COMMENTS: Cross Reference 4.2A SCALE: NTS ↑



HTRW DRILLING LOG

HOLE NUMBER DAD-135

PROJECT: DAD-RUAPP

INSPECTOR: J. J. Mc...

SHEET 1 OF 1

| ELEV (A)  | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)          | REMARKS (G)                               |
|---|-----------|--|-----------------------------|----------------------------|------------------------------------|---|
|   | 1.0       | Dry; light brown silty clay; trace of quartz pebbles, very low plasticity; clay shale pieces ranging from 2 to 10 mm; some dark brown mottling     | NO FID means obtained       | NA                         | ETA<br>DAD-135-<br>135-1351-<br>50 | Some organic matter - roots, twigs, worms |
|   | 2.0       | Light brown silty clay w/ hole presented danger for clay content increased; slightly plastic; slightly damp; graded into a medium brown silty clay | NO FID FID 135              | NA                         | DAD-135-<br>135-1352-<br>50        | Some quartz pebbles                       |
| <p style="font-size: 2em; transform: rotate(-45deg);">8.7.02<br/>CC</p> |           |  |                             |                            |                                    |   |





### HTRW DRILLING LOG

HOLE NUMBER DAD-12

PROJECT: DAD-RVAMP

INSPECTOR C. Carroll

SHEET 1 OF 1

| ELEV (A)             | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS          | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F)                                    | REMARKS (G) |
|----------------------|-----------|--|--------------------------------------|-----------------------------|---|-------------|
|                      | 1.0       | Slty Clay, poorly graded, med to sub angular to angular, low plasticity, moist, red brown  | FID problem not functioning properly | N/A                         | DAD-12-086<br>D653-30<br>DAD-12-086<br>D656-30<br>Duplicate |             |
|                      | 2.0       | Clay silty, poorly graded, 10-20mm angular to sub angular med to low plasticity, moist red red brown, some mottling reddish orange |                                      | N/A                         | DAD-12-087<br>D654-30                                       |             |
|                      | 3.0       | Slty clay, poorly graded, low plasticity, moist to wet, gray brown   |                                      |                             |   | CC 7/16/02  |
| <p>8-7-00<br/>CC</p> |           |  |                                      |                             |   |             |





HTRW DRILLING LOG

HOLE NUMBER DA2-637

PROJECT: DA2-RUAP

INSPECTOR: C. Small

SHEET 1 OF 1

| REV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)               |
|---------|-----------|---|-----------------------------|-----------------------------|--------------------------|---------------------------|
|         | 6"        | 0.75m to 1.0m silty clay sand fine grained, fine sand, fine plasticity, moist, reddish brown color, some nodules                | not available               | n/a                         | DA2-637<br>φ155-50       | Roots throughout<br>worms |
|         | 1.0       | Silty sand clay fine grained, well sorted, med to low plasticity, moisture wet of brown range marked w/ 1/4 inch spray          | not available               |                             | DA2-637<br>φ852-50       |                           |
|         | 1.8       | Water in hole<br>Same as above but grading into 30% gravel, sub rounded, to sub angular (1-50mm), continuous grad to 60% gravel | not available               | n/a                         | DA2-637<br>φ156-50       |                           |
|         | 2.0       | Refusal at 1.8" due to rocks or possible log metal object   | not available               |                             |                          |                           |
|         | 3.0       |   |                             |                             |                          | cc 8-2 φ2                 |



|   |  |  |   |                                     |  |
|---|--|--|---|-------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                              |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER<br><u>DA2-038</u>       |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>                |  | 2. DRILL SUBCONTRACTOR:<br><u>n/a</u>                                    |   | SHEET <u>1 of 1</u>                 |  |
| 3. PROJECT: <u>DA2-RVAAP</u>                          |  |  | 4. LOCATION: <u>Demol Grounds Area</u>            |                                     |  |
| 5. NAME OF DRILLER: <u>n/a</u>                        |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT |  | 8. HOLE LOCATION: <u>DA2-038</u>   |   |                                     |  |
| <u>55 bowl</u>  |  | 9. SURFACE ELEVATION: <u>n/a</u>   |   |                                     |  |
| <u>32 5200m</u>                                       |  | 10. DATE STARTED: <u>7-25-02</u>   |   |                                     |  |
| <u>25 3/4" auger bucket</u>                           |  | 11. DATE COMPLETED: <u>7-25-02</u>                                       |   |                                     |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>                  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   |                                     |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   |                                     |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>                  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |   |                                     |  |
| 18. GEOTECHNICAL SAMPLES                              |  | DISTURBED  |   | UNDISTURBED                         |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>            |  | 20. SAMPLES FOR CHEMICAL ANALYSIS  |   | 21. TOTAL CORE RECOVERY: <u>n/a</u> |  |
| <u>see activity log for analysis</u>                  |  | VOC  |   | METALS                              |  |
| <u>see activity log for analysis</u>                  |  | OTHER (SPECIFY):   |   | OTHER (SPECIFY):                    |  |
| 22. DISPOSITION OF HOLE                               |  | 23. SIGNATURE OF INSPECTOR   |   | OTHER (SPECIFY):                    |  |
| <u>BACKFILLED</u>                                     |  | <u>8/5/02</u>  |   | <u>Monitoring Well</u>              |  |
| <u>8/5/02</u>   |  | <u>8/5/02</u>  |   | <u>8/5/02</u>                       |  |

LOCATION SKETCH/COMMENTS SCALE:

LOCATION MAP  
FOR DA2-038  
IS ON PAGE 71 of an  
Soil log book #11





|  |  |  |   |   |  |
|--|--|--|---|---|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-039</u>   |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |   | SHEET <u>L of 1</u>   |  |
| 3. PROJECT: <u>DA2-RVAPP</u>   |  |  | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |   |  |
| 5. NAME OF DRILLER: <u>n/A</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>33 bow</u><br><u>33 spoon</u><br><u>SS 3 1/2" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-039</u>   |   | 9. SURFACE ELEVATION: <u>n/A</u>                                    |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |   | 11. DATE STARTED: <u>7-16-02</u> 11. DATE COMPLETED: <u>7-16-02</u> |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>  |  | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>            |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>   |  | 19. TOTAL NUMBER OF CORE BOXES:  |   | 21. TOTAL CORE RECOVERY: %  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |   | UNDISTURBED   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>see activity log</u>   |  | VOC:   |   | METALS  |  |
| 22. DISPOSITION OF HOLE: <u>filled</u>   |  | MONITORING WELL  |   | OTHER (SPECIFY):  |  |
|  |  |  |   | 23. SIGNATURE OF INSPECTOR: <u>C. Canell</u>                        |  |

LOCATION SKETCH/COMMENTS: \_\_\_\_\_ SCALE: \_\_\_\_\_

See page 3  
for location  
of DA2-039  
in the soil log  
book #1

HTRW DRILLING LOG

HOLE NUMBER DA2-089

PROJECT: DA2-RVAPP

INSPECTOR: C. Canall

SHEET b7

| ELEV. (A)    | DEPTH (B) feet | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOCHEM SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)                     |
|--------------|----------------|--|-----------------------------|----------------------------|---------------------------|---------------------------------|
|              | 1.0            | Sandy silt, poorly sorted, gravel subangular 1-7cm, lot of med plasticity, moist, med. brown                           | 4.05 ppm                    | N/A                        | DA2-089-031-050           | Roots, stems, metal, earthworms |
|              | 2.0            | Silty clay, gravel subangular to subrounded 1-12cm, med plasticity, moist, med. brown with some reddish brown mottling |                             |                            |                           | metal frag piece                |
|              | 3.0            |  | 4.52 ppm                    | N/A                        | DA2-089-031-050           |                                 |
| 8-7-02<br>CC |                |  |                             |                            |                           |                                 |



|   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <u>Louisville</u>                                 |  | HOLE NUMBER<br><u>DA2-040</u>  |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u>                       |  | DATE<br><u>7-23-02</u>   |  |
| 3. PROJECT<br><u>DA2-RVAP</u>   |  |  | 4. LOCATION<br><u>Demo 2 Grounds Area</u>            |  |  |
| 5. NAME OF DRILLER<br><u>n/a</u>  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>n/a</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>SS down</u><br><u>SS spoon</u><br><u>SS 3 1/2" auger bucket</u> |  | 8. HOLE LOCATION<br><u>DA2-040</u>                         |  | 9. SURFACE ELEVATION<br><u>n/a</u>   |  |
| 12. OVERBURDEN THICKNESS<br><u>n/a</u>  |  | 10. DATE STARTED<br><u>7-23-02</u>                         |  | 11. DATE COMPLETED<br><u>7-23-02</u>                                       |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>n/a</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>n/a</u>            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |  |
| 14. TOTAL DEPTH OF HOLE<br><u>3 ft</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/a</u> |  |  |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |  | UNDISTURBED  |  |
| 19. SAMPLED FOR CHEMICAL ANALYSIS<br><u>See activity log for analysis</u>   |  | VOC  |  | METALS   |  |
| 20. DISPOSITION OF HOLE<br><u>Backfilled</u>  |  | MONITORING WELL  |  | OTHER (SPECIFY)  |  |
| 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>  |  | 22. TOTAL CORE RECOVERY %                                  |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                           |  |
| LOCATION SKETCH/COMMENTS<br><u>See map pg 71</u>  |  | SCALE: <u>NTS</u>  |  | <u>↑ N</u>   |  |
| <p><u>for location</u><br/><u>of DA2-040</u><br/><u>in the soil log book #1</u></p>   |  |  |  |  |  |

HTRW DRILLING LOG

HOLE NUMBER 022-019

PROJECT: D22-EVAMP

INSPECTOR: E. J. Hill

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)              |
|----------|-----------|--|-----------------------------|-----------------------------|---------------------------|--------------------------|
|          | 1.0       | Silty clay with medium amount of sand. poorly graded; trace calcite pebbles which are rounded → sub rounded (0.5 → 3mm in size), med.; | Ind. grad<br>-0.64          | NA                          | D22-019-010               | tree roots               |
|          | 1.5       | low plasticity, medium brown with occasional reddish orange mottling;  | -0.73<br>BE                 |                             |                           |                          |
|          | 2.0       | 1.5' change to silty clay with no sand.  | -0.36<br>Ind. grad          | NA                          | D22-019-046-0662-150      | Tree roots, stems        |
|          | 2.5       | 2.1' grades to a clayey silty med. grad. with a moderate medium plasticity. color - steel gray mottled with orange-red                 | -0.73<br>BE                 |                             | D22-019-054-50 (Dup)      | Definitely wetland soils |
|          | 3.0       |  |                             |                             |                           |                          |
|          | 4.0       |  |                             |                             |                           |                          |
|          | 5.0       |  |                             |                             |                           |                          |
|          | 6.0       |  |                             |                             |                           |                          |
|          | 7.0       |  |                             |                             |                           |                          |
|          | 8.0       |  |                             |                             |                           |                          |
|          | 9.0       |  |                             |                             |                           |                          |
|          | 10.0      |  |                             |                             |                           |                          |
|          | 11.0      |  |                             |                             |                           |                          |
|          | 12.0      |  |                             |                             |                           |                          |
|          | 13.0      |  |                             |                             |                           |                          |
|          | 14.0      |  |                             |                             |                           |                          |
|          | 15.0      |  |                             |                             |                           |                          |
|          | 16.0      |  |                             |                             |                           |                          |
|          | 17.0      |  |                             |                             |                           |                          |
|          | 18.0      |  |                             |                             |                           |                          |
|          | 19.0      |  |                             |                             |                           |                          |
|          | 20.0      |  |                             |                             |                           |                          |
|          | 21.0      |  |                             |                             |                           |                          |
|          | 22.0      |  |                             |                             |                           |                          |
|          | 23.0      |  |                             |                             |                           |                          |
|          | 24.0      |  |                             |                             |                           |                          |
|          | 25.0      |  |                             |                             |                           |                          |
|          | 26.0      |  |                             |                             |                           |                          |
|          | 27.0      |  |                             |                             |                           |                          |
|          | 28.0      |  |                             |                             |                           |                          |
|          | 29.0      |  |                             |                             |                           |                          |
|          | 30.0      |  |                             |                             |                           |                          |
|          | 31.0      |  |                             |                             |                           |                          |
|          | 32.0      |  |                             |                             |                           |                          |
|          | 33.0      |  |                             |                             |                           |                          |
|          | 34.0      |  |                             |                             |                           |                          |
|          | 35.0      |  |                             |                             |                           |                          |
|          | 36.0      |  |                             |                             |                           |                          |
|          | 37.0      |  |                             |                             |                           |                          |
|          | 38.0      |  |                             |                             |                           |                          |
|          | 39.0      |  |                             |                             |                           |                          |
|          | 40.0      |  |                             |                             |                           |                          |
|          | 41.0      |  |                             |                             |                           |                          |
|          | 42.0      |  |                             |                             |                           |                          |
|          | 43.0      |  |                             |                             |                           |                          |
|          | 44.0      |  |                             |                             |                           |                          |
|          | 45.0      |  |                             |                             |                           |                          |
|          | 46.0      |  |                             |                             |                           |                          |
|          | 47.0      |  |                             |                             |                           |                          |
|          | 48.0      |  |                             |                             |                           |                          |
|          | 49.0      |  |                             |                             |                           |                          |
|          | 50.0      |  |                             |                             |                           |                          |
|          | 51.0      |  |                             |                             |                           |                          |
|          | 52.0      |  |                             |                             |                           |                          |
|          | 53.0      |  |                             |                             |                           |                          |
|          | 54.0      |  |                             |                             |                           |                          |
|          | 55.0      |  |                             |                             |                           |                          |
|          | 56.0      |  |                             |                             |                           |                          |
|          | 57.0      |  |                             |                             |                           |                          |
|          | 58.0      |  |                             |                             |                           |                          |
|          | 59.0      |  |                             |                             |                           |                          |
|          | 60.0      |  |                             |                             |                           |                          |
|          | 61.0      |  |                             |                             |                           |                          |
|          | 62.0      |  |                             |                             |                           |                          |
|          | 63.0      |  |                             |                             |                           |                          |
|          | 64.0      |  |                             |                             |                           |                          |
|          | 65.0      |  |                             |                             |                           |                          |
|          | 66.0      |  |                             |                             |                           |                          |
|          | 67.0      |  |                             |                             |                           |                          |
|          | 68.0      |  |                             |                             |                           |                          |
|          | 69.0      |  |                             |                             |                           |                          |
|          | 70.0      |  |                             |                             |                           |                          |
|          | 71.0      |  |                             |                             |                           |                          |
|          | 72.0      |  |                             |                             |                           |                          |
|          | 73.0      |  |                             |                             |                           |                          |
|          | 74.0      |  |                             |                             |                           |                          |
|          | 75.0      |  |                             |                             |                           |                          |
|          | 76.0      |  |                             |                             |                           |                          |
|          | 77.0      |  |                             |                             |                           |                          |
|          | 78.0      |  |                             |                             |                           |                          |
|          | 79.0      |  |                             |                             |                           |                          |
|          | 80.0      |  |                             |                             |                           |                          |
|          | 81.0      |  |                             |                             |                           |                          |
|          | 82.0      |  |                             |                             |                           |                          |
|          | 83.0      |  |                             |                             |                           |                          |
|          | 84.0      |  |                             |                             |                           |                          |
|          | 85.0      |  |                             |                             |                           |                          |
|          | 86.0      |  |                             |                             |                           |                          |
|          | 87.0      |  |                             |                             |                           |                          |
|          | 88.0      |  |                             |                             |                           |                          |
|          | 89.0      |  |                             |                             |                           |                          |
|          | 90.0      |  |                             |                             |                           |                          |
|          | 91.0      |  |                             |                             |                           |                          |
|          | 92.0      |  |                             |                             |                           |                          |
|          | 93.0      |  |                             |                             |                           |                          |
|          | 94.0      |  |                             |                             |                           |                          |
|          | 95.0      |  |                             |                             |                           |                          |
|          | 96.0      |  |                             |                             |                           |                          |
|          | 97.0      |  |                             |                             |                           |                          |
|          | 98.0      |  |                             |                             |                           |                          |
|          | 99.0      |  |                             |                             |                           |                          |
|          | 100.0     |  |                             |                             |                           |                          |

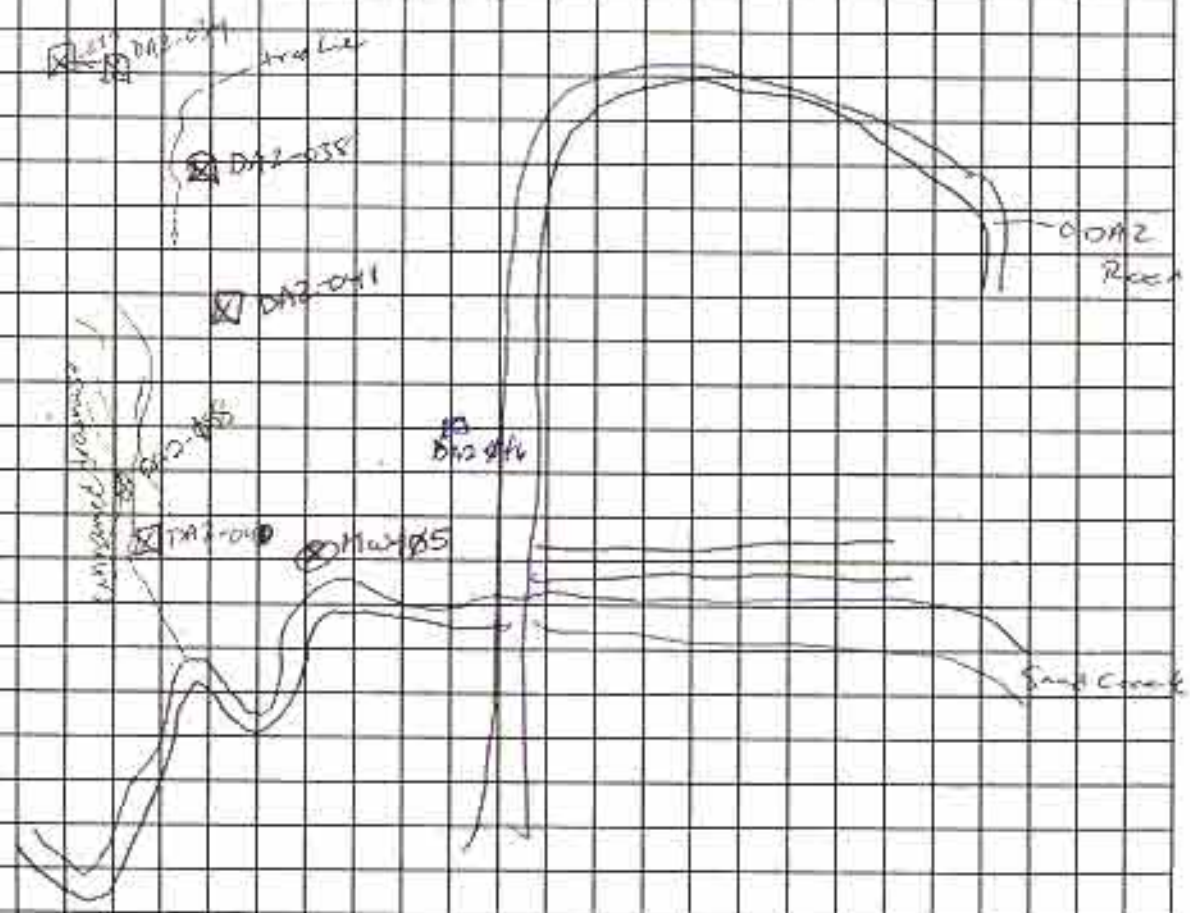
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|---|--|--|--|---|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <u>Louisville</u>   |  | HOLE NUMBER <u>DA2-041</u>                    |  |
| 1. COMPANY NAME <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR <u>n/a</u>  |  | SHEET <u>6 of 1</u>                           |  |
| 3. PROJECT <u>DA2-RVAMP</u>   |  |  | 4. LOCATION <u>Demo 2 Ground Area</u>            |   |  |
| 5. NAME OF DRILLER <u>n/a</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL <u>n/a</u> |   |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>35 (2x) 35 2x 35<br/>35 3/4" auger bucket</u> |  | 8. HOLE LOCATION <u>DA2-041</u>  |  | 9. SURFACE ELEVATION <u>n/a</u>               |  |
| 12. OVERBURDEN THICKNESS <u>n/a</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                             |  | 10. DATE STARTED <u>7-23-02</u>               |  |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED. <u>n/a</u> |  | 11. DATE COMPLETED <u>7-23-02</u>             |  |
| 14. TOTAL DEPTH OF HOLE <u>36x</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>n/a</u>                  |  | 19. TOTAL NUMBER OF CORE BOXES <u>n/a</u>     |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |  | UNDISTURBED                                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><u>see activity log</u>  |  | VOC <u>DA</u>  |  | METALS <u>NA</u>                              |  |
| 22. DISPOSITION OF HOLE   |  | SACRALLED <u>8/5/02</u>  |  | MONITORING WELL (OTHER (SPECIFY))             |  |
|   |  |  |  | 21. TOTAL CORE RECOVERY %                     |  |
|   |  |  |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |

LOCATION SKETCH/COMMENTS

SCALE: NTS ↑ N



HTRW DRILLING LOG

HOLE NUMBER D02-041

PROJECT: D02-RVAPP

INSPECTOR: E. J. Moh

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS        | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)  |
|----------|-----------|--|------------------------------------|----------------------------|--------------------------|--|
|          | 0.5       | clayey silt, poorly sorted, trace of gravel (0.5-3 mm), medium plasticity, moist to wet; medium brown with red-orange mottling. Three hole SPT obtained from core brown color with grey mottling | -1.20<br>Ballpoint<br>-1.30<br>BZ  | NA                         | D02-041-063-50           | Roots stems<br>Center hole - more clay + more grey mottling            |
|          | 1.0       | Consistency the same as above. Grey mottling starts up at 1'   | -1.70<br>pencilpoint<br>0.33<br>BZ | NA                         | D02-041-064-50           | Black burn note recorded at 2.5' depth.<br>Trace blue clay at 3' depth |
|          | 2.0       |  |                                    |                            |                          |  |
|          | 3.0       |  |                                    |                            |                          |  |
|          | 4.0       |  |                                    |                            |                          |  |
|          | 5.0       |  |                                    |                            |                          |  |
|          | 6.0       |  |                                    |                            |                          |  |
|          | 7.0       |  |                                    |                            |                          |  |
|          | 8.0       |  |                                    |                            |                          |  |
|          | 9.0       |  |                                    |                            |                          |  |
|          | 10.0      |  |                                    |                            |                          |  |

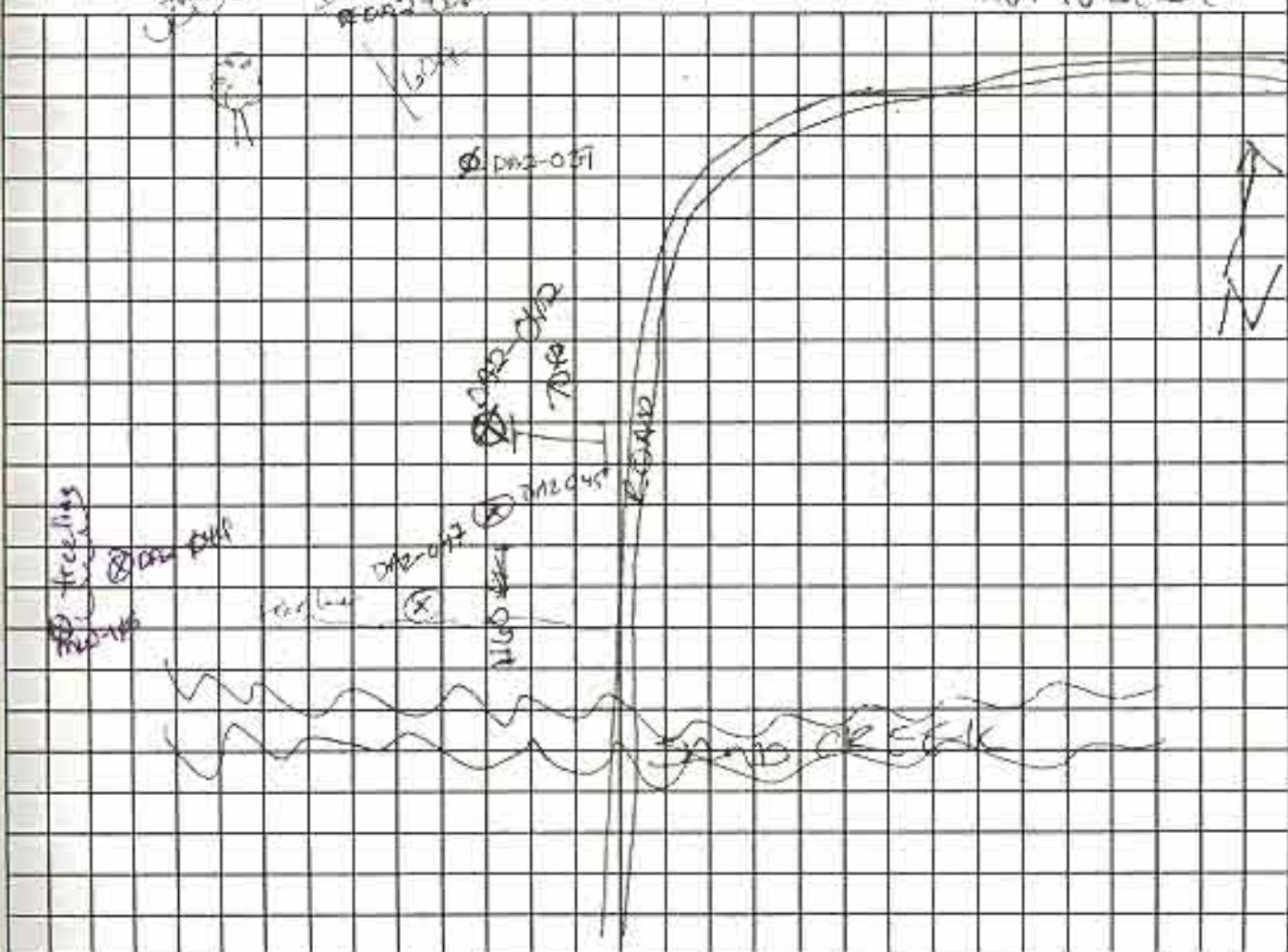
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|---|--|--|---|---|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <u>Louisville</u>   |   | HOLE NUMBER <u>DA2-042</u>                    |  |
| 1. COMPANY NAME<br><u>Spec Pro, Inc</u>   |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u>                                       |   | SHEET <u>1</u> OF <u>1</u>                    |  |
| 3. PROJECT<br><u>DA2-EVAAP</u>  |  |  | 4. LOCATION<br><u>Demo Grounds</u>                  |   |  |
| 5. NAME OF DRILLER  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL<br><u>n/a</u> |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>SS split<br/>SS (200)<br/>SS 3 1/2" dia auger</u> |  | 8. HOLE LOCATION<br><u>DA2-042</u>   |   | 9. SURFACE ELEVATION<br><u>n/a</u>            |  |
| 12. OVERBURDEN THICKNESS<br><u>n/a</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>n/a</u>                            |   | 10. DATE STARTED<br><u>7-15-02</u>            |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>n/a</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |   | 11. DATE COMPLETED<br><u>7-15-02</u>          |  |
| 14. TOTAL DEPTH OF HOLE<br><u>3 ft</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/a</u>                 |   |   |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |   | UNDISTURBED                                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS<br><u>See activity sheet print</u>  |  | VOC  |   | METALS  |  |
| 20. DISPOSITION OF HOLE<br><u>8/5/02</u>  |  | BYPOLLED   |   | MONITORING WELL                               |  |
|   |  |  |   | OTHER (SPECIFY)                               |  |
|   |  |  |   | 21. TOTAL CORE RECOVERY %                     |  |
|   |  |  |   | 21. SIGNATURE OF INSPECTOR<br><u>C. Canab</u> |  |

LOCATION SKETCH/COMMENTS

SCALE: not to scale







|  |  |                                     |  |  |  |
|--|--|-------------------------------------|--|--|--|
| <b>HTRW DRILLING LOG</b>                             |  | DISTRICT: <u>Louisville</u>         |  | HOLE NUMBER<br><u>DA2-Ø43</u>                  |  |
| 1 COMPANY NAME:<br><u>Spec Pro Inc</u>               |  | 2 DRILL SUBCONTRACTOR<br><u>n/a</u> |  | 3 HOLE LOG #<br><u>1</u>                       |  |
| 3 PROJECT: <u>DA2-RVAPP</u>                          |  |                                     | 4 LOCATION: <u>Dem<sup>2</sup> ground area</u>                             |  |  |
| 5 NAME OF DRILLER: <u>n/a</u>                        |  |                                     | 6 MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                           |  |  |
| 7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT |  | 8 HOLE LOCATION: <u>DA2-Ø43</u>     |  |  |  |
| <u>SS bowl</u>                                       |  | 9 SURFACE ELEVATION: <u>n/a</u>     |  |  |  |
| <u>SS spoon</u>                                      |  | 10 DATE STARTED: <u>7-26-Ø2</u>     |  |  |  |
| <u>SS 3/2" auger bucket</u>                          |  | 11 DATE COMPLETED: <u>7-26-Ø2</u>   |  |  |  |
| 12 OVERBURDEN THICKNESS: <u>n/a</u>                  |  |                                     | 15 DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                               |  |  |
| 13 DEPTH DRILLED INTO ROCK: <u>n/a</u>               |  |                                     | 16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>n/a</u> |  |  |
| 14 TOTAL DEPTH OF HOLE: <u>3 ft</u>                  |  |                                     | 17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>n/a</u>                 |  |  |
| 18 GEOTECHNICAL SAMPLES                              |  | DISTURBED                           |  | UNDISTURBED                                    |  |
| 19 TOTAL NUMBER OF CORE BOXES: <u>n/a</u>            |  | 20 SAMPLES FOR CHEMICAL ANALYSIS    |  | 21 TOTAL CORE RECOVERY                         |  |
| <u>See Activity log for analysis</u>                 |  | MOC                                 |  | METALS   |  |
| 22 DISPOSITION OF CORE                               |  | OTHER (SPECIFY)                     |  | OTHER (SPECIFY)                                |  |
| <u>8/5/Ø2</u>  |  | <u>MONITORING WELL</u>              |  | 23 SIGNATURE OF INSPECTOR:<br><u>C. Canall</u> |  |

LOCATION SKETCH/COMMENTS SCALE:

|   |  |
|---|--|
| <p>see page 111<br/>for location of<br/>DA2-Ø43 in the<br/>soil log book #1</p> |  |
|---|--|



# HTRW DRILLING LOG

HOLE NUMBER **DA2-043**

PROJECT: **DA2-NAME**

INSPECTOR **C. Canall**

SHEET **1** OF **1**

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)  |
|----------|-----------|---|-----------------------------|-----------------------------|---------------------------|--|
|          | 0.0       | Silty clay, poor sorted mixed in gravel subangular to angular 0.5-3cm moist, low plasticity reddish brown mottled of orange | not available               | N/A                         | DA2-043-50<br>#6667-50    | one of holes had cross hole - one of explosives holes towards creek had 4" organic layer; cobble on top where Green flood over |
|          | 1.0       | Same as above   | ..                          |                             | DA2-043-50<br>#6668-50    |  |
|          | 2.0       | 2.9. Organated materials to grey  |                             |                             |                           |  |
|          | 2.1       | very dark organic (?) or sandy deposits interspersed w/ roots, stems, moist to wet - water coming into hole @ 2.1           |                             |                             |                           |  |
|          | 2.5       | 2.9. Organated materials to grey  |                             |                             |                           |  |
|          | 2.9       | 2.9. Organated materials to grey  |                             |                             |                           |  |
|          | 3.0       |   |                             |                             |                           |  |
|          | 4.0       |   |                             |                             |                           |  |
|          | 5.0       |   |                             |                             |                           |  |
|          | 6.0       |   |                             |                             |                           |  |
|          | 7.0       |   |                             |                             |                           |  |
|          | 8.0       |   |                             |                             |                           |  |
|          | 9.0       |   |                             |                             |                           |  |
|          | 10.0      |   |                             |                             |                           |  |

8/15-02 CC

|  |  |  |   |   |  |
|--|--|--|---|---|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-044</u>   |  |
| 1. COMPANY NAME: <u>Spectro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                                       |   | SHEET <u>1 of 1</u>   |  |
| 3. PROJECT: <u>DA2-RUAPP</u>   |  |  | 4. LOCATION: <u>Demo 2 Area Grounds</u>           |   |  |
| 5. NAME OF DRILLER: <u>n/a</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>SS 1001</u><br><u>SS 3000</u><br><u>SS 3 1/2" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-044</u>   |   | 9. SURFACE ELEVATION: <u>n/a</u>                                      |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   | 10. DATE STARTED: <u>7-24-02</u>   11. DATE COMPLETED: <u>7-24-02</u> |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>  |  | 10. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>              |  |
| 14. TOTAL DEPTH OF HOLE: <u>3' 11" re</u><br><u>2' 8" ft</u>   |  | 16. GEOTECHNICAL SAMPLES   |   | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>                            |  |
|  |  | DISTURBED  |   | UNDISTURBED   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>See activity log book for details</u>  |  | VOC  |   | METALS  |  |
| 22. DISPOSITION OF HOLE: <u>BACKFILLED</u><br><u>8/5/02</u>  |  | MONITORING WELL  |   | OTHER (SPECIFY)   |  |
|  |  |  |   | 21. TOTAL CORE RECOVERY: %  |  |
|  |  |  |   | 23. SIGNATURE OF INSPECTOR: <u>C. Canale</u>                          |  |

LOCATION SKETCH/COMMENTS

SCALE:

See page 3 in the  
activity log book for  
the location of DA2-044



### HTRW DRILLING LOG

HOLE NUMBER DAD-044

PROJECT: PA2 - RVADP

INSPECTOR C. Small

SHEET 1 OF 1

| ELEV (A)                         | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOCHEM SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)                   | REMARKS (G)   |
|----------------------------------|-----------|--|-----------------------------|----------------------------|---|---|
|                                  | 1         | Clay silt, poorly graded gravel to pebbles (some subangular 6-8mm) more to west, med plasticity, med. yellowish brown structure of orange mottling | 0.89 ppm                    | N/A                        | DAD-044<br>DAD-50<br>DAD-64<br>DAD-50 (dup) | particulates, stems, roots<br>blue gray clumps towards bottom of 1 ft interval intermixed |
|                                  | 1         | Change of color to more light yellow brown w/gray and orange mottling, some pebbles getting larger some sandstone. find up to 15cm                 | 1.37 ppm                    | N/A                        | DAD-64<br>DAD-50<br>split                   | roots, earthworms   |
|                                  |           | 25 Refusal due to huge rock - unable to dislodge   |                             |                            |   |   |
| <p><del>8-15-02</del><br/>cc</p> |           |  |                             |                            |   |   |

|   |  |   |   |                                    |  |
|---|--|---|---|------------------------------------|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>   |   | HOLE NUMBER<br><u>DA2-045</u>      |  |
| 1. COMPANY NAME:<br><u>Spec Pro Inc</u>   |  | 7. DRILL SUBCONTRACTOR:<br><u>n/A</u>                                       |   | SHEET <u>1</u> OF <u>1</u>         |  |
| 3. PROJECT: <u>DA2-RUAPP</u>  |  |   | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |                                    |  |
| 5. NAME OF DRILLER: <u>n/A</u>  |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><u>33 hand</u><br><u>33 300m</u><br><u>37 3/4" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-045</u>  |   | 9. SURFACE ELEVATION: <u>n/A</u>   |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                               |   | 10. DATE STARTED: <u>7-15-02</u>   |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>n/A</u> |   | 11. DATE COMPLETED: <u>7-15-02</u> |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>n/A</u>                 |   |                                    |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED   |   | UNDISTURBED                        |  |
| 19. TOTAL NUMBER OF CORE BOXES  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS   |   | 21. TOTAL CORE RECOVERY %          |  |
| 300 Activity log  |  | VOC   |   | METALS                             |  |
| 22. DISPOSITION OF HOLE:<br><u>8/5/02</u>   |  | MONITORING WELL   |   | OTHER (SPECIFY)                    |  |
| 23. SIGNATURE OF INSPECTOR:<br><u>[Signature]</u>   |  | OTHER (SPECIFY)   |   | OTHER (SPECIFY)                    |  |

LOCATION SKETCH/COMMENTS: See map page 3 SCALE: \_\_\_\_\_

For location of  
DA2-045 in soil  
logbook #1



HTRW DRILLING LOG

HOLE NUMBER DAZ-045

PROJECT: PA2-RVAAP

INSPECTOR C. Canali

SHEET 1 OF 1

| ELEV (A)             | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)    | REMARKS (G)  |
|----------------------|-----------|--|-----------------------------|----------------------------|------------------------------|--|
|                      |           | Medium brown silty sand, subangular gravel <math>\lt; 10\text{ mm}</math>, moist. Mod $\rightarrow$ low plasticity;    | $\phi.33$ double            | DAZ-045                    | DAZ 35-45<br>G671-50<br>1411 | Extra metal removed<br>Roots removed<br>Stems removed<br>Endbrans removed                                |
|                      |           | Medium brown with streaks of orange mottling (at 2 yr from TD) -- brca cotta. Clay silt with medium to high plasticity | $\phi.34$ Broken zone       | NA                         | DAZ 35-45<br>NA<br>R072-50   | Augered up on Al fuse<br>Some occasional metal fragments<br>Minor sand stone fragments<br>Wire fragments |
|                      |           |  | $\phi.45$ B.Z.              |                            |                              |  |
| <del>8-2005 OC</del> |           |  |                             |                            |                              |  |



|  |  |  |   |                                     |  |
|--|--|--|---|-------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                               |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-100</u>         |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>                   |  | 2. DRILL SUBCONTRACTOR: <u>N/A</u>                                       |   | SHEET: <u>2 of 2</u>                |  |
| 3. PROJECT: <u>DA2-RVAMP</u>                           |  |  | 4. LOCATION: <u>DA2 Demo Area</u>                 |                                     |  |
| 5. NAME OF DRILLER: <u>N/A</u>                         |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u> |                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: |  | 8. HOLE LOCATION: <u>DA-046</u>  |   | 9. SURFACE ELEVATION: <u>N/A</u>    |  |
| <u>SS bowl</u>   |  | <u>3/8" auger bucket</u>   |   | 10. DATE STARTED: <u>7-24-02</u>    |  |
| <u>SS</u>  |  | <u>SS</u>  |   | 11. DATE COMPLETED: <u>7-24-02</u>  |  |
| 12. OVERBURDEN THICKNESS: <u>N/A</u>                   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>                            |   |                                     |  |
| 13. DEPTH DRILLED INTO ROCK: <u>N/A</u>                |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>N/A</u> |   |                                     |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 feet</u>                 |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>                 |   |                                     |  |
| 18. GEOTECHNICAL SAMPLES:                              |  | DISTURBED  |   | UNDISTURBED                         |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>             |  | 20. SAMPLES FOR CHEMICAL ANALYSIS:                                       |   | 21. TOTAL CORE RECOVERY: <u>N/A</u> |  |
| VOC  |  | METALS   |   | OTHER (SPECIFY)                     |  |
|  |  | <u>TEL</u>   |   | <u>Explosives</u>                   |  |
| 22. DISPOSITION OF HOLE:                               |  | 23. SIGNATURE OF INSPECTOR:  |   |                                     |  |
| <u>BACKFILLED</u>                                      |  | <u>MONITORING WELL</u>   |   | <u>C. Canal</u>                     |  |
| <u>8/5/02</u>  |  | <u>8/5/02</u>  |   | <u>COB-1542</u>                     |  |

LOCATION SKETCH/COMMENTS

SCALE:

See page 71 with  
 soil logbook # 1 for  
 location of DA2-046

HTRW DRILLING LOG

HOLE NUMBER DA-016

PROJECT: DA2-RVAMP

INSPECTOR: C. Canell

SHEET OF 1

| ELEV. (A) | DEPTH (B)<br>feet | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | CHEMICAL SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)        |
|-----------|-------------------|---|-----------------------------|-----------------------------|---------------------------|--------------------|
|           | 0.5               | 3 in. Clay, poorly sorted, trace of pebbles, sub angular to angular (1-3 cm), med. to low to med plasticity, med to dk brown, some mottling of a reddish orange | 1.47 ppm                    | N/A                         | DA200-046<br>D673-50      | roots, stems metal |
|           | 1.5               | Same as above   | 4.4 ppm                     | N/A                         | DA200-046<br>D674-50      |                    |
|           | 5.0               |   |                             |                             |                           |                    |
|           | 6.0               |   |                             |                             |                           |                    |
|           | 7.0               |   |                             |                             |                           |                    |
|           | 8.0               |   |                             |                             |                           |                    |
|           | 9.0               |   |                             |                             |                           |                    |
|           | 10.0              |   |                             |                             |                           |                    |
|           | 11.0              |   |                             |                             |                           |                    |
|           | 12.0              |   |                             |                             |                           |                    |
|           | 13.0              |   |                             |                             |                           |                    |
|           | 14.0              |   |                             |                             |                           |                    |
|           | 15.0              |   |                             |                             |                           |                    |
|           | 16.0              |   |                             |                             |                           |                    |
|           | 17.0              |   |                             |                             |                           |                    |
|           | 18.0              |   |                             |                             |                           |                    |
|           | 19.0              |   |                             |                             |                           |                    |
|           | 20.0              |   |                             |                             |                           |                    |
|           | 21.0              |   |                             |                             |                           |                    |
|           | 22.0              |   |                             |                             |                           |                    |
|           | 23.0              |   |                             |                             |                           |                    |
|           | 24.0              |   |                             |                             |                           |                    |
|           | 25.0              |   |                             |                             |                           |                    |
|           | 26.0              |   |                             |                             |                           |                    |
|           | 27.0              |   |                             |                             |                           |                    |
|           | 28.0              |   |                             |                             |                           |                    |
|           | 29.0              |   |                             |                             |                           |                    |
|           | 30.0              |   |                             |                             |                           |                    |



|   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>                              |   | HOLE NUMBER: <u>DAD-047</u>  |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>                                |  | 7. DRILL SUBCONTRACTOR: <u>n/a</u>                       |   | SHEET <u>1</u> OF <u>1</u>   |  |
| 3. PROJECT: <u>DAD-RURAP</u>  |  |  | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>                                      |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:              |  | 8. HOLE LOCATION: <u>DAD-047</u>                         |   | 9. SURFACE ELEVATION: <u>n/a</u>   |  |
| <u>25 blow</u><br><u>25 2' boom</u><br><u>55' 3/8" auger bucket</u> |  | 10. DATE STARTED: <u>7/15/02</u>                         |   | 11. DATE COMPLETED: <u>7/15/02</u>                                       |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>                                |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>            |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>                             |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u> |   | 14. TOTAL DEPTH OF HOLE: <u>3-ft</u>                                     |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |   | UNDISTURBED  |  |
| 19. TOTAL NUMBER OF CORE BOXES                                      |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                        |   | 21. TOTAL CORE RECOVERY  |  |
| <u>See activity log</u>   |  | VOC  |   | METALS   |  |
| <u>8/15/02</u>  |  | MONITORING WELL  |   | OTHER (SPECIFY)  |  |
| 22. DISPOSITION OF HOLE   |  | 23. SIGNATURE OF INSPECTOR                               |   | <u>[Signature]</u>   |  |

LOCATION SKETCH/COMMENTS: See map location page 3 SCALE: \_\_\_\_\_

For location of DAD-047 in the JOE logbook #1



HTRW DRILLING LOG

WOLE NUMBER DAD-247

PROJECT: DAD-RVAP

INSPECTOR: [Signature]

SHEET 1 OF 1

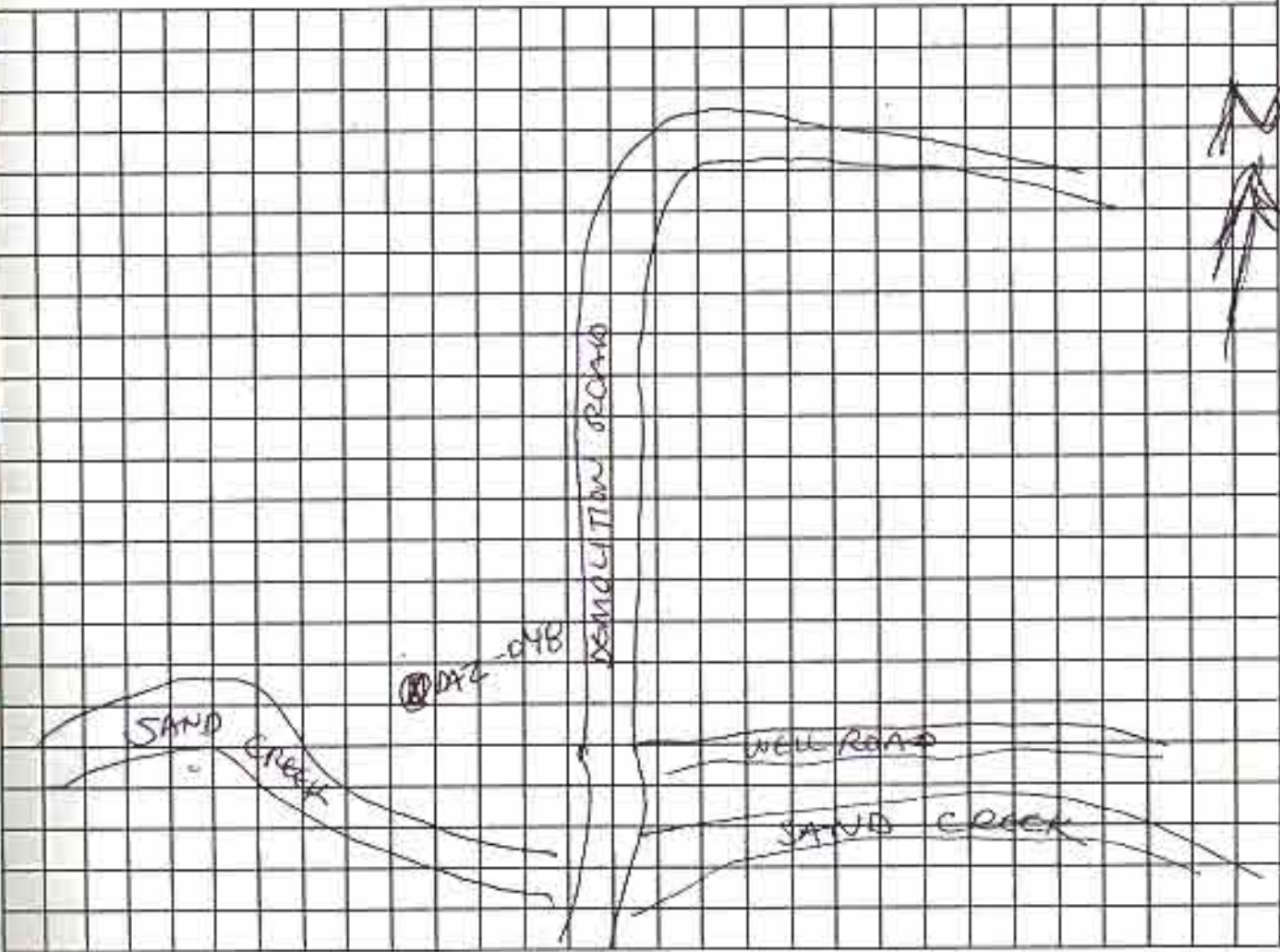
| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)  |
|-----------|-----------|---|-----------------------------|----------------------------|---------------------------|--|
|           | 0         | Silty clay, sandy<br>silty, medium plastic<br>massive, light tan, some<br>- solution marks<br>on fracture face -<br>top 4" very organic<br>rich | 0.33<br>132                 | NA                         | NA<br>NA                  | lots of roots  |
|           | 1         | same as above<br>s.z. 5' 1/2" matrix<br>grades to a silty<br>clay with sub<br>angular sub rounded<br>gravel (2-12 mm) s                         |                             | NA                         | DA247-<br>247<br>K67650   | Ran into blue<br>material that is<br>cons. start with<br>COA1 + CB pits<br>material - brown<br>materials |
|           | 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        |   |                             |                            |                           |  |

COA-2  
247-2

|  |  |  |   |  |  |
|--|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DAZ-048</u>                    |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |   | SHEET: <u>1 of 1</u>                           |  |
| 3. PROJECT: <u>DEMO AREA 2 PHASE II REI</u>  |  |  | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |  |  |
| 5. NAME OF DRILLER: <u>n/A</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>SS bowl</u><br><u>SS - open</u><br><u>SS 3/8" auger/bucket</u> |  | 8. HOLE LOCATION: <u>DAZ-048</u>   |   | 9. SURFACE ELEVATION: <u>n/A</u>               |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |   | 10. DATE STARTED: <u>7-15-02</u>               |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |   | 11. DATE COMPLETED: <u>7-15-02</u>             |  |
| 14. TOTAL DEPTH OF HOLE: <u>ca 3.9' / 2.9'</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>                 |   |  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |   | UNDISTURBED                                    |  |
| 22. SAMPLES FOR CHEMICAL ANALYSIS: <u>See activity log for analysis</u>  |  | VOC  |   | METALS   |  |
| 23. DISPOSITION OF HOLE: <u>Sealed</u>   |  | MONITORING WELL  |   | OTHER (SPECIFY)                                |  |
|  |  |  |   | 25. SIGNATURE OF INSPECTOR: <u>[Signature]</u> |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u>   |  | 21. TOTAL CORE RECOVERY: <u>n/A</u>                                      |   |  |  |

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



### HTRW DRILLING LOG

HOLE NUMBER *DA2-048*

PROJECT: *DA2-EVAP*

INSPECTOR: *SMC*

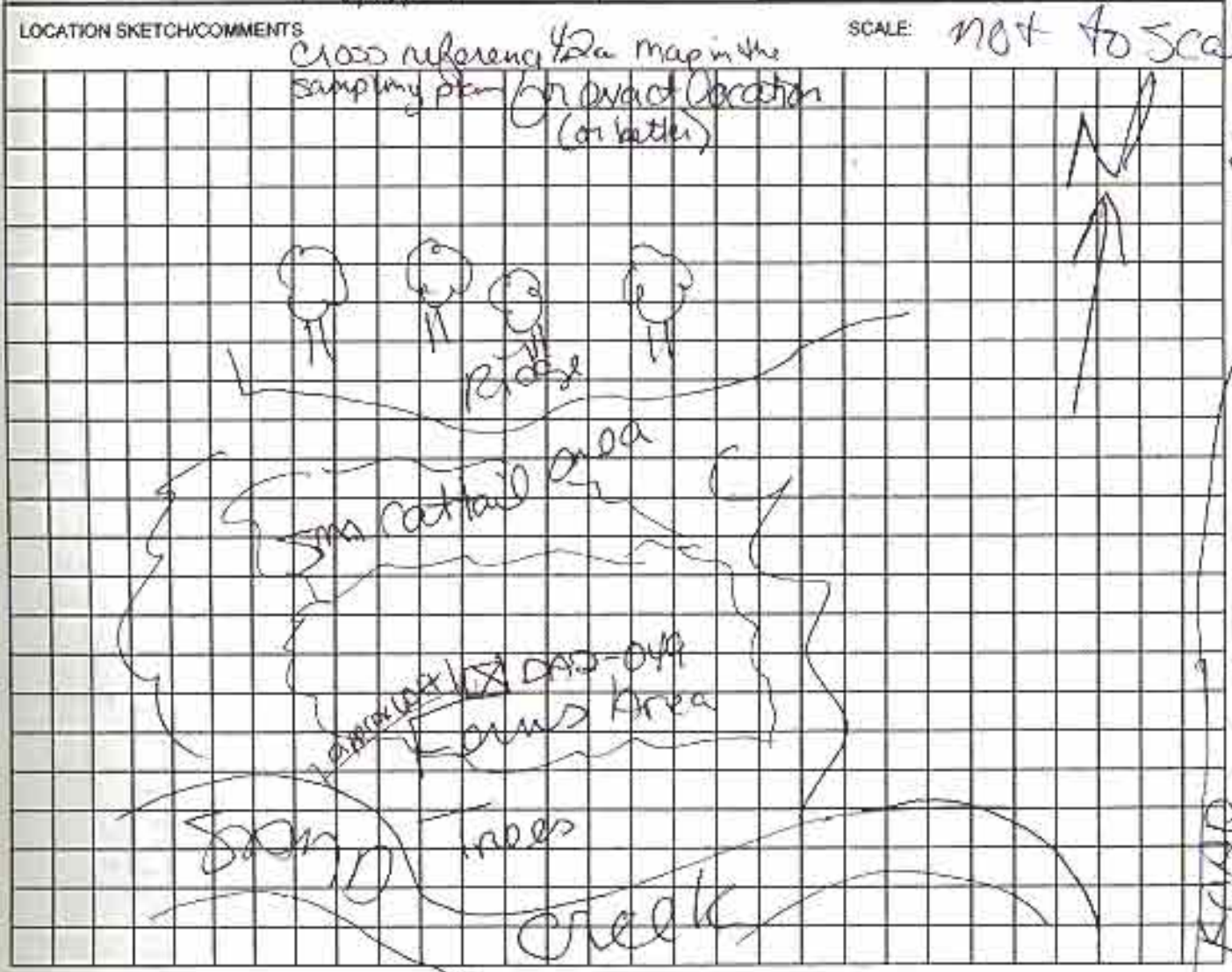
SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS                          | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)    | REMARKS (G) |
|----------|-----------|---|--|----------------------------|------------------------------|-------------|
|          | 1         | <i>Lt. brown clayey silt with some gravel grading into a brown clay. damp. sc</i> | <i>FID<br/>.15<br/>background<br/>.51<br/>sample</i> | <i>N/A</i>                 | <i>DA255-048<br/>0677-50</i> |             |
|          | 2         | <i>Lt Brown sandy silt, few small gravel pieces.</i>                              | <i>FID<br/>.85<br/>sample</i>                        | <i>N/A</i>                 | <i>DA250-048<br/>0678-50</i> |             |
|          | 2.9       | <i>Auger refusal at 2.9 ft</i>  |  |                            |                              |             |
|          | 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       |   |  |                            |                              |             |

*815  
CC*



|   |  |  |   |  |                                     |
|---|--|--|---|--|-------------------------------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-049</u>                |                                     |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                                       |   | SHEET <u>1</u> OF <u>1</u>                 |                                     |
| 3. PROJECT: <u>DA2-RVAP</u>   |  |  | 4. LOCATION: <u>Demo<sup>2</sup> Grounds Area</u> |  |                                     |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |  |                                     |
| 7. ROSS AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><u>33 bowl</u><br><u>33 spoon</u><br><u>33 3 1/2" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-049</u>   |   | 9. SURFACE ELEVATION: <u>n/a</u>           |                                     |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   | 10. DATE STARTED: <u>8-1-02</u>            |                                     |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   | 11. DATE COMPLETED: <u>8-1-02</u>          |                                     |
| 14. TOTAL DEPTH OF HOLE: <u>3ft</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |   |  |                                     |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  | UNDISTURBED                                       | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u> |                                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC  | METALS  | OTHER (SPECIFY)                            | OTHER (SPECIFY)                     |
| <u>See activity log for analysis</u>  |  |  |   |  |                                     |
| 22. DISPOSITION OF HOLE   |  | BACKFILLED   | MONITORING WELL                                   | OTHER (SPECIFY)                            | 21. TOTAL CORE RECOVERY: <u>n/a</u> |
| <u>5/5/02</u>   |  |  |   |  | <u>E. Canall</u>                    |



84

HTRW DRILLING LOG

HOLE NUMBER ~~DA2-049~~ 84

PROJECT: ~~DA2-049~~ DAD-RVAP

INSPECTOR C. Canali

SHEET 1 OF 1

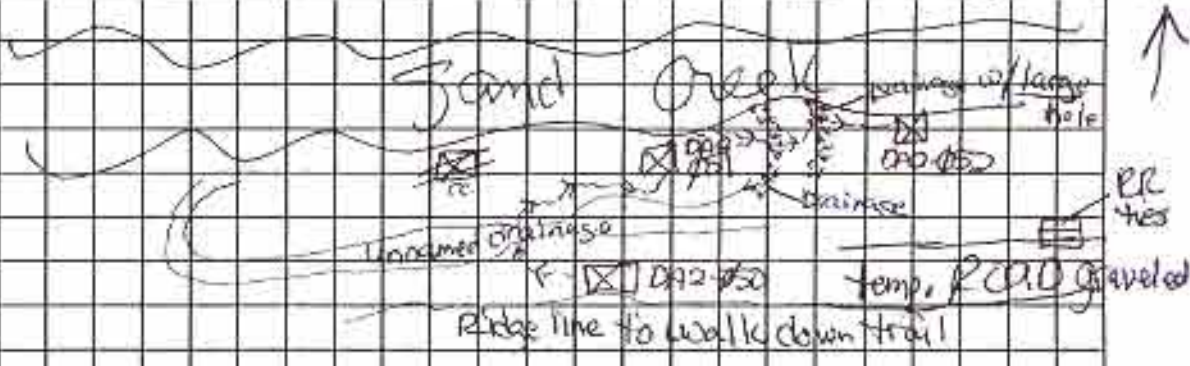
| ELEV.<br>(A) | DEPTH<br>(B) | DESCRIPTION OF MATERIALS<br>(C)   | HEADSPACE<br>SCREENING<br>RESULTS | GEO TECH<br>SAMPLE<br>OR CORE BOX | ANALYTICAL<br>SAMPLE NO<br>(F) | REMARKS<br>(G) |
|--------------|--------------|---|-----------------------------------|-----------------------------------|--------------------------------|----------------|
|              | 6"           | dk brown damp, silty clay with trace sand, lots roots orange mottling                     | not available                     | n/A                               | DA250-049-079-50               |                |
|              | 14"          | H. brown, moist, silty sand well sorted, orange mottling, lots roots                      | not available                     | n/A                               | DA250-049-080-50               |                |
|              | 21"          | H. brown orange, well sorted clay-sand, gray mottling, moist to wet, low to no plasticity | not available                     | n/A                               | DA250-049-081-50               |                |
|              | 26"          | H. gray sand with trace of silty clay orange mottling, well sorted low to no plasticity   |                                   |                                   |                                |                |
|              |              | A-20-10 cc  |                                   |                                   |                                |                |



|  |  |                                       |   |  |  |
|--|--|---------------------------------------|---|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>           |   | HOLE NUMBER<br><u>DA2-050</u>              |  |
| 1. COMPANY NAME:<br><u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR:<br><u>N/A</u> |   | DEPT: <u>101</u>                           |  |
| 3. PROJECT: <u>DA2-EVAMP</u>   |  |                                       | 4. LOCATION: <u>Demo 2 Ground Area</u>                                      |  |  |
| 5. NAME OF DRILLER: <u>N/A</u>   |  |                                       | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u>                           |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><u>55 hand</u><br><u>55 spoon</u><br><u>55 3 1/2" auger bucket</u> |  |                                       | 8. HOLE LOCATION: <u>DA2-050</u>  |  |  |
|  |  |                                       | 9. SURFACE ELEVATION: <u>n/a</u>  |  |  |
|  |  |                                       | 10. DATE STARTED: <u>8-1-05</u>   |  | 11. DATE COMPLETED: <u>8-1-05</u>              |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>   |  |                                       | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                               |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>  |  |                                       | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>n/a</u> |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>   |  |                                       | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>n/a</u>                 |  |  |
| 16. GEOTECHNICAL SAMPLES   |  | DISTURBED                             | UNDISTURBED   | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u> |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS:<br><u>So activity log</u>   |  | VOC                                   | METALS  | OTHER (SPECIFY)                            | OTHER (SPECIFY)                                |
| 22. DISPOSITION OF HOLE:<br><u>So activity log</u>   |  | BACKFILLED<br><u>8/3/05</u>           | MONITORING WELL   | OTHER (SPECIFY)                            | 23. SIGNATURE OF OPERATOR:<br><u>A. Canall</u> |
| 21. TOTAL CORE RECOVERY: <u>n/a</u>  |  |                                       |   |  |  |

LOCATION SKETCH/COMMENTS

SCALE: not to scale







|   |  |                                       |  |                              |  |
|---|--|---------------------------------------|--|------------------------------|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>           |  | HOLE NUMBER<br><u>DAD-05</u> |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR:<br><u>n/a</u> |  | SHEET <u>1 of 1</u>          |  |
| 3. PROJECT: <u>DAD-EVANA</u>  |  |                                       | 4. LOCATION: <u>Demo 2 Ground Area</u>                                     |                              |  |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |                                       | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                          |                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>55 bowl</u><br><u>55 spoon</u><br><u>55 3/4" auger bucket</u> |  |                                       | 8. HOLE LOCATION <u>DAD-051</u>  |                              |  |
|   |  |                                       | 9. SURFACE ELEVATION <u>n/a</u>  |                              |  |
|   |  |                                       | 10. DATE STARTED <u>8/1/00</u>   |                              | 11. DATE COMPLETED <u>8-1-00</u>               |
| 12. OVERBURDEN THICKNESS  |  |                                       | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                               |                              |  |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>  |  |                                       | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |                              |  |
| 14. TOTAL DEPTH OF HOLE <u>3 ft</u>   |  |                                       | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>n/a</u>                |                              |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED                             | UNDISTURBED  |                              | 19. TOTAL NUMBER OF CORE BOXES <u>n/a</u>      |
| 20. SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC                                   | METALS   | OTHER (SPECIFY)              | OTHER (SPECIFY)                                |
| <u>See activity log for analysis</u>  |  |                                       |  |                              |  |
| 22. DEPOSITION OF HOLE  |  | BACKFILLED                            | MONITORING WELL  | OTHER (SPECIFY)              | 21. TOTAL CORE RECOVERY <u>n/a</u>             |
| <u>n/a</u>  |  | <u>8/5/00</u>                         |  |                              | 23. SIGNATURE OF BOSS/LOGGERS<br><u>Canall</u> |

LOCATION SKETCH/COMMENTS

SCALE:

See page 71 for  
Location of DAD-05  
at the site logbook #2





|  |  |  |   |  |  |
|--|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>   |   | HOLE NUMBER <u>DAD-050</u>                 |  |
| 1. COMPANY NAME <u>Spec Pro Inc</u>                              |  | 2. DRILL SUBCONTRACTOR <u>n/a</u>  |   | SHEET <u>1</u> of <u>1</u>                 |  |
| 3. PROJECT: <u>DAD-RVAAP</u>                                     |  |  | 4. LOCATION <u>Demo 2 Grounds Area</u>            |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>                                   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT            |  | 8. HOLE LOCATION: <u>DAD-050</u>   |   |  |  |
| <u>55 bowl</u><br><u>55 spoon</u><br><u>55 3/8" auger bucket</u> |  | 9. SURFACE ELEVATION: <u>n/a</u>   |   |  |  |
|  |  | 10. DATE STARTED: <u>8-1-02</u>  |   | 11. DATE COMPLETED: <u>8-1-02</u>          |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>                             |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>                          |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>                             |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>                 |   |  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |   | UNDISTURBED                                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                |  | VOC  |   | METALS                                     |  |
| <u>see activity log for analysis</u>                             |  |  |   | OTHER (SPECIFY)                            |  |
| 22. DISPOSITION OF HOLE  |  | BACKFILLED   |   | MONITORING WELL                            |  |
| <u>8/5/02</u>  |  |  |   | OTHER (SPECIFY)                            |  |
|  |  |  |   | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u> |  |
|  |  |  |   | 21. TOTAL CORE RECOVERY: <u>n/a</u>        |  |
| 23. SIGNATURE OF INSPECTOR:                                      |  |  |   | <u>C. Amale</u>                            |  |

LOCATION SKETCH/COMMENTS

SCALE:

See page 71 for  
 location of DAD-050  
 in the soil log book #2

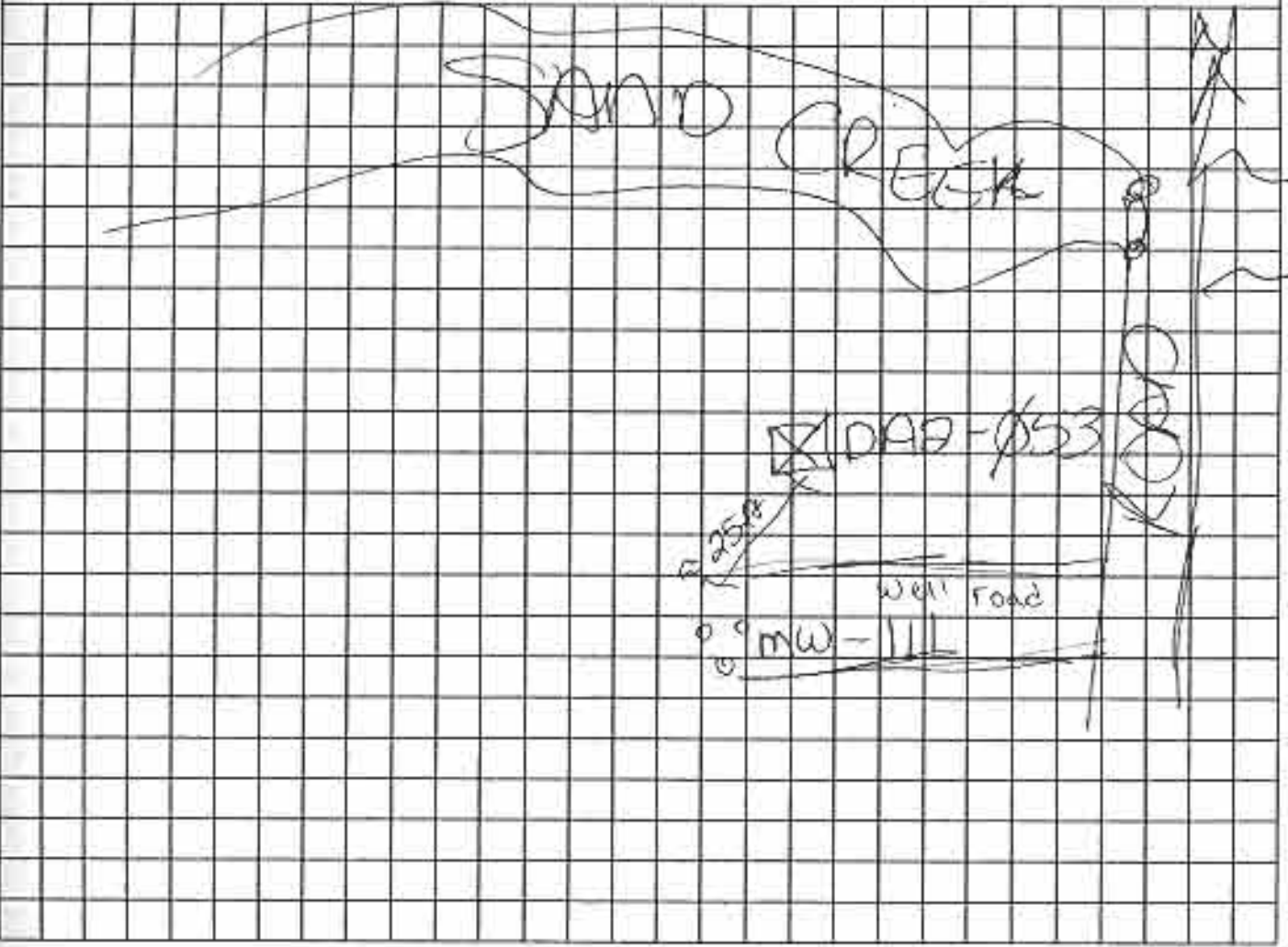




|   |  |                               |  |  |                 |
|---|--|-------------------------------|--|--|-----------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: Louisville          |  | HOLE NUMBER<br>DA2-053                 |                 |
| 1. COMPANY NAME<br>Spec Pro Inc   |  | 2. DRILL SUBCONTRACTOR<br>n/A |  | SHEET 1 of 1                           |                 |
| 3. PROJECT: DA2-EVAAP   |  |                               | 4. LOCATION: Demo 2 Grounds area                                     |  |                 |
| 5. NAME OF DRILLER: n/A   |  |                               | 6. MANUFACTURERS DESIGNATION OF DRILL: n/A                           |  |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>SS hand<br>SS 3/8" spoon<br>SS 3/2" auger bucket |  |                               | 8. HOLE LOCATION: DA2-053  |  |                 |
|   |  |                               | 9. SURFACE ELEVATION: n/A  |  |                 |
|   |  |                               | 10. DATE STARTED: 8-1-02   | 11. DATE COMPLETED: 8-1-02             |                 |
| 12. OVERBURDEN THICKNESS: n/A   |  |                               | 15. DEPTH GROUNDWATER ENCOUNTERED: n/A                               |  |                 |
| 13. DEPTH DRILLED INTO ROCK: n/A  |  |                               | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br>n/A |  |                 |
| 14. TOTAL DEPTH OF HOLE: 3 ft   |  |                               | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br>n/A                 |  |                 |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED                     | UNDISTURBED  | 19. TOTAL NUMBER OF CORE BOXES: n/A    |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>500 cc chert log for analysis  |  | VOC                           | METALS   | OTHER (SPECIFY)                        | OTHER (SPECIFY) |
| 22. DISPOSITION OF HOLE<br>backfilled 8/3/02  |  | MONITORING WELL               | OTHER (SPECIFY)  | 23. SIGNATURE OF RESPECTOR<br>C. Small |                 |
| 21. TOTAL CORE RECOVERY: n/A  |  |                               |  |  |                 |

LOCATION SKETCH/COMMENTS

SCALE: not to scale





# HTRW DRILLING LOG

HOLE NUMBER **AD-053**

PROJECT: **DAD - EVAP**

INSPECTOR: **C. Small**

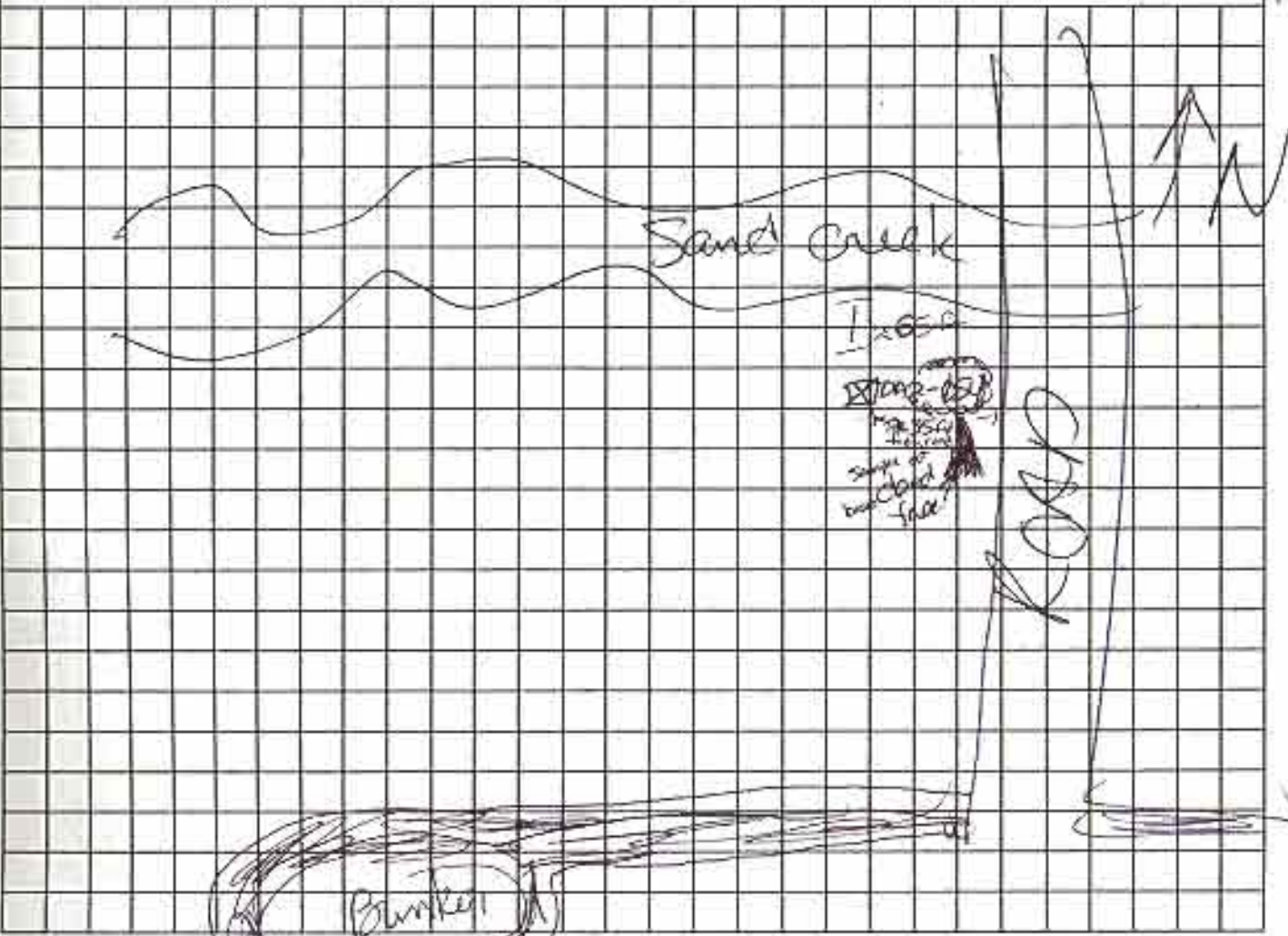
SHEET 1 OF 1

| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G) |
|-----------|-----------|--|-----------------------------|----------------------------|--------------------------|-------------|
|           | 0         | top 1-2" organic roots, jets<br>carbonaceous silty sand full<br>trace of clay, low compaction<br>gravel, siltstone & sandstone fragments<br>(-40m) sub rounded to angular<br>med. yellow brown, mottled clay<br>diff | not available               | n/A                        | DAD-053<br>0688-50       |             |
|           | 2         | Same as above<br>(probable backfilled<br>beam area)  | not available               | n/A                        | DAD-053<br>0688-50       |             |
|           | 3         |  |                             |                            |                          |             |
|           | 4         |  |                             |                            |                          |             |
|           | 5         |  |                             |                            |                          |             |
|           | 6         |  |                             |                            |                          |             |
|           | 7         |  |                             |                            |                          |             |
|           | 8         |  |                             |                            |                          |             |
|           | 9         |  |                             |                            |                          |             |
|           | 10        |  |                             |                            |                          |             |

8-20-03  
CC

|   |  |                                    |  |  |                                     |
|---|--|------------------------------------|--|--|-------------------------------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Courtsville</u>       |  | HOLE NUMBER: <u>DAD-154</u>                  |                                     |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u> |  | SHEET: <u>1 of 1</u>                         |                                     |
| 3. PROJECT: <u>DAD-RVAAP</u>  |  |                                    | 4. LOCATION: <u>Demo 2 grounds area</u>                                  |  |                                     |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |                                    | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                        |  |                                     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>33 bowl, 33 pan, 35" auger bucket</u> |  |                                    | 8. HOLE LOCATION: <u>DAD-154</u>   |  |                                     |
|   |  |                                    | 9. SURFACE ELEVATION: <u>n/a</u>   |  |                                     |
|   |  |                                    | 10. DATE STARTED: <u>7-31-00</u>   |  | 11. DATE COMPLETED: <u>7-31-00</u>  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  |                                    | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |  |                                     |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  |                                    | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |                                     |
| 14. TOTAL DEPTH OF HOLE: <u>3-ft</u>  |  |                                    | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |  |                                     |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED                          | UNDISTURBED  | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>   |                                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>see activity log for analysis</u>                         |  | VOC                                | METALS   | OTHER (SPECIFY)                              | OTHER (SPECIFY)                     |
| 22. DISPOSITION OF HOLE: <u>see activity log for analysis</u>                                   |  | BAGGED                             | MONITORING WELL  | OTHER (SPECIFY)                              | 21. TOTAL CORE RECOVERY: <u>n/a</u> |
|   |  |                                    |  | 23. SIGNATURE OF INSPECTOR: <u>C. Canell</u> |                                     |

LOCATION SKETCH/COMMENTS: SCALE: not to scale



### HTRW DRILLING LOG

HOLE NUMBER DA2054  
SHEET 1 OF 1

PROJECT: DA2-RVAAO

INSPECTOR: C. Canall

| ELEV. (A)     | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)   |
|---------------|-----------|---|-----------------------------|-----------------------------|---------------------------|---|
|               | 0.00      | Silty clay sand, well sorted, trace pebbles (1-4mm) subangular to angular, moist, low plasticity med brown    | not available               | N/A                         | DA2054-01<br>DA2054-02    | 1 hole = 10" refusal<br>2 hole = 1 ft OE<br>3 hole = 6" refusal due to lg. tree roots and rocks present |
|               | 1.00      | Color change to light tan brown, trace subangular to subangular. (5-30mm) pebbles                             | not available               | N/A                         | DA2054-03<br>DA2054-04    |   |
|               | 2.00      | Same as above   |                             |                             |                           |   |
|               | 3.00      | Clay silt, trace sandstone fragments, some orange mottling, light tan brown angular to subangular (1-4mm) med |                             |                             |                           | frag  |
|               | 4.00      | Silty clay, well sorted, orange and gray mottled, wet to moist low plasticity                                 |                             |                             |                           |   |
| 8-00-05<br>ce |           |   |                             |                             |                           |   |



|   |  |                                      |  |   |                                    |
|---|--|--------------------------------------|--|---|------------------------------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>          |  | HOLE NUMBER<br><u>DA2-055</u>             |                                    |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR<br><u>n/A</u> |  | SHEET <u>1</u> of <u>1</u>                |                                    |
| 3. PROJECT <u>DA2-RVADP</u>   |  |                                      | 4. LOCATION <u>Demo grounds area</u>                                       |   |                                    |
| 5. NAME OF DRILLER <u>n/A</u>   |  |                                      | 6. MANUFACTURERS DESIGNATION OF DRILL <u>n/A</u>                           |   |                                    |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>55 hand</u><br><u>55 SPDM</u><br><u>55 3/8" Duro bucket</u> |  |                                      | 8. HOLE LOCATION <u>DA2-055</u>  |   |                                    |
|   |  |                                      | 9. SURFACE ELEVATION <u>n/A</u>  |   |                                    |
|   |  |                                      | 10. DATE STARTED <u>7-31-02</u>  |   | 11. DATE COMPLETED <u>7-31-02</u>  |
| 12. OVERBURDEN THICKNESS <u>n/A</u>   |  |                                      | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/A</u>                               |   |                                    |
| 13. DEPTH DRILLED INTO ROCK <u>n/A</u>  |  |                                      | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/A</u> |   |                                    |
| 14. TOTAL DEPTH OF HOLE <u>3 ft</u>   |  |                                      | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/A</u>                 |   |                                    |
| 15. GEOTECHNICAL SAMPLES  |  | DISTURBED                            | UNDISTURBED  | 19. TOTAL NUMBER OF CORE BOXES <u>n/A</u> |                                    |
| 20. SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC                                  | METALS   | OTHER (SPECIFY)                           | OTHER (SPECIFY)                    |
| <u>see activity log for analysis</u>  |  |                                      |  |   |                                    |
| 22. DISPOSITION OF HOLE   |  | SAG FILLED                           | MONITORING WELL  | OTHER (SPECIFY)                           | 21. TOTAL CORE RECOVERY <u>n/A</u> |
| <u>n/A</u>  |  | <u>7/31/02</u>                       |  |   | <u>Canall</u>                      |

LOCATION SKETCH/COMMENTS SCALE:

see page 63 for location DA2-055 in the soil logbook #12

| HTRW DRILLING LOG  |           |   |                                  |                            |  | HOLE NUMBER            |
|--------------------|-----------|---|----------------------------------|----------------------------|--|------------------------|
| PROJECT: DAD-RVADP |           | INSPECTOR: C. Cornell   |                                  |                            | DAD-055  |                        |
| ELEV. (A)          | DEPTH (F) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS      | GEOTECH. SAMPLE OR COREBOX | ANALYTICAL SAMPLE NO. (F)                          | REMARKS (G)            |
|                    | 4         | Silty sand, med. brown, trace rounded to subangular (5-30µm) pebbles, moist, poorly sorted                          | 0.55 ppm metals<br>1.18 ppm soil | n/A                        | DAD055-055<br>DAD055-50<br>DAD055-055<br>DAD055-50 | top 4" organics, roots |
|                    | 14        | Same as above silty-clay mottled med. orange brown and gray moist, low to med plasticity trace of pebbles (4-20µm)  | 1.04 ppm metals                  | n/A                        | DAD055-055<br>DAD055-50                            |                        |
|                    | 20        | grading into 20% sandstone fragments, breaking into grains (5-50µm) med brown w/ orange, moist                      | 1.82 ppm                         |                            | DAD055-055<br>DAD055-50                            |                        |
|                    | 25        | clay silt, moist to wet, med brown w/ orange and gray mottling, 30% sandstone angular to subangular, low plasticity |                                  |                            |  |                        |
|                    | 30        |   |                                  |                            |  |                        |
|                    | 35        |   |                                  |                            |  |                        |
|                    | 40        |   |                                  |                            |  |                        |
|                    | 45        |   |                                  |                            |  |                        |
|                    | 50        |   |                                  |                            |  |                        |
|                    | 55        |   |                                  |                            |  |                        |
|                    | 60        |   |                                  |                            |  |                        |
|                    | 65        |   |                                  |                            |  |                        |
|                    | 70        |   |                                  |                            |  |                        |
|                    | 75        |   |                                  |                            |  |                        |
|                    | 80        |   |                                  |                            |  |                        |
|                    | 85        |   |                                  |                            |  |                        |
|                    | 90        |   |                                  |                            |  |                        |
|                    | 95        |   |                                  |                            |  |                        |
|                    | 100       |   |                                  |                            |  |                        |

8-28-05  
DAD-055  
CC

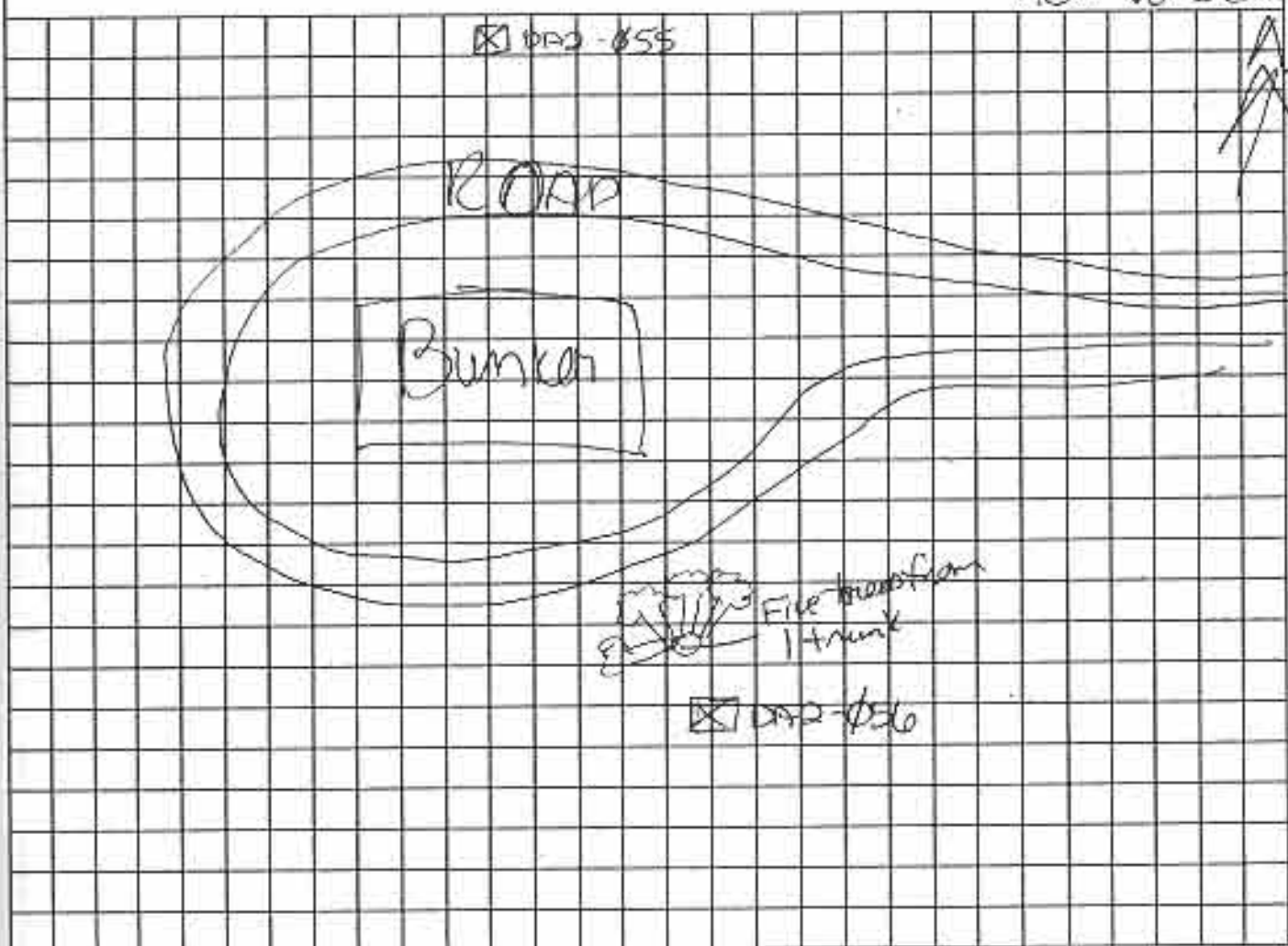


|   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>                                |   | HOLE NUMBER: <u>DA2-056</u>  |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                         |   | SHEET <u>1 of 1</u>  |  |
| 3. PROJECT: <u>MD-EVAP</u>  |  |  | 4. LOCATION: <u>Demo 2 Ground Area</u>            |  |  |
| 5. NAME OF DRILLER: <u>n/A</u>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>52 bowl</u><br><u>55 spoon</u><br><u>55 3/8" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-056</u>                           |   | 9. SURFACE ELEVATION: <u>n/A</u>   |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>  |  | 10. DATE STARTED: <u>7-31-02</u>                           |   | 11. DATE COMPLETED: <u>7-31-02</u>                                       |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>              |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>   |   |  |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |   | UNDISTURBED  |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u>  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>See activity log</u> |   | 21. TOTAL CORE RECOVERY: <u>n/A</u>                                      |  |
| 22. DISPOSITION OF HOLE: <u>Backfilled 8/31/02</u>  |  | 23. IDENTIFIER OF INSPECTOR: <u>Canale</u>                 |   |  |  |

LOCATION SKETCH/COMMENTS

SCALE:

not to scale





HTRW DRILLING LOG

HOLE NUMBER DAD-056

PROJECT: DAD - EVAAP

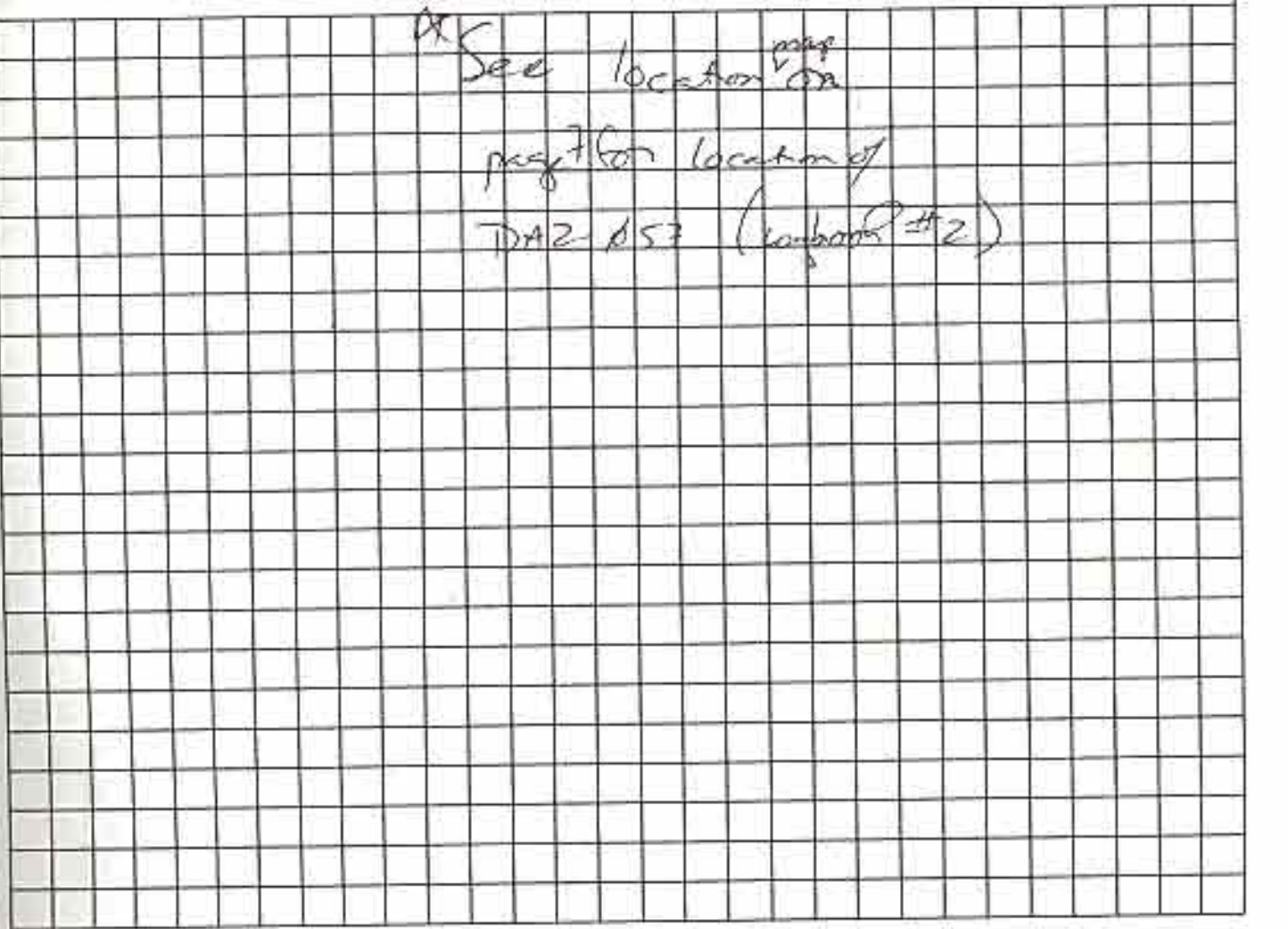
INSPECTOR C. Canal

SHEET OF /

| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCRIBING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)       | REMARKS (G)                        |
|-----------|-----------|--|----------------------------|----------------------------|---------------------------------|------------------------------------|
|           | 0"        | Organics with silt, well graded, stems, earthworms, roots dk. brown  | not available              | n/a                        | DAD55-56<br>DAD3-50             | 70% organics report in all 3 holes |
|           | 8"        | 5-10mm sand, well sorted, trace rock<br>5-10mm sub angular to angular, moist to dry<br>H to med brown with occasional mottling of orange and grey                  |                            |                            |                                 |                                    |
|           | 1.0'      | Same as above  | not available              | n/a                        | DAD50-56<br>DAD94-50<br>+ split |                                    |
|           | 2.6'      | cc 2-3-82<br>Same as above but grades with 20% gravel, sub angular to sub rounded silt clay sand, H to med brown w/ orange and grey mottling, moist low plasticity |                            |                            |                                 |                                    |
|           | 8-20-85   |  |                            | cc                         |                                 |                                    |

|   |  |   |  |                                       |  |
|---|--|---|--|---------------------------------------|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: Louisville  |  | HOLE NUMBER: DA2-057                  |  |
| 1. COMPANY NAME: Spec Pro Inc   |  | 2. DRILL SUBCONTRACTOR: n/a                                       |  | SHEET 1 of 1                          |  |
| 3. PROJECT: DA2-RVAPP   |  |   | 4. LOCATION: Demo 2 Grounds Area           |                                       |  |
| 5. NAME OF DRILLER: n/a   |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: n/a |                                       |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br>53 spoon<br>39 barrel<br>35 3/4" auger bucket |  | 8. HOLE LOCATION: DA2-057   |  | 9. SURFACE ELEVATION: n/a             |  |
| 12. OVERBURDEN THICKNESS: n/a   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: n/a                            |  | 10. DATE STARTED: 7-29-02             |  |
| 13. DEPTH DRILLED INTO ROCK: n/a  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a |  | 11. DATE COMPLETED: 7-29-02           |  |
| 14. TOTAL DEPTH OF HOLE: 3 ft   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a                 |  | 19. TOTAL NUMBER OF CORE BOXES: n/a   |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED   |  | UNDISTURBED                           |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: See activity log for analysis  |  | VOC   |  | METALS                                |  |
| 22. DISPOSITION OF HOLE: drilled  |  | MONITORING WELL   |  | OTHER (SPECIFY):                      |  |
|   |  |   |  | 21. SIGNATURE OF INSPECTOR: R. J. Mul |  |

LOCATION SKETCH/COMMENTS SCALE:







|  |  |  |   |   |  |
|--|--|--|---|---|--|
| <b>HTRW DRILLING LOG</b>                               |  | DISTRICT <u>Louisville</u>   |   | HOLE NUMBER <u>DAD-058</u>                    |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>                   |  | 2. DRILL SUBCONTRACTOR: <u>N/A</u>                                       |   | SHEET <u>1 of 1</u>                           |  |
| 3. PROJECT: <u>DAD-RVAAP</u>                           |  |  | 4. LOCATION: <u>Demo 2 Ground Area</u>            |   |  |
| 5. NAME OF DRILLER: <u>N/A</u>                         |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u> |   |  |
| 7. SIZES AND TYPES OF GRILLING AND SAMPLING EQUIPMENT: |  | 8. HOLE LOCATION: <u>DAD-058</u>   |   |   |  |
| <u>30 Blow</u>   |  | 9. SURFACE ELEVATION: <u>N/A</u>   |   |   |  |
| <u>30 spin</u>   |  |  |   |   |  |
| <u>30 3 1/2" Auger bucket</u>                          |  | 10. DATE STARTED: <u>7-05-02</u> 11. DATE COMPLETED: <u>7-05-02</u>      |   |   |  |
| 12. OVERBURDEN THICKNESS: <u>N/A</u>                   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>                            |   |   |  |
| 13. DEPTH DRILLED INTO ROCK: <u>N/A</u>                |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>N/A</u> |   |   |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>                   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>                 |   |   |  |
| 18. GEOTECHNICAL SAMPLES                               |  | DISTURBED  |   | UNDISTURBED                                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS:                     |  | VOC  |   | METALS  |  |
| <u>see activity log for analysis</u>                   |  |  |   | OTHER (SPECIFY)                               |  |
| 22. DISPOSITION OF HOLE:                               |  | SACFILLED  |   | MONITORING WELL                               |  |
| <u>8/5/02</u>  |  |  |   | 21. SIGNATURE OF INSPECTOR: <u>C. Carroll</u> |  |

LOCATION SKETCH/COMMENTS SCALE:

See page 99  
for sample location  
of DAD-058 in the  
soil logbook #1

# HTRW DRILLING LOG

HOLE NUMBER DA258

PROJECT: DA2-EVAP

INSPECTOR: C. Small

SHEET 1 OF 1

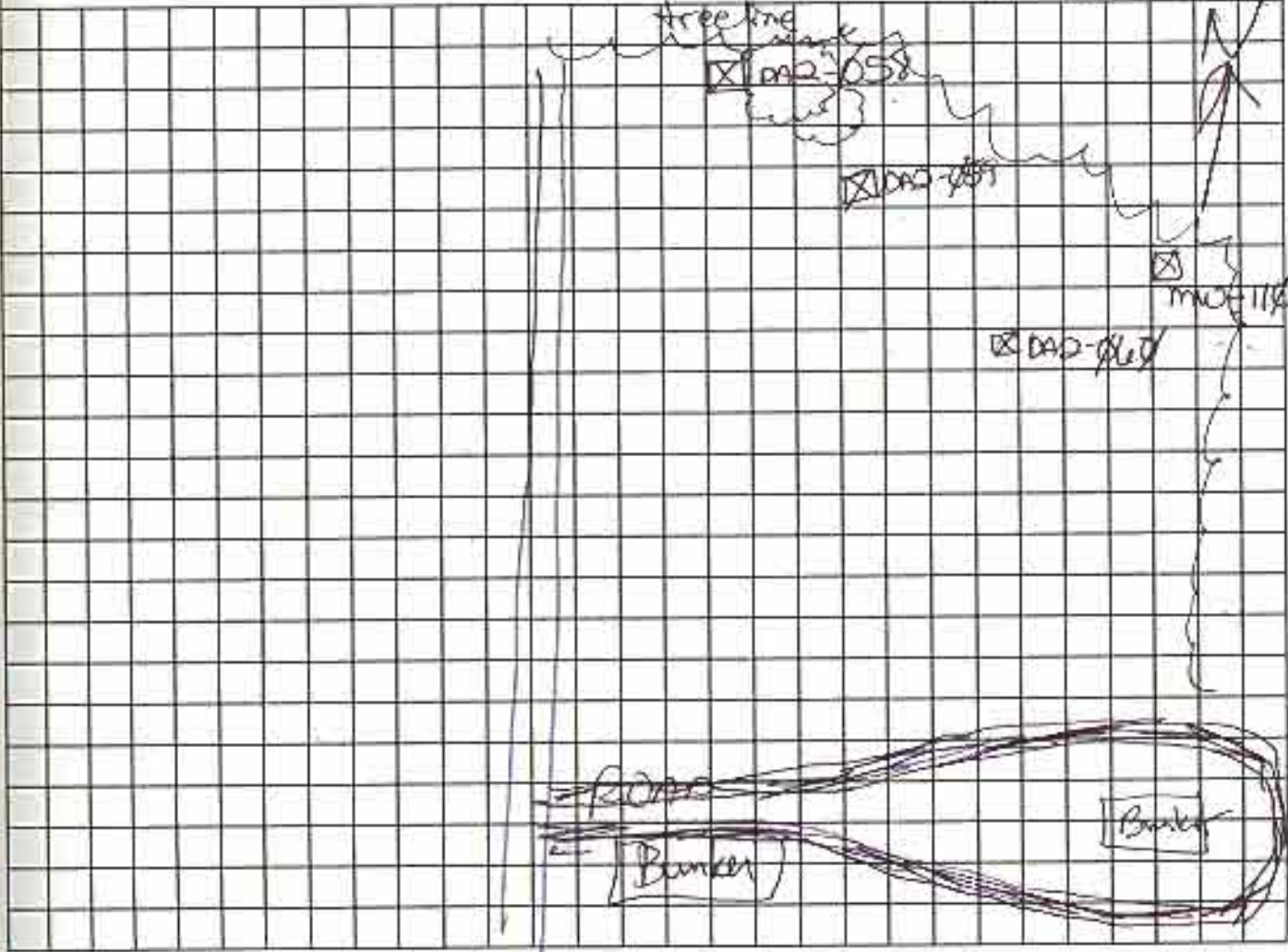
| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)  |
|----------|-----------|---|-----------------------------|----------------------------|---------------------------|--|
|          | 0.00      | 2.5" silty clay, poorly sorted, gravel to cobble frags - some are in angularity - total 25% coarse. some with low plasticity, some staining with brownish grey mottling | 2.87 ppm                    | N/A                        | DA258-058<br>0697-50      | 5" - 10" gradient with organic with lot of roots, stems, plant remains |
|          | 1.00      | Angular to sub-angular rocks with sizes ranging to 2" - 3". Silty clay - some calcareous  | 2.67 ppm                    | N/A                        | DA258-058<br>0698-50      | no organic   |
|          | 10.00     |   |                             |                            |                           |  |
|          | 15.00     |   |                             |                            |                           |  |
|          | 20.00     |   |                             |                            |                           |  |
|          | 25.00     |   |                             |                            |                           |  |
|          | 30.00     |   |                             |                            |                           |  |
|          | 35.00     |   |                             |                            |                           |  |
|          | 40.00     |   |                             |                            |                           |  |
|          | 45.00     |   |                             |                            |                           |  |
|          | 50.00     |   |                             |                            |                           |  |
|          | 55.00     |   |                             |                            |                           |  |
|          | 60.00     |   |                             |                            |                           |  |
|          | 65.00     |   |                             |                            |                           |  |
|          | 70.00     |   |                             |                            |                           |  |
|          | 75.00     |   |                             |                            |                           |  |
|          | 80.00     |   |                             |                            |                           |  |
|          | 85.00     |   |                             |                            |                           |  |
|          | 90.00     |   |                             |                            |                           |  |
|          | 95.00     |   |                             |                            |                           |  |
|          | 100.00    |   |                             |                            |                           |  |

8-15-05  
CS



|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT<br>Louisville   |  | HOLE NUMBER<br>DA2-059                   |  |
| 1. COMPANY NAME<br>Jax Pro Inc   |  | 2. DRILL SUBCONTRACTOR<br>N/A  |  | DEPT. L of                               |  |
| 3. PROJECT: DA2-RVAAP  |  |  | 4. LOCATION: Demo 2 Ground Area            |  |  |
| 5. NAME OF DRILLER: N/A  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: N/A |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>55 Bowl<br>55 spoon<br>55 3/8" auger bucket |  | 8. HOLE LOCATION: DA2-059  |  | 9. SURFACE ELEVATION: N/A                |  |
| 12. OVERBURDEN THICKNESS: N/A  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: N/A                               |  | 11. DATE COMPLETED: 7-25-02              |  |
| 13. DEPTH DRILLED INTO ROCK: N/A   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br>N/A |  | 10. DATE STARTED: 7-25-02                |  |
| 14. TOTAL DEPTH OF HOLE: 3 ft  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br>N/A                 |  |  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |  | UNDISTURBED                              |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>SOP activity log for analysis                                   |  | MOC  |  | METALS                                   |  |
| 22. DISPOSITION OF HOLE<br>8/5/02  |  | MONITORING WELL  |  | OTHER (SPECIFY)                          |  |
|  |  |  |  | 19. TOTAL NUMBER OF CORE BOXES: N/A      |  |
|  |  |  |  | 21. TOTAL CORE RECOVERY                  |  |
|  |  |  |  | 23. SIGNATURE OF INSPECTOR<br>C. Carroll |  |

LOCATION SKETCH/COMMENTS SCALE: not to scale





### HTRW DRILLING LOG

HOLE NUMBER **DA2-057**

PROJECT: **DA2-RVAAP**

INSPECTOR: **C. Carroll**

SHEET **of 1**

| ELEV (A)              | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GROUPEX SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)                      | REMARKS (G)  |
|-----------------------|-----------|---|-----------------------------|----------------------------|--|--------------|
|                       | 0.0       | Silt/clay-silt, poor sorted, some mass, low to med plasticity<br>Redden-brown mottled w/ gray | 1.15 ppm                    | N/A                        | DA2-057-001-50                                 | roots, stems |
|                       | 1.0       | Same as above but pebbles start appearing at 1.5 angular to subangular (D <sub>max</sub> )    | 1.33 ppm                    | N/A                        | DA2-057-002-50<br><del>001-50</del><br>+ split |              |
| <p>8-13-02<br/>CC</p> |           |   |                             |                            |  |              |

|  |  |                                    |  |  |  |
|--|--|------------------------------------|--|--|--|
| <b>HTRW DRILLING LOG</b>                               |  | DISTRICT: <u>Louisville</u>        |  | HOLE NUMBER: <u>DA2-060</u>                    |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>                   |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u> |  | SHEET: <u>1 of 1</u>                           |  |
| 3. PROJECT: <u>DA2 - RVAAP</u>                         |  |                                    | 4. LOCATION: <u>Demo Ground 2 Area</u>                                   |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>                         |  |                                    | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u>                        |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: |  | 8. HOLE LOCATION: <u>DA2-060</u>   |  |  |  |
| <u>SS bowl</u>   |  | 9. SURFACE ELEVATION: <u>n/a</u>   |  |  |  |
| <u>SS spoon</u>  |  | 10. DATE STARTED: <u>7-29-02</u>   |  |  |  |
| <u>35 3/2" auger bucket</u>                            |  | 11. DATE COMPLETED: <u>7-29-02</u> |  |  |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>                   |  |                                    | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>                |  |                                    | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>3ft</u>                    |  |                                    | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |  |  |
| 18. GEOTECHNICAL SAMPLES                               |  | DISTURBED                          |  | UNDISTURBED                                    |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>             |  | 20. SAMPLES FOR CHEMICAL ANALYSIS: |  | 21. TOTAL CORE RECOVERY: <u>N/A</u>            |  |
| <u>See activity log for analysis</u>                   |  | VOC                                |  | METALS   |  |
| 22. DISPOSITION OF HOLE: <u>Backfilled</u>             |  | MONITORING WEL                     |  | OTHER (SPECIFY):                               |  |
| <u>8/5/02</u>  |  | OTHER (SPECIFY):                   |  | 23. SIGNATURE OF INSPECTOR: <u>[Signature]</u> |  |

LOCATION SKETCH/COMMENTS

SCALE

See page 99<sup>th</sup> location of DA2-060 in the Soil logbook #1

HTRW DRILLING LOG

HOLE NUMBER **DA2260**

PROJECT: **DA2-EVAPD**

INSPECTOR **C. Small**

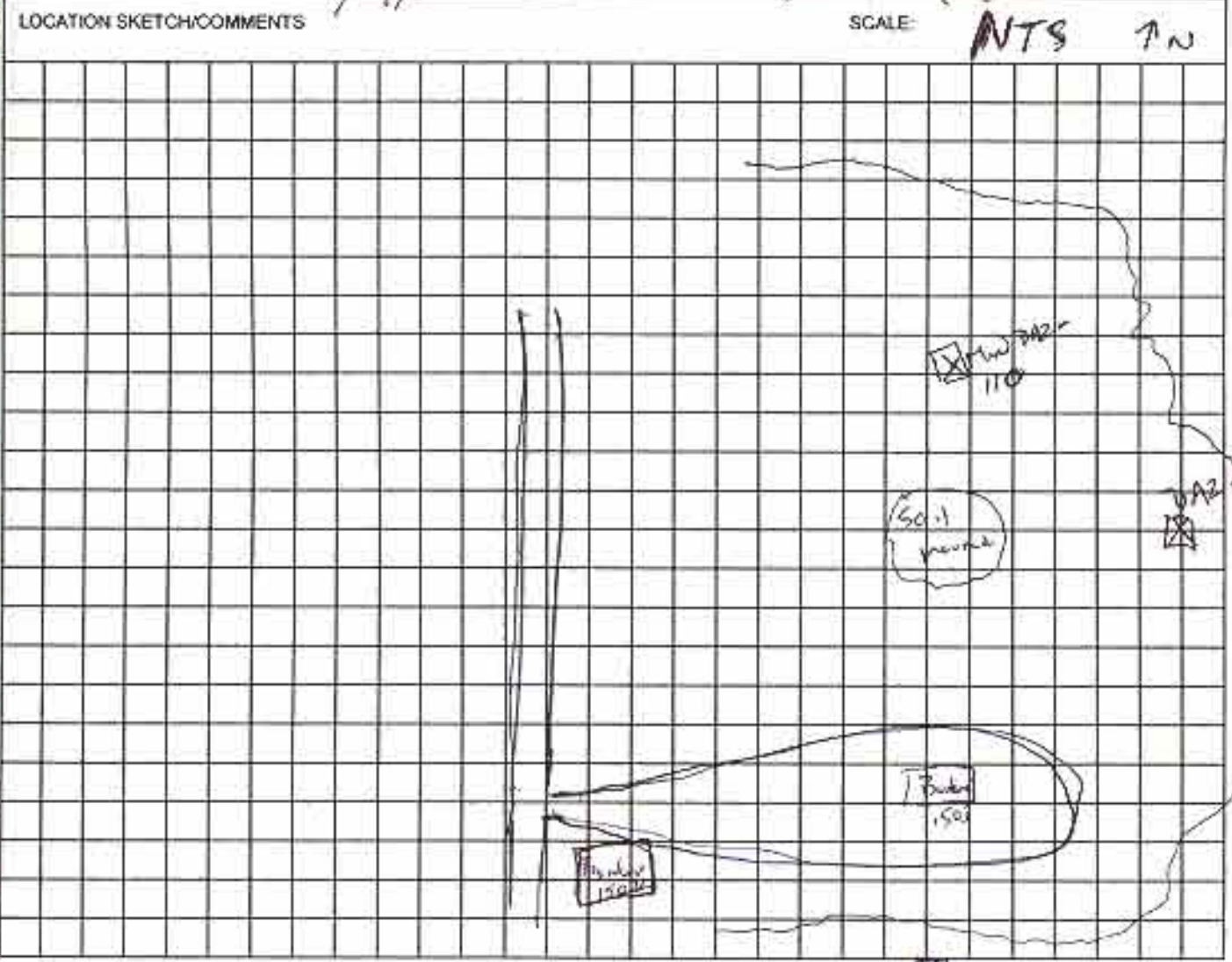
SHEET 1 OF 1

| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)  |
|-----------|-----------|--|-----------------------------|-----------------------------|--------------------------|--------------|
|           | 0         | Sticky clay with orange, gray mottling, trace of rock fragment up to 10mm, most conchoidal, almost entirely gray clay fine grained, moist, med to hrd plasticity |                             | N/A                         | DA250-600<br>0701-50     | roots, stems |
|           | 1.0       | Clay-silt, fine sand, poor sorted, some or trace of rock angular to subangular, reddish orange w/ gray mottling, piece of granite found                          | DD41<br>ppm                 | N/A                         | DA250-600<br>0702-50     |              |
|           | 2.0       |  |                             |                             |                          |              |
|           | 3.0       |  |                             |                             |                          |              |
|           | 4.0       |  |                             |                             |                          |              |
|           | 5.0       |  |                             |                             |                          |              |
|           | 6.0       |  |                             |                             |                          |              |
|           | 7.0       |  |                             |                             |                          |              |
|           | 8.0       |  |                             |                             |                          |              |
|           | 9.0       |  |                             |                             |                          |              |
|           | 10.0      |  |                             |                             |                          |              |

cc 8-15-70



|  |  |  |   |  |  |
|--|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>                               |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-061</u>                    |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>                   |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                                       |   | SHEET: <u>1 of 1</u>                           |  |
| 3. PROJECT: <u>DA2-EVAMP</u>                           |  |  | 4. LOCATION: <u>Demo 2 Ground Area</u>            |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>                         |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: |  | 8. HOLE LOCATION: <u>DA2-061</u>   |   |  |  |
| <u>35 - spm</u>  |  | 9. SURFACE ELEVATION: <u>n/a</u>   |   |  |  |
| <u>25 hwd</u>  |  | 10. DATE STARTED: <u>7/29/02</u>   |   |  |  |
| <u>55 3/2" auger bucket</u>                            |  | 11. DATE COMPLETED: <u>7/29/02</u>                                       |   |  |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>                   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>                |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>                   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |   |  |  |
| 18. GEOTECHNICAL SAMPLES                               |  | DISTURBED  |   | UNDISTURBED                                    |  |
| 19. TOTAL NUMBER OF CORE BOXES                         |  | 20. TOTAL CORE RECOVERY: <u>n/a</u>                                      |   | 21. SIGNATURE OF INSPECTOR: <u>[Signature]</u> |  |
| 30. SAMPLES FOR CHEMICAL ANALYSIS                      |  | VOC  |   | METALS   |  |
| <u>see activity log for analysis</u>                   |  | OTHER (SPECIFY)  |   | OTHER (SPECIFY)                                |  |
| 32. DISPOSITION OF HOLE                                |  | MONITORING WELL  |   | OTHER (SPECIFY)                                |  |
| <u>filled</u>  |  | <u>8/3/02</u>  |   |  |  |



DA2-057

HTRW DRILLING LOG

HOLE NUMBER D22-061

PROJECT: D22-RVAP

INSPECTOR: John T. Mohr

SHEET 1 OF 1

| ELEV. (A)          | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE (D) SCHEMING RESULTS     | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (E)   | REMARKS (F)             |
|--------------------|-----------|---|------------------------------------|----------------------------|--|-------------------------|
|                    | 1         | Many brown clayey silt, occasionally speckled with gray; trace of subangular angular rock 5-15 mm, most low toward plasticity | Background:<br>1.45<br>B.7<br>1.47 | NA                         | D22-061<br>070300<br>(0-1)                                       | Lots of stems and roots |
|                    | 2         | Same as above except color is more medium brown with little to no mottling occurring. 10% soil fragments                      | Background:<br>1.82<br>B.2 = 1.95  | NA                         | D22-061<br>070400<br>1-3<br>and<br>D22-061<br>080300<br>1-3 (45) | No organic matter       |
| <p>8150<br/>CC</p> |           |   |                                    |                            |  |                         |



|   |  |                                      |  |                               |   |
|---|--|--------------------------------------|--|-------------------------------|---|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>          |  | HOLE NUMBER<br><u>DAD-062</u> |   |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR<br><u>N/A</u> |  | SHEET <u>1</u> OF <u>1</u>    |   |
| 3. PROJECT: <u>DAD RUAPP</u>  |  |                                      | 4. LOCATION: <u>Demol grounds Area</u>                                   |                               |   |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |                                      | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                        |                               |   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>25 hawl</u><br><u>35 iron</u><br><u>35 30" auger bucket</u> |  |                                      | 8. HOLE LOCATION: <u>DAD-062</u>   |                               |   |
|   |  |                                      | 9. SURFACE ELEVATION: <u>n/a</u>   |                               |   |
|   |  |                                      | 10. DATE STARTED: <u>7-31-02</u>   |                               | 11. DATE COMPLETED: <u>7-31-02</u>              |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  |                                      | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |                               |   |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  |                                      | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |                               |   |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>  |  |                                      | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |                               |   |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED                            | UNDISTURBED  |                               | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>      |
| 20. SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC                                  | METALS   | OTHER (SPECIFY)               | OTHER (SPECIFY)                                 |
| <u>See activity log for analysis</u>  |  |                                      |  |                               |   |
| 22. DISPOSITION OF HOLE   |  | BACKFILLED                           | MONITORING WELL  | OTHER (SPECIFY)               | 21. TOTAL CORE RECOVERY: <u>n/a</u>             |
| <u>fill</u>   |  |                                      |  |                               | 23. SIGNATURE OF SUPERVISOR: <u>[Signature]</u> |

LOCATION SKETCH/COMMENTS: \_\_\_\_\_ SCALE: \_\_\_\_\_

See page 5 for location of DAD-062 in the soil log book



### HTRW DRILLING LOG

HOLE NUMBER *DA2-62*

PROJECT: *PA2-KUAPP*

INSPECTOR *C. Small*

SHEET OF

| ELEV (A)                            | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOCHEM SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)          |
|-------------------------------------|-----------|--|-----------------------------|----------------------------|---------------------------|----------------------|
|                                     | 0"        | Organic top soil - silty, grayish dk to med. brown, moist  | not available               | N/A                        | DA2-62<br>4705-50         | rocks, leaves, stems |
|                                     | 1' 0"     | Silty sand well sorted, some yellow brown, trace pebbles angular to subangular (2-4mm) moist                     |                             |                            | 1 sp # sample             |                      |
|                                     | 2' 0"     | Same as above  | not available               | N/A                        | DA250-62<br>4706-50       |                      |
|                                     | 2' 6"     | Sandy clay, well sorted, med plasticity, moist to wet yellow brown, with gray mottling and orange mottling spots |                             |                            |                           |                      |
|                                     | 3' 0"     | Sandy clay - silty, well sorted, med plasticity, wet, gray to dk gray  |                             |                            |                           |                      |
| <p><i>8-28-82</i><br/><i>cc</i></p> |           |  |                             |                            |                           |                      |

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <i>Louisville</i>   |  | HOLE NUMBER <i>DA2-063</i>                  |  |
| 1. COMPANY NAME: <i>Spec Pro Inc</i>   |  | 2. DRILL SUBCONTRACTOR: <i>n/a</i>                                       |  | SHEET <i>1 of 1</i>                         |  |
| 3. PROJECT: <i>DA2-RUARD</i>   |  | 4. LOCATION: <i>Demo 2 ground area</i>                                   |  |   |  |
| 5. NAME OF DRILLER: <i>n/a</i>   |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <i>n/a</i>                        |  |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><i>25 bowl</i><br><i>35 spoon</i><br><i>35 3/4" auger bucket</i> |  | 8. HOLE LOCATION: <i>DA2-063</i>   |  | 9. SURFACE ELEVATION: <i>n/a</i>            |  |
| 12. OVERBURDEN THICKNESS: <i>n/a</i>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/a</i>                            |  |   |  |
| 13. DEPTH DRILLED INTO ROCK: <i>n/a</i>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/a</i> |  |   |  |
| 14. TOTAL DEPTH OF HOLE: <i>3.4</i>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>                 |  |   |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |  | UNDISTURBED                                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS  |  | VOC  |  | METALS                                      |  |
| <i>See activity log for analysis</i>   |  |  |  |   |  |
| 23. DEPOSITION OF HOLE   |  | SACKLIED   |  | MONITORING WELL                             |  |
|  |  | <i>8/5/00</i>  |  |   |  |
| 19. TOTAL NUMBER OF CORE BOXES: <i>n/a</i>   |  | OTHER (SPECIFY)  |  | OTHER (SPECIFY)                             |  |
|  |  |  |  |   |  |
|  |  |  |  | 21. TOTAL CORE RECOVERY: <i>n/a</i>         |  |
|  |  |  |  | 22. SIGNATURE OF INSPECTOR: <i>C. Small</i> |  |

|   |       |
|---|-------|
| LOCATION SKETCH/COMMENTS  | SCALE |
| <p><i>See page 15 on location of DA2-063 in the soil logbook #2</i></p> |       |



HTRW DRILLING LOG

HOLE NUMBER DAD-063

PROJECT: DAD-EVAP

INSPECTOR C. Canal

SHEET / OF /

| ELEV (A) | DEPTH (B) ft | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOCH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)  |
|----------|--------------|---|-----------------------------|--------------------------|--------------------------|--|
|          | 0            | Roots, stems, oranges, med brown sandy clay silt, graded int med to dk brown clay silty sand, matrix orange     | 2.12 ppb<br>2.12 soil ppb   | N/A                      | DAD-063<br>0707-50       | 1st hole - wet, clay-silt and med brown to brown roots, leaves, stems at 10" went to very dk brown |
|          | 1            | quartz sandstone, subangular subround 1-3mm in size throughout gray-silty sand matrix                           |                             |                          |                          |  |
|          | 2            | silty sand, lots (30%) quartz pebbles, sandstone pieces, orange matrix  | 2.40 ppb                    | N/A                      | DAD-063<br>0708-50       |  |
|          | 3            | well sorted sand - gray color rounded to subrounded (5-6mm) quartz<br>wet sand, quartz pebbles (1-5mm) med gray | 2.33 ppb<br>2.33 soil       |                          |                          |  |
|          | 3.6          | water at 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          |   |                             |                          |                          |  |

5.30 ppb  
cc



|   |  |                                    |  |  |                                    |
|---|--|------------------------------------|--|--|------------------------------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <u>Louisville</u>         |  | HOLE NUMBER <u>DA2-064</u>                   |                                    |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u> |  | SHEET <u>L of L</u>                          |                                    |
| 3. PROJECT: <u>DA2-EVAP</u>   |  |                                    | 4. LOCATION: <u>Demo 2 ground area</u>                                   |  |                                    |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |                                    | 8. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                        |  |                                    |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>25 drill, 25 spuds, 3/2" auger bucket</u> |  |                                    | 8. HOLE LOCATION: <u>DA2-064</u>   |  |                                    |
|   |  |                                    | 9. SURFACE ELEVATION: <u>n/a</u>   |  |                                    |
|   |  |                                    | 10. DATE STARTED: <u>7-30-02</u>   |  | 11. DATE COMPLETED: <u>7-30-02</u> |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  |                                    | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |  |                                    |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  |                                    | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |                                    |
| 14. TOTAL DEPTH OF HOLE: <u>3-ft</u>  |  |                                    | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |  |                                    |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED                          | UNDISTURBED  | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>   |                                    |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>see activity log for analysis</u>                             |  | VOC                                | METALS   | OTHER (SPECIFY)                              | OTHER (SPECIFY)                    |
| 21. DISPOSITION OF HOLE: <u>backfilled 8/5/02</u>   |  | MONITORING WELL                    | OTHER (SPECIFY)  | 22. SIGNATURE OF INSPECTOR: <u>C. Canell</u> |                                    |
| LOCATION SKETCH/COMMENTS  |  |                                    | SCALE:   |  |                                    |

See page 15 for location of DA2-064 in the Soil Logbook





|   |  |   |   |                                     |  |
|---|--|---|---|-------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                              |  | DISTRICT: <u>Louisville</u>   |   | HOLE NUMBER<br><u>DA2-065</u>       |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>                |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u>  |   | 3. EST. / OF<br><u>1001 / 1</u>     |  |
| 3. PROJECT: <u>DA2-RUAPP</u>                          |  |   | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |                                     |  |
| 5. NAME OF DRILLER: <u>n/a</u>                        |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT |  | 8. HOLE LOCATION: <u>DA2-065</u>  |   |                                     |  |
| <u>SS bowl</u>  |  | 9. SURFACE ELEVATION: <u>n/a</u>  |   |                                     |  |
| <u>SS spoon</u>                                       |  | 10. DATE STARTED: <u>7-29-02</u>  |   |                                     |  |
| <u>SS 36" auger bucket</u>                            |  | 11. DATE COMPLETED: <u>7-29-02</u>  |   |                                     |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>                  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                               |   |                                     |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>               |  | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>n/a</u> |   |                                     |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 feet</u>                |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>n/a</u>                 |   |                                     |  |
| 15. GEOTECHNICAL SAMPLES                              |  | DISTURBED   |   | UNDISTURBED                         |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>            |  | 20. SAMPLES FOR CHEMICAL ANALYSIS   |   | 21. TOTAL CORE RECOVERY: <u>n/a</u> |  |
| <u>See activity log for analysis</u>                  |  | VOC   |   | METALS                              |  |
| 22. DISPOSITION OF HOLE                               |  | OTHER (SPECIFY)   |   | OTHER (SPECIFY)                     |  |
| <u>SAFETY</u>   |  | MONITORING WELL   |   | OTHER (SPECIFY)                     |  |
| <u>9/5/02</u>   |  | 23. SIGNATURE OF SUPERVISOR   |   | <u>(Signature)</u>                  |  |

LOCATION SKETCH/COMMENTS

SCALE:

See page 15 for location of  
DA2-065 in the soil logbook #10



HTRW DRILLING LOG

HOLE NUMBER DA2-065

PROJECT: DA2-RUADP

INSPECTOR: C. Canall

SHEET 1 OF 1

| ELEV. (A) | DEPTH (M) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS    | GEO TECH SAMPLE OK COMB BOX | ANALYTICAL SAMPLE NO. (F)       | REMARKS (H)       |
|-----------|-----------|--|--------------------------------|-----------------------------|---------------------------------|-------------------|
|           | 0.2       | top 2" dark brown organic silty sand, H. brown, well sorted thin band of clay interspersed quartz pebbles up to 3mm moist. | 0.81 ppm<br>barley<br>1.02 ppm | N/A                         | DA255-065<br>0711-50            | roots, stems frag |
|           | 1.5       | same as above without clay layer and dry   | 1.15 ppm<br>barley<br>1.22 ppm | N/A                         | DA250-065<br>0712-50<br>+ split |                   |
|           | 1         | grades into more sandy soil, no sandstone, dry to moist  |                                |                             |                                 |                   |
|           | 8.20      | 8.20-065<br>cc   |                                |                             |                                 |                   |

|  |  |                             |   |                                       |                             |
|--|--|-----------------------------|---|---------------------------------------|-----------------------------|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: Louisville        |   | HOLE NUMBER: DA2-066                  |                             |
| 1. COMPANY NAME: Spec Pro Inc  |  | 2. DRILL SUBCONTRACTOR: n/a |   | DEPT: 10-1                            |                             |
| 3. PROJECT: DA2-EVAPP  |  |                             | 4. LOCATION: Demo 2 grounds area                                  |                                       |                             |
| 5. NAME OF DRILLER: n/a  |  |                             | 5. MANUFACTURERS DESIGNATION OF DRILL: n/a                        |                                       |                             |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br>SS bowl<br>SS spoon<br>SS 3/4" finger bucket |  |                             | 8. HOLE LOCATION: DA2-066   |                                       |                             |
|  |  |                             | 9. SURFACE ELEVATION: n/a   |                                       |                             |
|  |  |                             | 10. DATE STARTED: 7-29-02   |                                       | 11. DATE COMPLETED: 7-29-02 |
| 12. OVERBURDEN THICKNESS: n/a  |  |                             | 15. DEPTH GROUNDWATER ENCOUNTERED: n/a                            |                                       |                             |
| 13. DEPTH DRILLED INTO ROCK: n/a   |  |                             | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a |                                       |                             |
| 14. TOTAL DEPTH OF HOLE: 3 feet  |  |                             | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a                 |                                       |                             |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED                   | UNDISTURBED   | 19. TOTAL NUMBER OF CORE BOXES: n/a   |                             |
| 20. SAMPLES FOR CHEMICAL ANALYSIS  |  | VOC                         | METALS  | OTHER (SPECIFY)                       | OTHER (SPECIFY)             |
| See activity log for analysis  |  |                             |   |                                       |                             |
| 23. DEPOSITION OF HOLE   |  | BACKFILLED                  | WORMHOLE MULL   | OTHER (SPECIFY)                       | 21. TOTAL CORE RECOVERY: %  |
|  |  | 4/5/02                      |   |                                       |                             |
|  |  |                             |   | 25. SIGNATURE OF INSPECTOR: C. Canall |                             |

LOCATION SKETCH/COMMENTS: SCALE:

See page 15 for location of DA2 hole in the soil log book #2

HTRW DRILLING LOG

HOLE NUMBER D02-066

PROJECT: DAD-EVAP

INSPECTOR: C. Small

SHEET 1 OF 1

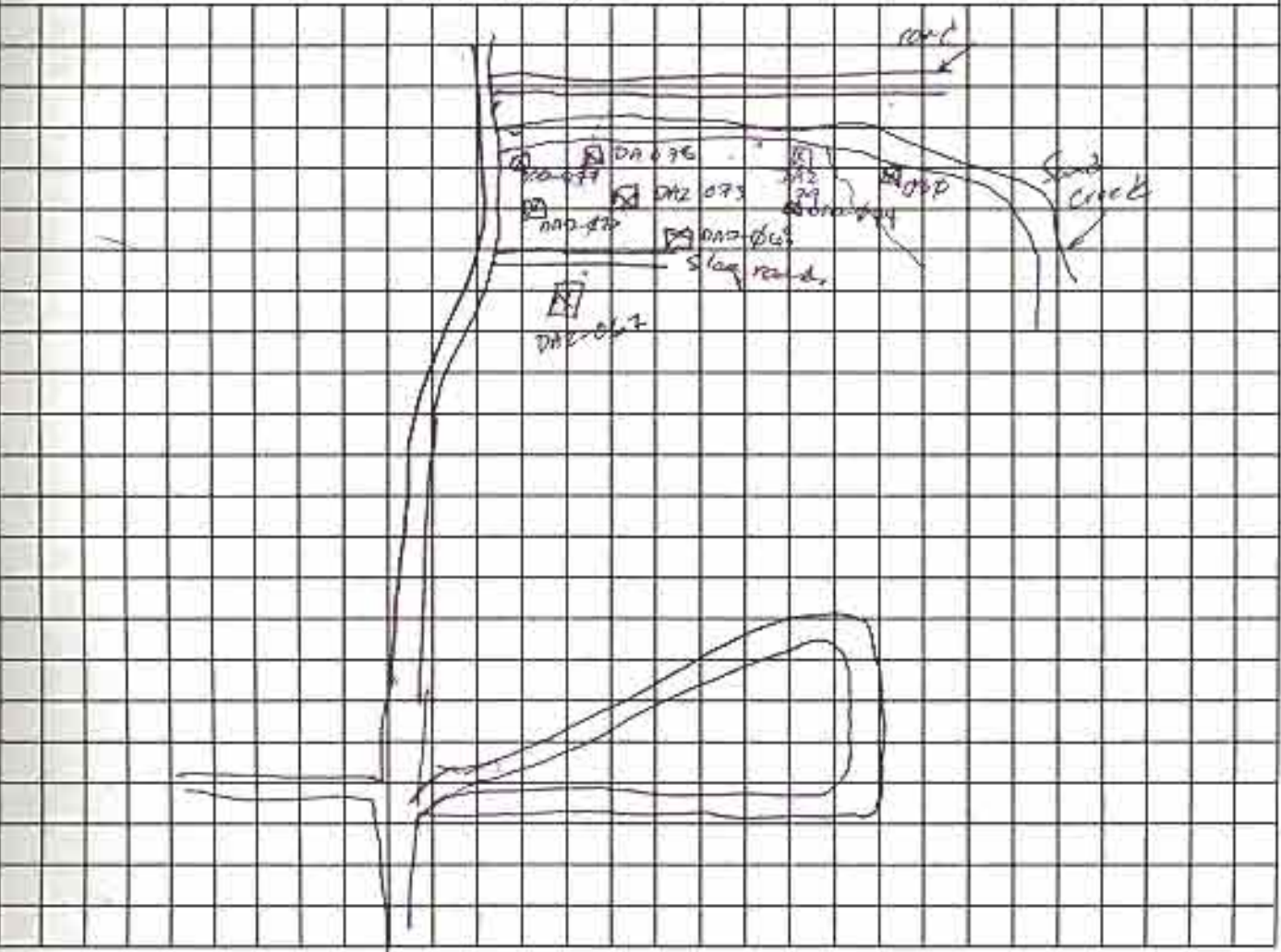
| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS                  | GEO TECH SAMPLE OR CORR BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)                   |
|-----------|-----------|--|--|-----------------------------|---------------------------|-------------------------------|
|           | 0         | Light to med. brown, clay-silt, trace sand, angular to subangular (5-20mm)   | backg = $\phi 93$ ppm<br>$\phi 87$ trace ppm | N/A                         | D02-066-<br>$\phi 713-50$ | frag, roots, gems, calcareous |
|           | 1.5       | color change to lighter brown, silty-sand, well sorted, traces of sandstone, angular to subangular, most to wet gray with orange mottling, trace organics (1-15mm) | $\phi 84$ - backg ppm<br>$\phi 89$ ppm       | N/A                         | D02-066-<br>$\phi 714-50$ |                               |
|           | 2         | trace of argon quartz rocks  |  |                             |                           |                               |
|           | 3         | hit weathered sandstone  |  |                             |                           |                               |
|           | 3.5       | Refusal due to rock  |  |                             |                           |                               |
|           | 4         |  |  |                             |                           |                               |
|           | 5         |  |  |                             |                           |                               |
|           | 6         |  |  |                             |                           |                               |
|           | 7         |  |  |                             |                           |                               |
|           | 8         |  |  |                             |                           |                               |
|           | 9         |  |  |                             |                           |                               |
|           | 10        |  |  |                             |                           |                               |

8.20 ds  
cc



|  |  |  |   |                                   |  |
|--|--|--|---|-----------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                 |  | DISTRICT <u>Lowisville</u>   |   | HOLE NUMBER <u>DAD-067</u>        |  |
| 1. COMPANY NAME <u>Spec Pro Inc</u>                      |  | 2. DRILL SUBCONTRACTOR <u>n/a</u>  |   | SHEET <u>1 of 1</u>               |  |
| 3. PROJECT: <u>DAD EVAPP</u>                             |  |  | 4. LOCATION <u>Demo 2 Grounds Area</u>            |                                   |  |
| 5. NAME OF DRILLER: <u>n/a</u>                           |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT    |  | 8. HOLE LOCATION <u>DAD-067</u>  |   |                                   |  |
| <u>32 bowl</u>   |  | 8. SURFACE ELEVATION: <u>n/a</u>   |   |                                   |  |
| <u>32 spoon</u>  |  | 10. DATE STARTED <u>7-19-02</u>  |   | 11. DATE COMPLETED <u>7-19-02</u> |  |
| <u>25 3/4" auger bucket</u>                              |  | 12. OVERBURDEN THICKNESS <u>n/a</u>                                      |   |                                   |  |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>                   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   |                                   |  |
| 14. TOTAL DEPTH OF HOLE <u>18 inches</u>                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u> |  | 18. GEOTECHNICAL SAMPLES   |   |                                   |  |
| 18. GEOTECHNICAL SAMPLES                                 |  | DISTURBED  |   | UNDISTURBED                       |  |
| 19. TOTAL NUMBER OF CORE BOXES                           |  | 20. SAMPLES FOR CHEMICAL ANALYSIS  |   | 21. TOTAL CORE RECOVERY           |  |
| <u>see activity log</u>                                  |  | VOC  |   | METALS                            |  |
| 22. DEPOSITION OF HOLE                                   |  | OTHER (SPECIFY)  |   | OTHER (SPECIFY)                   |  |
| <u>BACKFILLED</u>  |  | MONITORING WELL  |   | OTHER (SPECIFY)                   |  |
| <u>8/5/02</u>  |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u>                            |   |                                   |  |

LOCATION SKETCH/COMMENTS Cross reference 4.2B SCALE: NTS PN



HTRW DRILLING LOG

HOLE NUMBER DA2-067

PROJECT: DA2-RVAAP

INSPECTOR: ER 7 ML

SHEET 1 OF 1

| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)  |
|-----------|-----------|---|-----------------------------|----------------------------|--------------------------|--|
|           | 1         | 0-2" silt; light brown to medium brown silty clay slightly denser towards bottom of the hole. Begins to grade to a dark brown clay with mottling of orange - 210% 1mm - 10mm sandstone + quartz pebbles | FID not available           | NA                         | DA206-267-0715 50        | Slog; roots; part of a board.  |
|           | 2         | Medium to dark brown silty clay grading into clay. Approx 20% SS + other soil pieces that may form a few mm in size to 20mm, medium plasticity clay.  | FID not available           | NA                         | DA2-50-067-0716 50       | lots of rusted soil - could have had an old structure here; Slog pieces<br>Termination depth 18" |
|           | 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       |   |                             |                            |                          |  |

8-7-02 CC



|  |  |                                      |   |  |                                   |
|--|--|--------------------------------------|---|--|-----------------------------------|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>           |   | HOLE NUMBER <u>DAD-068</u>                     |                                   |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u> |   | DATE <u>10/1</u>                               |                                   |
| 3. PROJECT <u>DAD-EVAMP</u>  |  |                                      | 4. LOCATION <u>Demo 2 Ground Area</u>                                   |  |                                   |
| 5. NAME OF DRILLER <u>n/a</u>  |  |                                      | 5. MANUFACTURERS DESIGNATION OF DRILL <u>n/a</u>                        |  |                                   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>SS bowl</u><br><u>SS 200m</u><br><u>SS 3/8" auger bucket</u> |  | 8. HOLE LOCATION <u>DAD-068</u>      |   |  |                                   |
|  |  |                                      | 9. SURFACE ELEVATION <u>n/a</u>   |  |                                   |
|  |  |                                      | 10. DATE STARTED <u>7-22-07</u>   |  | 11. DATE COMPLETED <u>7-22-07</u> |
| 12. OVERBURDEN THICKNESS <u>n/a</u>  |  |                                      | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                            |  |                                   |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>   |  |                                      | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>n/a</u> |  |                                   |
| 14. TOTAL DEPTH OF HOLE <u>3ft</u>   |  |                                      | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>n/a</u>                 |  |                                   |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED                            | UNDISTURBED   |  | 19. TOTAL NUMBER OF CORE BOXES    |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><u>see activity log</u>   |  | VOC                                  | METALS  | OTHER (SPECIFY)                                | OTHER (SPECIFY)                   |
| 22. DISPOSITION OF HOLE<br><u>8/3/02</u>   |  | BACKFILLED                           | MONITORING WELL   | OTHER (SPECIFY)                                | 21. TOTAL CORE RECOVERY %         |
|  |  |                                      |   | 23. SIGNATURE OF INSPECTOR<br><u>C. Canell</u> |                                   |

LOCATION SKETCH/COMMENTS SCALE:

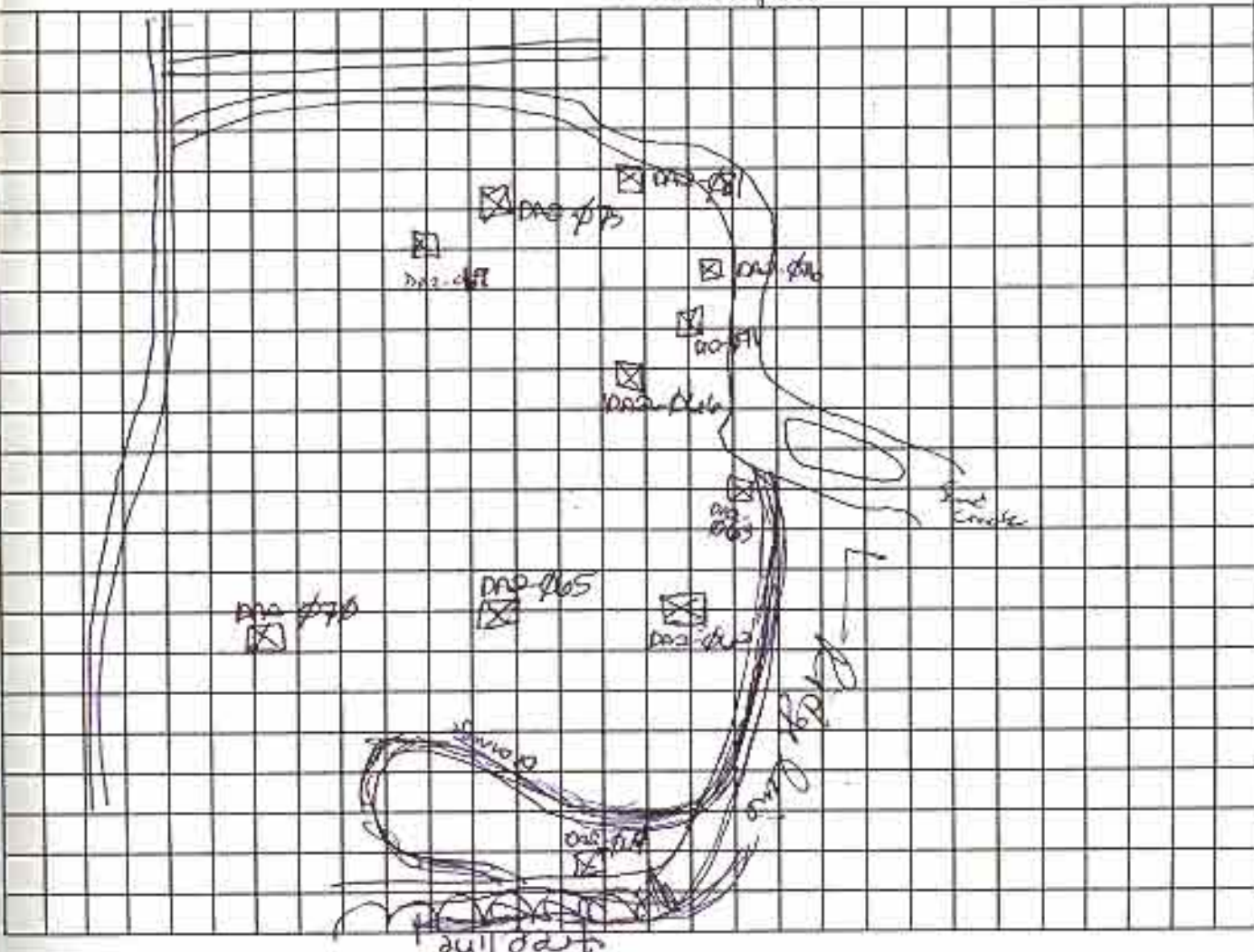
See page 35  
for DAD-068 location  
in Soil Logbook #1





|  |  |  |   |   |  |
|--|--|--|---|---|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>D02-069</u>                       |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>N/A</u>   |   | SHEET <u>1 of 1</u>                               |  |
| 3. PROJECT: <u>D02-RVADP</u>   |  |  | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |   |  |
| 5. NAME OF DRILLER: <u>N/A</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u> |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><u>SS bowl</u><br><u>SS spoon</u><br><u>SS 3/4" Auger bucket</u> |  | 8. HOLE LOCATION: <u>D02-069</u>   |   | 9. SURFACE ELEVATION: <u>N/A</u>                  |  |
| 12. OVERBURDEN THICKNESS: <u>N/A</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>                                |   | 10. DATE STARTED: <u>7-29-02</u>                  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>N/A</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>N/A</u>  |   | 11. DATE COMPLETED: <u>7-29-02</u>                |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft.</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>N/A</u>                  |   |   |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |   | UNDISTURBED                                       |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>   |  | 20. SAMPLES FOR CHEMICAL ANALYSIS:<br><u>Soil activity logs for analysis</u> |   | 21. TOTAL CORE RECOVERY: <u>N/A</u>               |  |
| 22. DISPOSITION OF HOLE:<br><u>Backfilled 8/3/02</u>   |  | VOC  |   | METALS  |  |
|  |  | OTHER (SPECIFY):   |   | OTHER (SPECIFY):                                  |  |
|  |  | MONITORING WELL  |   | OTHER (SPECIFY):                                  |  |
|  |  |  |   | 23. SIGNATURE OF INSPECTOR:<br><u>[Signature]</u> |  |

LOCATION SKETCH/COMMENTS: Cross-section Figure 4.2b in workplan SCALE: NTS ↑ N





### HTRW DRILLING LOG

HOLE NUMBER **DAZ-069**

PROJECT: **DDP-RVAAP**

INSPECTOR: **EL J Moh**

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)   |
|----------|-----------|---|-----------------------------|----------------------------|---------------------------|---|
|          | 0.0       | Silty clay, poorly sorted, moist, with sub-angular to angular rock fragments (2-15 mm) - some quartz. Low to medium plasticity; red brown | Below 0.17                  | NA                         | DAZ-069-017-00            | 3/2 hole at 4" turns into clay/silt (orange red with gray mottling) and then goes back to brown |
|          | 1.0       | No 15° to above most grades into sandy silt; yellow brown with gray mottling; moist to wet  | Below 0.22                  | NA                         | DAZ-069-022-00            | Roots shown throughout, carbonaceous at the top   |
|          | 2.0       |   | B2=0.18                     | NA                         | DAZ-069-018-00            |   |
|          | 3.0       |   |                             |                            |                           |   |
|          | 4.0       |   |                             |                            |                           |   |
|          | 5.0       |   |                             |                            |                           |   |
|          | 6.0       |   |                             |                            |                           |   |
|          | 7.0       |   |                             |                            |                           |   |
|          | 8.0       |   |                             |                            |                           |   |
|          | 9.0       |   |                             |                            |                           |   |
|          | 10.0      |   |                             |                            |                           |   |

~~8-20-05~~  
CC



|   |  |   |   |   |  |
|---|--|---|---|---|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: Louisville                              |   | HOLE NUMBER: DAD-070  |  |
| 1. COMPANY NAME: Spec Pro Inc   |  | 2. DRILL SUBCONTRACTOR: N/A                       |   | DEPT: Lab   |  |
| 3. PROJECT: DAD-RUAPP   |  |   | 4. LOCATION: Demo <sup>2</sup> Grounds Area |   |  |
| 5. NAME OF DRILLER: N/A   |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: N/A  |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br>35 bowl<br>35 spoon<br>35 3/2" Auger bucket |  | 8. HOLE LOCATION: DAD-070                         |   | 9. SURFACE ELEVATION: N/A   |  |
| 12. OVERBURDEN THICKNESS: N/A   |  | 10. DATE STARTED: 7-29-02                         |   | 11. DATE COMPLETED: 7-29-02                                       |  |
| 13. DEPTH DRILLED INTO ROCK: N/A  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: N/A            |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A |  |
| 14. TOTAL DEPTH OF HOLE: N/A<br>3 feet ART  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A |   |   |  |
| 18. GEOTECHNICAL SAMPLES  |  | 19. TOTAL NUMBER OF CORE BOXES                    |   |   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS:<br>Per activity log for analysis                                   |  | DISTURBED   |   | UNDISTURBED   |  |
|   |  | VOC   |   | METALS  |  |
|   |  | OTHER (SPECIFY)                                   |   | OTHER (SPECIFY)   |  |
| 22. DISPOSITION OF HOLE:<br>BOTTLED 8/3/02  |  | MONITORING WELL                                   |   | OTHER (SPECIFY)   |  |
|   |  |   |   | 23. SIGNATURE OF INSPECTOR: C. Small                              |  |
| 21. TOTAL CORE RECOVERY: N/A  |  |   |   |   |  |

LOCATION SKETCH/COMMENTS

SCALE:

See Page 15  
for location of  
DAD-070 in the  
Soil Logbook #2

HTRW DRILLING LOG

HOLE NUMBER D2-070

PROJECT: D2-RVAP

INSPECTOR: C. Small

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) ft. | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS        | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F)             | REMARKS (G)                                     |
|----------|---------------|--|------------------------------------|----------------------------|--------------------------------------|---|
|          |               | med to dk brown clay silt, lots of organic   | 1.04 ppm<br>background<br>1.07 ppm | N/A                        | D2-070<br>072-50                     | lots, some, dark wavy metal brass rotating band |
|          | 0.0           | color change to H. gray mottled<br>to orange gray more sandy silt<br>+ trace of sandstone, angular<br>to subangular<br>orange brown sand, well sorted<br>at 1.5" color change, dk orange<br>brown, rock 5-10mm angular<br>to subangular, well sorted | 1.33 ppm = backg.<br>1.29 ppm      | n/a                        | D2-070<br>072-50<br>D2-070<br>064-50 |   |
|          | 1.0           | dk gray clay stringer - 10.5"<br>angular rock or sandstone   | n/a                                | n/a                        |                                      |   |
|          | 1.5           |  |                                    |                            |                                      |   |
|          | 2.0           |  |                                    |                            |                                      |   |
|          | 2.5           |  |                                    |                            |                                      |   |
|          | 3.0           |  |                                    |                            |                                      |   |
|          | 3.5           |  |                                    |                            |                                      |   |
|          | 4.0           |  |                                    |                            |                                      |   |
|          | 4.5           |  |                                    |                            |                                      |   |
|          | 5.0           |  |                                    |                            |                                      |   |
|          | 5.5           |  |                                    |                            |                                      |   |
|          | 6.0           |  |                                    |                            |                                      |   |
|          | 6.5           |  |                                    |                            |                                      |   |
|          | 7.0           |  |                                    |                            |                                      |   |
|          | 7.5           |  |                                    |                            |                                      |   |
|          | 8.0           |  |                                    |                            |                                      |   |
|          | 8.5           |  |                                    |                            |                                      |   |
|          | 9.0           |  |                                    |                            |                                      |   |
|          | 9.5           |  |                                    |                            |                                      |   |
|          | 10.0          |  |                                    |                            |                                      |   |
|          | 10.5          |  |                                    |                            |                                      |   |
|          | 11.0          |  |                                    |                            |                                      |   |
|          | 11.5          |  |                                    |                            |                                      |   |
|          | 12.0          |  |                                    |                            |                                      |   |
|          | 12.5          |  |                                    |                            |                                      |   |
|          | 13.0          |  |                                    |                            |                                      |   |
|          | 13.5          |  |                                    |                            |                                      |   |
|          | 14.0          |  |                                    |                            |                                      |   |
|          | 14.5          |  |                                    |                            |                                      |   |
|          | 15.0          |  |                                    |                            |                                      |   |
|          | 15.5          |  |                                    |                            |                                      |   |
|          | 16.0          |  |                                    |                            |                                      |   |
|          | 16.5          |  |                                    |                            |                                      |   |
|          | 17.0          |  |                                    |                            |                                      |   |
|          | 17.5          |  |                                    |                            |                                      |   |
|          | 18.0          |  |                                    |                            |                                      |   |
|          | 18.5          |  |                                    |                            |                                      |   |
|          | 19.0          |  |                                    |                            |                                      |   |
|          | 19.5          |  |                                    |                            |                                      |   |
|          | 20.0          |  |                                    |                            |                                      |   |
|          | 20.5          |  |                                    |                            |                                      |   |
|          | 21.0          |  |                                    |                            |                                      |   |
|          | 21.5          |  |                                    |                            |                                      |   |
|          | 22.0          |  |                                    |                            |                                      |   |
|          | 22.5          |  |                                    |                            |                                      |   |
|          | 23.0          |  |                                    |                            |                                      |   |
|          | 23.5          |  |                                    |                            |                                      |   |
|          | 24.0          |  |                                    |                            |                                      |   |
|          | 24.5          |  |                                    |                            |                                      |   |
|          | 25.0          |  |                                    |                            |                                      |   |
|          | 25.5          |  |                                    |                            |                                      |   |
|          | 26.0          |  |                                    |                            |                                      |   |
|          | 26.5          |  |                                    |                            |                                      |   |
|          | 27.0          |  |                                    |                            |                                      |   |
|          | 27.5          |  |                                    |                            |                                      |   |
|          | 28.0          |  |                                    |                            |                                      |   |
|          | 28.5          |  |                                    |                            |                                      |   |
|          | 29.0          |  |                                    |                            |                                      |   |
|          | 29.5          |  |                                    |                            |                                      |   |
|          | 30.0          |  |                                    |                            |                                      |   |
|          | 30.5          |  |                                    |                            |                                      |   |
|          | 31.0          |  |                                    |                            |                                      |   |
|          | 31.5          |  |                                    |                            |                                      |   |
|          | 32.0          |  |                                    |                            |                                      |   |
|          | 32.5          |  |                                    |                            |                                      |   |
|          | 33.0          |  |                                    |                            |                                      |   |
|          | 33.5          |  |                                    |                            |                                      |   |
|          | 34.0          |  |                                    |                            |                                      |   |
|          | 34.5          |  |                                    |                            |                                      |   |
|          | 35.0          |  |                                    |                            |                                      |   |
|          | 35.5          |  |                                    |                            |                                      |   |
|          | 36.0          |  |                                    |                            |                                      |   |
|          | 36.5          |  |                                    |                            |                                      |   |
|          | 37.0          |  |                                    |                            |                                      |   |
|          | 37.5          |  |                                    |                            |                                      |   |
|          | 38.0          |  |                                    |                            |                                      |   |
|          | 38.5          |  |                                    |                            |                                      |   |
|          | 39.0          |  |                                    |                            |                                      |   |
|          | 39.5          |  |                                    |                            |                                      |   |
|          | 40.0          |  |                                    |                            |                                      |   |
|          | 40.5          |  |                                    |                            |                                      |   |
|          | 41.0          |  |                                    |                            |                                      |   |
|          | 41.5          |  |                                    |                            |                                      |   |
|          | 42.0          |  |                                    |                            |                                      |   |
|          | 42.5          |  |                                    |                            |                                      |   |
|          | 43.0          |  |                                    |                            |                                      |   |
|          | 43.5          |  |                                    |                            |                                      |   |
|          | 44.0          |  |                                    |                            |                                      |   |
|          | 44.5          |  |                                    |                            |                                      |   |
|          | 45.0          |  |                                    |                            |                                      |   |
|          | 45.5          |  |                                    |                            |                                      |   |
|          | 46.0          |  |                                    |                            |                                      |   |
|          | 46.5          |  |                                    |                            |                                      |   |
|          | 47.0          |  |                                    |                            |                                      |   |
|          | 47.5          |  |                                    |                            |                                      |   |
|          | 48.0          |  |                                    |                            |                                      |   |
|          | 48.5          |  |                                    |                            |                                      |   |
|          | 49.0          |  |                                    |                            |                                      |   |
|          | 49.5          |  |                                    |                            |                                      |   |
|          | 50.0          |  |                                    |                            |                                      |   |

8-20-05  
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|---|--|--|---|--|-----------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <i>Louisville</i>  |   | HOLE NUMBER<br><i>DA2-071</i>                |                 |
| 1. COMPANY NAME<br><i>Spec Pro Inc</i>  |  | 2. DRILL SUBCONTRACTOR<br><i>D/A</i>                                       |   | SHEET <i>1</i> of <i>1</i>                   |                 |
| 3. PROJECT<br><i>DA2-RIAPP</i>  |  |  | 4. LOCATION<br><i>Demo 2 grounds area</i>           |  |                 |
| 5. NAME OF DRILLER<br><i>n/a</i>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL<br><i>n/a</i> |  |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><i>SS bowl<br/>SS spoon<br/>SS 3/2" auger bucket</i> |  | 8. HOLE LOCATION<br><i>DA2-071</i>   |   | 9. SURFACE ELEVATION<br><i>n/a</i>           |                 |
| 12. OVERBURDEN THICKNESS<br><i>n/a</i>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><i>n/a</i>                            |   | 10. DATE STARTED<br><i>7-30-02</i>           |                 |
| 13. DEPTH DRILLED INTO ROCK<br><i>n/a</i>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><i>n/a</i> |   | 11. DATE COMPLETED<br><i>7-30-02</i>         |                 |
| 14. TOTAL DEPTH OF HOLE<br><i>3ft</i>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><i>n/a</i>                 |   | 19. TOTAL NUMBER OF CORE BOXES<br><i>n/a</i> |                 |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  | UNDISTURBED   | 20. SAMPLES FOR CHEMICAL ANALYSIS            |                 |
|   |  | VOC  | METALS  | OTHER (SPECIFY)                              | OTHER (SPECIFY) |
| <i>See activity log for samples</i>   |  |  |   |  |                 |
| 22. DISPOSITION OF HOLE<br><i>Monitoring Well</i>   |  | MONITORING WELL  | OTHER (SPECIFY)                                     | 21. TOTAL CORE RECOVERY %<br><i>n/a</i>      |                 |
|   |  |  |   | 23. SIGNATURE OF INSPECTOR<br><i>Canall</i>  |                 |

LOCATION SKETCH/COMMENTS

SCALE:

See page 15 of the  
soil log book #2 for location  
of DA2-071



HTRW DRILLING LOG

HOLE NUMBER DA2-071

PROJECT: DA2-EVAP

INSPECTOR C. Canall

SHEET 1 OF 1

| ELEV. (A) | DEPTH (B)<br>ft | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOCHEM. SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G) |
|-----------|-----------------|--|-----------------------------|-----------------------------|---------------------------|-------------|
|           | 0               | top 6" organic clay-silt<br>trace of rock fragments,<br>dry, med. gray brown   | 2.47 ppm<br><i>bulky</i>    | N/A                         | DA230-071<br>-0723-50     | roots       |
|           | 0.6             | crumbly brown, silty sand-clay silt<br>w/ roots, dry to damp, trace of rock<br>fragments angular to subangular (2-10mm)              | 2.12 ppm                    |                             |                           |             |
|           | 1.6             | ff gray brown, sand-clay-silt with<br>orange-yellow, trace roots, dry to<br>moist, well sorted,                                      | 2.63 ppm<br><i>soil</i>     | N/A                         | DA230-071<br>-0724-50     | roots       |
|           | 2.6             | graded into<br>sandy-silty-clay - ff brown gray<br>w/ orange yellow trace rock,<br>poorly sorted - fine clay stringer                | 2.33 ppm<br><i>concly.</i>  |                             | DA230-071<br>-0725-50     |             |
|           | 3               | clay-silt-sand - moist to wet, 15-20%<br>quartz/schistose fragments subangular<br>rounded (2-2.5mm) orange mottling, med p. k. silt. |                             |                             |                           |             |
|           | 4               |  |                             |                             |                           |             |
|           | 5               |  |                             |                             |                           |             |
|           | 6               |  |                             |                             |                           |             |
|           | 7               |  |                             |                             |                           |             |
|           | 8               |  |                             |                             |                           |             |
|           | 9               |  |                             |                             |                           |             |
|           | 10              |  |                             |                             |                           |             |
|           | 11              |  |                             |                             |                           |             |
|           | 12              |  |                             |                             |                           |             |
|           | 13              |  |                             |                             |                           |             |
|           | 14              |  |                             |                             |                           |             |
|           | 15              |  |                             |                             |                           |             |

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| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>   |  | HOLE NUMBER <u>DA2-072</u>                    |                 |
| 1. COMPANY NAME<br><u>Spec Pro, Inc</u>  |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u>                                       |  | SHEET <u>1</u> of <u>1</u>                    |                 |
| 3. PROJECT <u>DA2-RVAMP</u>  |  |  | 4. LOCATION <u>Demo 2 Ground Area</u>            |   |                 |
| 5. NAME OF DRILLER   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL <u>n/a</u> |   |                 |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>35 bowl</u><br><u>35 spoon</u><br><u>3 36" Auger bucket</u> |  | 8. HOLE LOCATION <u>DA2-072</u>  |  | 9. SURFACE ELEVATION <u>n/a</u>               |                 |
| 12. OVERBURDEN THICKNESS <u>n/a</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                               |  | 10. DATE STARTED: <u>7-22-02</u>              |                 |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |  | 11. DATE COMPLETED: <u>7-22-02</u>            |                 |
| 14. TOTAL DEPTH OF HOLE <u>3 ft</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/a</u>                 |  |   |                 |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  | UNDISTURBED                                      | 19. TOTAL NUMBER OF CORE BOXES <u>n/a</u>     |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><u>see activity log for analysis</u>  |  | VOC  | METALS   | OTHER (SPECIFY)                               | OTHER (SPECIFY) |
| 21. DISPOSITION OF HOLE<br><u>backfilled</u><br><u>8/5/02</u>  |  | MONITORING WELL  | OTHER (SPECIFY)                                  | 22. SIGNATURE OF INSPECTOR<br><u>C. Small</u> |                 |

LOCATION SKETCH/COMMENTS SCALE

See page 35  
for location of  
DA2-072 in Logbook  
#1

# HTRW DRILLING LOG

HOLE NUMBER **DA2-072**

PROJECT: **DA2-RVAMP**

INSPECTOR: **C. Canall**

SHEET / OF **1**

| ELEV (A) | DEPTH (B)<br>Feet | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR LOG# BOX | ANALYTICAL SAMPLE NO (D) | REMARKS (E)      |
|----------|-------------------|---|-----------------------------|-----------------------------|--------------------------|------------------|
|          | 1                 | Silty sand, lot of organic, pebbly graded, pebbles angular to sub angular, (5-5cm) most low plasticity, med to dk brown | 4.09 ppm                    | n/A                         | DA2-072-0725-50          | roots stems      |
|          | 2                 | Silty clay, poorly graded, pebbles (5-5cm) subangular to sub rounded, most med plasticity, reddish-brown                |                             | n/A                         | DA2-072-0726-50          | hand grade fines |
|          | 3                 | Clay-Silt, med plastic, most to west, mottled red and grays   |                             |                             |                          |                  |
|          | 4                 |   |                             |                             |                          |                  |
|          | 5                 |   |                             |                             |                          |                  |
|          | 6                 |   |                             |                             |                          |                  |
|          | 7                 |   |                             |                             |                          |                  |
|          | 8                 |   |                             |                             |                          |                  |
|          | 9                 |   |                             |                             |                          |                  |
|          | 10                |   |                             |                             |                          |                  |



|   |  |  |   |  |                 |
|---|--|--|---|--|-----------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-673</u>                    |                 |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |   | SHEET <u>1</u> of <u>1</u>                     |                 |
| 3. PROJECT: <u>DA2-RVAMP</u>  |  |  | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |  |                 |
| 5. NAME OF DRILLER: <u>n/A</u>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |  |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>55 bowl</u><br><u>55 scraper</u><br><u>55 3/8" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-673</u>   |   | 9. SURFACE ELEVATION: <u>n/A</u>               |                 |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |   | 10. DATE STARTED: <u>7-19-02</u>               |                 |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |   | 11. DATE COMPLETED: <u>7-19-02</u>             |                 |
| 14. TOTAL DEPTH OF HOLE: <u>3ft</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>                 |   |  |                 |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  | UNDISTURBED                                       | 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u>     |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC  | METALS  | OTHER (SPECIFY)                                | OTHER (SPECIFY) |
| <u>see activity log</u>   |  |  |   |  |                 |
| 22. DISPOSITION OF HOLE: <u>8/5/02</u>  |  | MONITORING WELL  | OTHER (SPECIFY)                                   | 23. SIGNATURE OF INSPECTOR: <u>[Signature]</u> |                 |

LOCATION SKETCH/COMMENTS: See map page 35

SCALE:

for location of DA2-673 in the Soil Log book #1

HTRW DRILLING LOG

HOLE NUMBER DA2-073

PROJECT: DA2-RVAAAP

INSPECTOR: E. J. Mol

SHEET 1 OF 1

| ELEV (A) | DEPTH (B)<br>ft | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)  |
|----------|-----------------|---|-----------------------------|-----------------------------|---------------------------|--|
|          | 1'              | light brown to medium brown silt/medium clay; clay; 210% argillaceous silt/clay; red fragments thin sand. grades into silt/clay with (up to 3") medium-amount of clay | BZ<br>-0.77 mm              | NA                          | DA255-073-0727-50         | Organic matter - roots<br>metal in hole<br>quartz + SS possible                            |
|          | 2'              | Same as above grades into a silt with minor sand. Stronger than silt or medium plastic gray brown clay  | BZ<br>Same as above         | NA                          | DA250-073-0728-50         | Pieces of metal<br>SS + quartz pebbles<br>a piece of coal<br>and a piece of granite pebble |
|          | 3'              | 87-02<br>CC   |                             |                             |                           |  |



|   |  |   |   |   |  |
|---|--|---|---|---|--|
| <b>HTRW DRILLING LOG</b>                              |  | DISTRICT <u>Louisville</u>                |   | HOLE NUMBER <u>D02-074</u>  |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>                |  | 7. DRILL SUBCONTRACTOR<br><u>n/a</u>      |   | SHEET <u>1</u> OF <u>1</u>  |  |
| 3. PROJECT <u>D02-RVAPP Demo Phase II R1</u>          |  |   | 4. LOCATION <u>Demo Area 2 Grounds</u>            |   |  |
| 5. NAME OF DRILLER                                    |  |   | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>n/a</u> |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT |  | 8. HOLE LOCATION <u>Demo Area 2-074</u>   |   | 9. SURFACE ELEVATION <u>n/a</u>   |  |
| <u>35 bowl</u>  |  |   |   | 10. DATE STARTED <u>7-22-02</u>   |  |
| <u>35 spoon</u>                                       |  |   |   | 11. DATE COMPLETED <u>7-24-02</u>                                       |  |
| <u>35 3/8" Auger bucket</u>                           |  |   |   | 12. OVERBURDEN THICKNESS <u>n/a</u>                                     |  |
|   |  |   |   | 13. DEPTH DRILLED INTO ROCK <u>n/a</u>                                  |  |
|   |  |   |   | 14. TOTAL DEPTH OF HOLE <u>3 feet</u>                                   |  |
|   |  |   |   | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                            |  |
|   |  |   |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>n/a</u> |  |
|   |  |   |   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>n/a</u>                 |  |
| 18. GEOTECHNICAL SAMPLES                              |  | 19. TOTAL NUMBER OF CORE BOXES <u>n/a</u> |   |   |  |
|   |  | DISTURBED                                 |   | UNDISTURBED   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                     |  | VOC                                       |   | METALS  |  |
| <u>See description on file</u>                        |  | <u>X</u>                                  |   | <u>X</u>  |  |
|   |  | BACKFILLED                                |   | MONITORING WELL   |  |
|   |  | <u>4/5/02</u>                             |   |   |  |
|   |  |   |   | 21. SIGNATURE OF INSPECTOR <u>C. Canall</u>                             |  |
| 22. EXPOSITION OF HOLE                                |  |   |   | 23. TOTAL CORE RECOVERY   |  |
|   |  |   |   | <u>n/a</u>  |  |

LOCATION SKETCH/COMMENTS

SCALE:

See page 35  
for location  
D02-074 in the  
Soil #1 logbook



### HTRW DRILLING LOG

HOLE NUMBER **DA2-074**

PROJECT: **DA2-RVAPP**

INSPECTOR: **C. Canall**

SHEET 1 OF 1

| ELEV. (A) | DEPTH (B)<br>Feet | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOCHEM. SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)                 |
|-----------|-------------------|---|-----------------------------|-----------------------------|--------------------------|-----------------------------|
|           | 1.0               | Silty-clay well sorted, coarse subrounded to subangular (1-1/2mm) moist, low to med. plasticity med. brown-yellow | 1.0 ppm                     | N/A                         | DA2-074<br>0729-50       | roots, stems<br>metal frags |
|           | 2.0               | Same as above   | 0.4 ppm                     | N/A                         | DA2-074<br>0730-50       | roots,                      |
|           | 20.0              | 8-14-05<br>CC   |                             |                             |                          |                             |

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|   |  |   |   |   |  |
|---|--|---|---|---|--|
| <b>HTRW DRILLING LOG</b>                              |  | DISTRICT <u>Louisville</u>                                  |   | HOLE NUMBER <u>DA2-075</u>  |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>                |  | 2. DRILL SUBCONTRACTOR<br><u>N/A</u>                        |   | SHEET <u>L</u> of <u>L</u>  |  |
| 3. PROJECT: <u>DA2-RVAPP</u>                          |  |   | 4. LOCATION<br><u>Pemo 2 Grounds Area</u>         |   |  |
| 5. NAME OF DRILLER: <u>N/A</u>                        |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u> |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT |  | 8. HOLE LOCATION: <u>DA2-075</u>                            |   |   |  |
| <u>3 bowl</u>   |  | 9. SURFACE ELEVATION <u>N/A</u>                             |   |   |  |
| <u>35 2"m</u>   |  | 10. DATE STARTED: <u>7-31-02</u>                            |   | 11. DATE COMPLETED: <u>7-31-02</u>  |  |
| <u>35 3/8" auger bucket</u>                           |  | 12. OVERBURDEN THICKNESS: <u>N/A</u>                        |   |   |  |
|   |  | 13. DEPTH DRILLED INTO ROCK: <u>N/A</u>                     |   |   |  |
|   |  | 14. TOTAL DEPTH OF HOLE: <u>3-ft</u>                        |   |   |  |
|   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>               |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>N/A</u> |  |
|   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>N/A</u> |   |   |  |
| 18. GEOTECHNICAL SAMPLES                              |  | DISTURBED   |   | UNDISTURBED   |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>            |  |   |   |   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                     |  | VOC   |   | METALS  |  |
| <u>see activity log for analysis</u>                  |  |   |   | OTHER (SPECIFY):  |  |
| 21. TOTAL CORE RECOVERY %: <u>N/A</u>                 |  | OTHER (SPECIFY):  |   | OTHER (SPECIFY):  |  |
| 22. DISPOSITION OF HOLE                               |  | BACKFILLED  |   | MONITORING WELL   |  |
| <u>5/5/02</u>   |  |   |   | OTHER (SPECIFY):  |  |
|   |  | 23. SIGNATURE OF INSPECTOR<br><u>C. Canale</u>              |   |   |  |

LOCATION SKETCH/COMMENTS

SCALE:

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| <p>See page 15 for location of DA2-075 in soil log book #2</p> |  |
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| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Lowville</u>  |  | HOLE NUMBER: <u>DA2-076</u>   |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>N/A</u>                                       |  | SHEET <u>1 of 1</u>   |  |
| 3. PROJECT: <u>DA-RVADP</u>   |  | 4. LOCATION: <u>Demo 2 Ground Area</u>                                   |  |   |  |
| 5. NAME OF DRILLER: <u>N/A</u>  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u>                        |  |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>33 bowl</u><br><u>33 spoon</u><br><u>55.315" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-076</u>   |  | 9. SURFACE ELEVATION: <u>N/A</u>                                    |  |
| 12. OVERBURDEN THICKNESS: <u>N/A</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>                            |  | 10. DATE STARTED: <u>7-30-02</u> 11. DATE COMPLETED: <u>7-30-02</u> |  |
| 13. DEPTH DRILLED INTO ROCK: <u>N/A</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>N/A</u> |  |   |  |
| 14. TOTAL DEPTH OF HOLE: <u>2.80</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>                 |  |   |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |  | UNDISTURBED   |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS  |  | 21. TOTAL CORE RECOVERY: <u>N/A</u>                                 |  |
| See activity log for analysis   |  | VOC  |  | METALS  |  |
| 22. DISPOSITION OF HOLE: <u>drilled</u><br><u>8/15/02</u>   |  | MONITORING WELL  |  | OTHER (SPECIFY):  |  |
|   |  |  |  | 23. SIGNATURE OF INSPECTOR: <u>[Signature]</u>                      |  |

LOCATION SKETCH/COMMENTS

SCALE:

See Page 15 for  
Location of DA2-076  
in the Soil Logbook #2

HTRW DRILLING LOG

HOLE NUMBER DA 2076

PROJECT ARVAMP

INSPECTOR C. Canall

SHEET 1 OF 1

| ELEV. (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)   |
|-----------|-----------|---|-----------------------------|-----------------------------|---------------------------|---|
|           | 0         | Same 3-4"   |                             |                             |                           |   |
|           | 1         | 14 toned brown, silty sand, wet sand clay stringers very small throughout sample moist                      | 2.67 ppm                    | N/A                         | DA 2076<br>0733-50        | dots, stems, metal (??) + blue rocks appeared in 2 holes similar to OD1 |
|           | 1.5       | Silty sand 25% fragment quartz angular to sub rounded (10mm) brown w/ orange mottling - possible metal frag |                             |                             |                           |   |
|           | 1.8       | Silty clay w/ orange mottling, med brown to grey, moist   |                             |                             | DA 2076<br>0734-50        |   |
|           | 2         | Silty sand, brown, orange mottling 10-20% quartz, sandstone pieces angular to sub angular                   | 2.03 ppm                    | N/A                         |                           |   |
|           | 3         | Same as above lower 20% quartz pieces (1-3mm) sub rounded   |                             |                             |                           |   |
|           | 4         | Gray w/ med brown mottling, 60-70% quartz (sandstone pieces, sub angular to rounded 1-30mm) moist to wet    |                             |                             |                           |   |
|           | 5         | Refusal @ 2.8 due to sandstone  |                             |                             |                           |   |
|           | 6         |   |                             |                             |                           |   |
|           | 7         |   |                             |                             |                           |   |
|           | 8         |   |                             |                             |                           |   |
|           | 9         |   |                             |                             |                           |   |
|           | 10        |   |                             |                             |                           |   |

8-20-05  
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|--|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>   |   | HOLE NUMBER <u>DAD-077</u>                 |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |   | 3. WELL LOG # <u>1001</u>                  |  |
| 3. PROJECT: <u>DAD-RUAPP</u>   |  |  | 4. LOCATION: <u>Demo 2 area Grounds</u>           |  |  |
| 5. NAME OF DRILLER: <u>n/A</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |  |  |
| 7. AIDS AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>SS 100W<br/>SS SANDY<br/>SS 3/8" auger bucket</u> |  | 8. HOLE LOCATION: <u>DAD-077</u>   |   | 9. SURFACE ELEVATION: <u>n/A</u>           |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |   | 10. DATE STARTED: <u>7-22-02</u>           |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |   | 11. DATE COMPLETED: <u>7-22-02</u>         |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/A</u>                 |   |  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |   | UNDISTURBED                                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>see activity log</u>   |  | VOC  |   | METALS                                     |  |
| 21. DISPOSITION OF HOLE: <u>JO</u>   |  | BACKFILL   |   | MONITORING WELL                            |  |
|  |  | <u>8/5/02</u>  |   | OTHER (SPECIFY):                           |  |
|  |  |  |   | 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u> |  |
|  |  |  |   | OTHER (SPECIFY):                           |  |
|  |  |  |   | OTHER (SPECIFY):                           |  |
|  |  |  |   | 21. TOTAL CORE RECOVERY: %                 |  |
|  |  |  |   | 22. SIGNATURE OF OPERATOR: <u>Canall</u>   |  |

LOCATION SKETCH/COMMENTS

SCALE:

See page 35  
for sample location  
DAD-077 in  
Soil Logbook #1



HTRW DRILLING LOG

HOLE NUMBER DA2-077

PROJECT: DA2-077-RVAPP

INSPECTOR CT Small

SHEET ( OF )

| ELEV (A) | DEPTH (B)<br>Feet | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEO TECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)                                  |
|----------|-------------------|--|-----------------------------|-----------------------------|---------------------------|--|
|          |                   | Silty - Clay, poorly graded<br>fine pebbles to cobbles size sub angular to sub rounded (1-1/2")<br>red to dk brown                   | F10<br>not available        | N/A                         | DA2-077<br>0735-20        | rocks, stems<br>metal, hand grenade<br>size  |
|          |                   | same as above  |                             |                             |                           |  |
|          |                   | Clay-silt, well graded<br>moist, low to med plasticity,<br>moist to wet, <del>stiff</del><br>steel gray - mottled with<br>red/orange | "                           | N/A                         | DA2-077<br>0736-50        | rocks, stems<br>ball pellets, frags<br>metal |
|          |                   |  |                             |                             |                           |  |

8-14-03  
cc

|  |  |                                      |  |                            |  |
|--|--|--------------------------------------|--|----------------------------|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Coultville</u>           |  | HOLE NUMBER <u>DA2-078</u> |  |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u> |  | SHEET <u>1</u> OF <u>1</u> |  |
| 3. PROJECT <u>DA2-EVAP</u>   |  |                                      | 4. LOCATION <u>Demo 2 Ground Area</u>                                      |                            |  |
| 5. NAME OF DRILLER <u>n/a</u>  |  |                                      | 6. MANUFACTURERS DESIGNATION OF DRILL <u>n/a</u>                           |                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>22 20ml</u><br><u>22 20ml</u><br><u>22 3/4" auger bucket</u> |  |                                      | 8. HOLE LOCATION <u>DA2-078</u>  |                            |  |
|  |  |                                      | 9. SURFACE ELEVATION <u>n/a</u>  |                            |  |
|  |  |                                      | 10. DATE STARTED: <u>7-19-05</u>   |                            | 11. DATE COMPLETED: <u>7-19-05</u>               |
| 12. OVERBURDEN THICKNESS <u>n/a</u>  |  |                                      | 15. DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                               |                            |  |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>   |  |                                      | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |                            |  |
| 14. TOTAL DEPTH OF HOLE <u>3ft</u>   |  |                                      | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/a</u>                 |                            |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED                            | UNDISTURBED  |                            | 19. TOTAL NUMBER OF CORE BOXES                   |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><u>see activity log</u>   |  | VOC                                  | METALS   | OTHER (SPECIFY)            | OTHER (SPECIFY)                                  |
| 22. DISPOSITION OF HOLE<br><u>8/5/05</u>   |  | BACKFILLED                           | MONITORING WELL  | OTHER (SPECIFY)            | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |

LOCATION SKETCH/COMMENTS See map page 35 SCALE:

Location  
of DA2-078  
in the soil logbook #1

44

# HTRW DRILLING LOG

HOLE NUMBER **DA2-878**

PROJECT: **DA2-RVAPP**

INSPECTOR: **El. THOR**

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)                            |
|----------|-----------|--|-----------------------------|----------------------------|---------------------------|--|
|          | 1.0       | medium to dark brown silty clay; towards the bottom of the interval - greenish clay. Trace of sand. Angular to subangular rock (10 <sup>th</sup> to 20 <sup>th</sup> size). Dry. Bottom of core hole - dark brown more damp. | BZ<br>p. 70                 | NA                         | DA255-078-0732 50         | Organic fragments - roots, leaves etc. |
|          | 2.0       | Medium brown silty clay with trace of sand. No rock fragments. Moist; medium plasticity.   | BZ<br>p. 77                 | NA                         | DA250-078-0738-50         |  |
|          | 3.0       |  |                             |                            |                           |  |
|          | 4.0       |  |                             |                            |                           |  |
|          | 5.0       |  |                             |                            |                           |  |
|          | 6.0       |  |                             |                            |                           |  |
|          | 7.0       |  |                             |                            |                           |  |
|          | 8.0       |  |                             |                            |                           |  |
|          | 9.0       |  |                             |                            |                           |  |
|          | 10.0      |  |                             |                            |                           |  |

8-7-75  
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|  |  |                                   |   |                                |                                   |
|--|--|-----------------------------------|---|--------------------------------|-----------------------------------|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>        |   | HOLE NUMBER <u>DA2-079</u>     |                                   |
| 1. COMPANY NAME <u>Spec Drilling</u>   |  | 2. DRILL SUBCONTRACTOR <u>n/a</u> |   | SHEET <u>1 of 1</u>            |                                   |
| 3. PROJECT <u>DA2-EVAMP</u>  |  |                                   | 4. LOCATION <u>MEMO 2 Grounds Area</u>                                      |                                |                                   |
| 5. NAME OF DRILLER <u>n/a</u>  |  |                                   | 6. MANUFACTURERS DESIGNATION OF DRILL <u>n/a</u>                            |                                |                                   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>SS bowl</u><br><u>SS pump</u><br><u>SS 3/2" auger bucket</u> |  |                                   | 8. HOLE LOCATION <u>DA2-079</u>   |                                |                                   |
|  |  |                                   | 9. SURFACE ELEVATION <u>n/a</u>   |                                |                                   |
|  |  |                                   | 10. DATE STARTED <u>7-19-02</u>   |                                | 11. DATE COMPLETED <u>7-19-02</u> |
| 12. OVERBURDEN THICKNESS <u>n/a</u>  |  |                                   | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                               |                                |                                   |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>   |  |                                   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><u>n/a</u> |                                |                                   |
| 14. TOTAL DEPTH OF HOLE <u>3-A</u>   |  |                                   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>n/a</u>                 |                                |                                   |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED                         | UNDISTURBED   | 19. TOTAL NUMBER OF CORE BOXES |                                   |
| 20. SAMPLES FOR CHEMICAL ANALYSIS  |  | VOC                               | METALS  | OTHER (SPECIFY)                | OTHER (SPECIFY)                   |
| <u>See activity log</u>  |  |                                   |   |                                | 21. TOTAL CORE RECOVERY %         |
| 22. DISPOSITION OF HOLE  |  | BAGGED                            | MONITORING WELL   | OTHER (SPECIFY)                | 23. SIGNATURE OF SUPERVISOR       |
| <u>8/5/02</u>  |  |                                   |   |                                | <u>[Signature]</u>                |

LOCATION SKETCH/COMMENTS See map page 35 SCALE:

for location of DA2-079 in the soil log book #1

HTRW DRILLING LOG

HOLE NUMBER D02-079

PROJECT: PA2-RVAPP

INSPECTOR: [Signature]

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS      | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)                                |
|----------|-----------|--|----------------------------------|----------------------------|--------------------------|--|
|          | 0         | Med brown silty clay with fine sand; slightly moist round 2-3mm rock fragments (5%) - 5.5%   | φ.10<br>BZ                       | NA                         | PA25-079-07939.50        | Trace organics<br>Corroded pieces of ferr. |
|          | 1         | light to med brown silty clay; trace sand grading into a medium silty clay with slightly damp. Material is not real cohesive, but is sticky. | φ.95<br>Background<br>1.10<br>BZ | NA                         | PA25-079-07940.50        | Trace organics                             |
|          | 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       |  |                                  |                            |                          |  |

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|   |  |                                   |  |                                    |                            |   |  |
|---|--|-----------------------------------|--|------------------------------------|----------------------------|---|--|
| <b>HTRW DRILLING LOG</b>                                      |  | DISTRICT <u>Louisville</u>        |  |                                    | HOLE NUMBER <u>DA2-080</u> |   |  |
| 1. COMPANY NAME <u>Spec Pro Inc</u>                           |  | 2. DRILL SUBCONTRACTOR <u>n/a</u> |  |                                    | SHEET <u>1</u> OF <u>1</u> |   |  |
| 3. PROJECT <u>RUMS Demo 2 Phase II R1</u>                     |  |                                   | 4. LOCATION <u>Demo Area</u>   |                                    |                            |   |  |
| 5. NAME OF DRILLER: <u>n/a</u>                                |  |                                   | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                        |                                    |                            |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT         |  | 8. HOLE LOCATION: <u>DA2-080</u>  |  |                                    |                            |   |  |
| <u>25 bowl</u>  |  | 9. SURFACE ELEVATION <u>n/a</u>   |  |                                    |                            |   |  |
| <u>35 spoon</u>   |  |                                   |  |                                    |                            |   |  |
| <u>50 3 1/2" auger bucket</u>                                 |  | 10. DATE STARTED: <u>7-11-02</u>  |  | 11. DATE COMPLETED: <u>7-19-02</u> |                            |   |  |
| 12. OVERBURDEN THICKNESS <u>n/a</u>                           |  |                                   | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |                                    |                            |   |  |
| 13. DEPTH DRILLED INTO ROCK <u>n/a</u>                        |  |                                   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |                                    |                            |   |  |
| 14. TOTAL DEPTH OF HOLE <u>3 ft</u>                           |  |                                   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |                                    |                            |   |  |
| 18. GEOTECHNICAL SAMPLES                                      |  | DISTURBED                         |  | UNDISTURBED                        |                            | 19. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSES                             |  | VOC                               |  | METALS                             |                            | OTHER (SPECIFY)                               |  |
| <u>see activity log</u>                                       |  |                                   |  |                                    |                            |   |  |
| 22. DISPOSITION OF HOLE                                       |  | BACTILLED                         |  | MONITORING WELL                    |                            | OTHER (SPECIFY)                               |  |
| <u>8/5/02</u>   |  |                                   |  |                                    |                            | 21. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS <u>See map pg 35</u>                 |  |                                   |  | SCALE:                             |                            |   |  |
| <p>on location of<br/>DA2-080 in the<br/>Soil log book #1</p> |  |                                   |  |                                    |                            |   |  |



### HTRW DRILLING LOG

HOLE NUMBER D02-087

PROJECT D02-RVAA0

INSPECTOR G. J. Nolan

SHEET 1 OF 1

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS              | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)                         |
|----------|-----------|---|--|----------------------------|--------------------------|-------------------------------------|
|          | 1.0       | medium brown to light mottles - silty sand, only a trace of clay; dry                           | Background -1.32<br>BZ<br>p. 14<br>p. 29 | NA                         | D0201-050-0741-50        | Less organics - from previous holes |
|          | 2.0       | medium to light brown silty sand, more sand than upper 0.5' interval; dry; < 2% rock fragments. | BZ<br>p. 38<br>p. 39                     | NA                         | D0250-050-0742-50        | Trace roots.                        |
|          | 3.0       |   |  |                            |                          |                                     |
|          | 4.0       |   |  |                            |                          |                                     |
|          | 5.0       |   |  |                            |                          |                                     |
|          | 6.0       |   |  |                            |                          |                                     |
|          | 7.0       |   |  |                            |                          |                                     |
|          | 8.0       |   |  |                            |                          |                                     |
|          | 9.0       |   |  |                            |                          |                                     |
|          | 10.0      |   |  |                            |                          |                                     |
|          | 11.0      |   |  |                            |                          |                                     |
|          | 12.0      |   |  |                            |                          |                                     |
|          | 13.0      |   |  |                            |                          |                                     |
|          | 14.0      |   |  |                            |                          |                                     |
|          | 15.0      |   |  |                            |                          |                                     |
|          | 16.0      |   |  |                            |                          |                                     |
|          | 17.0      |   |  |                            |                          |                                     |
|          | 18.0      |   |  |                            |                          |                                     |
|          | 19.0      |   |  |                            |                          |                                     |
|          | 20.0      |   |  |                            |                          |                                     |
|          | 21.0      |   |  |                            |                          |                                     |
|          | 22.0      |   |  |                            |                          |                                     |
|          | 23.0      |   |  |                            |                          |                                     |
|          | 24.0      |   |  |                            |                          |                                     |
|          | 25.0      |   |  |                            |                          |                                     |
|          | 26.0      |   |  |                            |                          |                                     |
|          | 27.0      |   |  |                            |                          |                                     |
|          | 28.0      |   |  |                            |                          |                                     |
|          | 29.0      |   |  |                            |                          |                                     |
|          | 30.0      |   |  |                            |                          |                                     |
|          | 31.0      |   |  |                            |                          |                                     |
|          | 32.0      |   |  |                            |                          |                                     |
|          | 33.0      |   |  |                            |                          |                                     |
|          | 34.0      |   |  |                            |                          |                                     |
|          | 35.0      |   |  |                            |                          |                                     |
|          | 36.0      |   |  |                            |                          |                                     |
|          | 37.0      |   |  |                            |                          |                                     |
|          | 38.0      |   |  |                            |                          |                                     |
|          | 39.0      |   |  |                            |                          |                                     |
|          | 40.0      |   |  |                            |                          |                                     |
|          | 41.0      |   |  |                            |                          |                                     |
|          | 42.0      |   |  |                            |                          |                                     |
|          | 43.0      |   |  |                            |                          |                                     |
|          | 44.0      |   |  |                            |                          |                                     |
|          | 45.0      |   |  |                            |                          |                                     |
|          | 46.0      |   |  |                            |                          |                                     |
|          | 47.0      |   |  |                            |                          |                                     |
|          | 48.0      |   |  |                            |                          |                                     |
|          | 49.0      |   |  |                            |                          |                                     |
|          | 50.0      |   |  |                            |                          |                                     |
|          | 51.0      |   |  |                            |                          |                                     |
|          | 52.0      |   |  |                            |                          |                                     |
|          | 53.0      |   |  |                            |                          |                                     |
|          | 54.0      |   |  |                            |                          |                                     |
|          | 55.0      |   |  |                            |                          |                                     |
|          | 56.0      |   |  |                            |                          |                                     |
|          | 57.0      |   |  |                            |                          |                                     |
|          | 58.0      |   |  |                            |                          |                                     |
|          | 59.0      |   |  |                            |                          |                                     |
|          | 60.0      |   |  |                            |                          |                                     |
|          | 61.0      |   |  |                            |                          |                                     |
|          | 62.0      |   |  |                            |                          |                                     |
|          | 63.0      |   |  |                            |                          |                                     |
|          | 64.0      |   |  |                            |                          |                                     |
|          | 65.0      |   |  |                            |                          |                                     |
|          | 66.0      |   |  |                            |                          |                                     |
|          | 67.0      |   |  |                            |                          |                                     |
|          | 68.0      |   |  |                            |                          |                                     |
|          | 69.0      |   |  |                            |                          |                                     |
|          | 70.0      |   |  |                            |                          |                                     |
|          | 71.0      |   |  |                            |                          |                                     |
|          | 72.0      |   |  |                            |                          |                                     |
|          | 73.0      |   |  |                            |                          |                                     |
|          | 74.0      |   |  |                            |                          |                                     |
|          | 75.0      |   |  |                            |                          |                                     |
|          | 76.0      |   |  |                            |                          |                                     |
|          | 77.0      |   |  |                            |                          |                                     |
|          | 78.0      |   |  |                            |                          |                                     |
|          | 79.0      |   |  |                            |                          |                                     |
|          | 80.0      |   |  |                            |                          |                                     |
|          | 81.0      |   |  |                            |                          |                                     |
|          | 82.0      |   |  |                            |                          |                                     |
|          | 83.0      |   |  |                            |                          |                                     |
|          | 84.0      |   |  |                            |                          |                                     |
|          | 85.0      |   |  |                            |                          |                                     |
|          | 86.0      |   |  |                            |                          |                                     |
|          | 87.0      |   |  |                            |                          |                                     |
|          | 88.0      |   |  |                            |                          |                                     |
|          | 89.0      |   |  |                            |                          |                                     |
|          | 90.0      |   |  |                            |                          |                                     |
|          | 91.0      |   |  |                            |                          |                                     |
|          | 92.0      |   |  |                            |                          |                                     |
|          | 93.0      |   |  |                            |                          |                                     |
|          | 94.0      |   |  |                            |                          |                                     |
|          | 95.0      |   |  |                            |                          |                                     |
|          | 96.0      |   |  |                            |                          |                                     |
|          | 97.0      |   |  |                            |                          |                                     |
|          | 98.0      |   |  |                            |                          |                                     |
|          | 99.0      |   |  |                            |                          |                                     |
|          | 100.0     |   |  |                            |                          |                                     |

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|  |  |                                    |  |  |  |                                     |
|--|--|------------------------------------|--|--|--|-------------------------------------|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>        |  |  | HOLE NUMBER: <u>DA2-087</u>                |                                     |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>N/A</u> |  |  | SHEET <u>1</u> of <u>1</u>                 |                                     |
| 3. PROJECT: <u>DA2-EVAAP</u>   |  |                                    | 4. LOCATION: <u>Demo 2 Grounds Area</u>                                  |  |  |                                     |
| 5. NAME OF DRILLER: <u>N/A</u>   |  |                                    | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u>                        |  |  |                                     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>SS bowl<br/>SS spoon<br/>3 3/8" Auger bucket</u> |  |                                    | 8. HOLE LOCATION: <u>DA2-087</u>   |  |  |                                     |
|  |  |                                    | 9. SURFACE ELEVATION: <u>N/A</u>   |  |  |                                     |
|  |  |                                    | 10. DATE STARTED: <u>7-30-02</u>   |  | 11. DATE COMPLETED: <u>7-30-02</u>         |                                     |
| 12. OVERBURDEN THICKNESS: <u>N/A</u>   |  |                                    | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>                            |  |  |                                     |
| 13. DEPTH DRILLED INTO ROCK: <u>N/A</u>  |  |                                    | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>N/A</u> |  |  |                                     |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>   |  |                                    | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>                 |  |  |                                     |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED                          | UNDISTURBED  |  | 19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u> |                                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>See activity log for analysis</u>                                    |  | VOC                                | METALS   | OTHER (SPECIFY)                              | OTHER (SPECIFY)                            | OTHER (SPECIFY)                     |
| 22. DISPOSITION OF HOLE: <u>Backfilled</u>   |  | MONITORING WELL                    | OTHER (SPECIFY)  | 23. SIGNATURE OF INSPECTOR: <u>P. Canale</u> |  | 21. TOTAL CORE RECOVERY: <u>N/A</u> |

LOCATION SKETCH/COMMENTS

SCALE:

See page 15 for location of DA2-087 in the Soil Logbook #2



HTRW DRILLING LOG

HOLE NUMBER DAD-071

PROJECT: DAD-RVAMP

INSPECTOR: C. Canall

SHEET OF

| REV. (A) | DEPTH (ft) | DESCRIPTION OF MATERIALS (f)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (f)  | REMARKS (f)   |
|----------|------------|---|-----------------------------|----------------------------|----------------------------|---|
|          | 0'         | med to dark brown sand with trace silt well sorted, moist   | • 60ppm<br>1.00ppm          | n/A                        | DAD25-081<br>0713-50       | roots, stems blue rocks similar to ODI                  |
|          | 1'         | med to light brown, sandy/trace silt, 30-40% quartz pebbles subangular to angular (3-15mm) 5% sandstone frags - subangular (2-10mm) moist                           |                             |                            | DAD25-081<br>0816-50 (Dmp) | center hole had several threads of clay running through |
|          | 2'         | zone as above - 20% sandstone<br>N. brown sand mottled orange, clay stringers throughout<br>20% sandstone, subangular to angular (2-20mm), grey clay - very plastic | FID malfunction             | n/A                        | DAD25-081<br>0714-50       |   |
|          | 3'         | grey clay - silty - orange mottled<br>silty - orange silty clay - some w/ orange mottling<br>mass, med to high plastic  |                             |                            |                            |   |
|          | 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'       |   |                             |                            |                            |   |

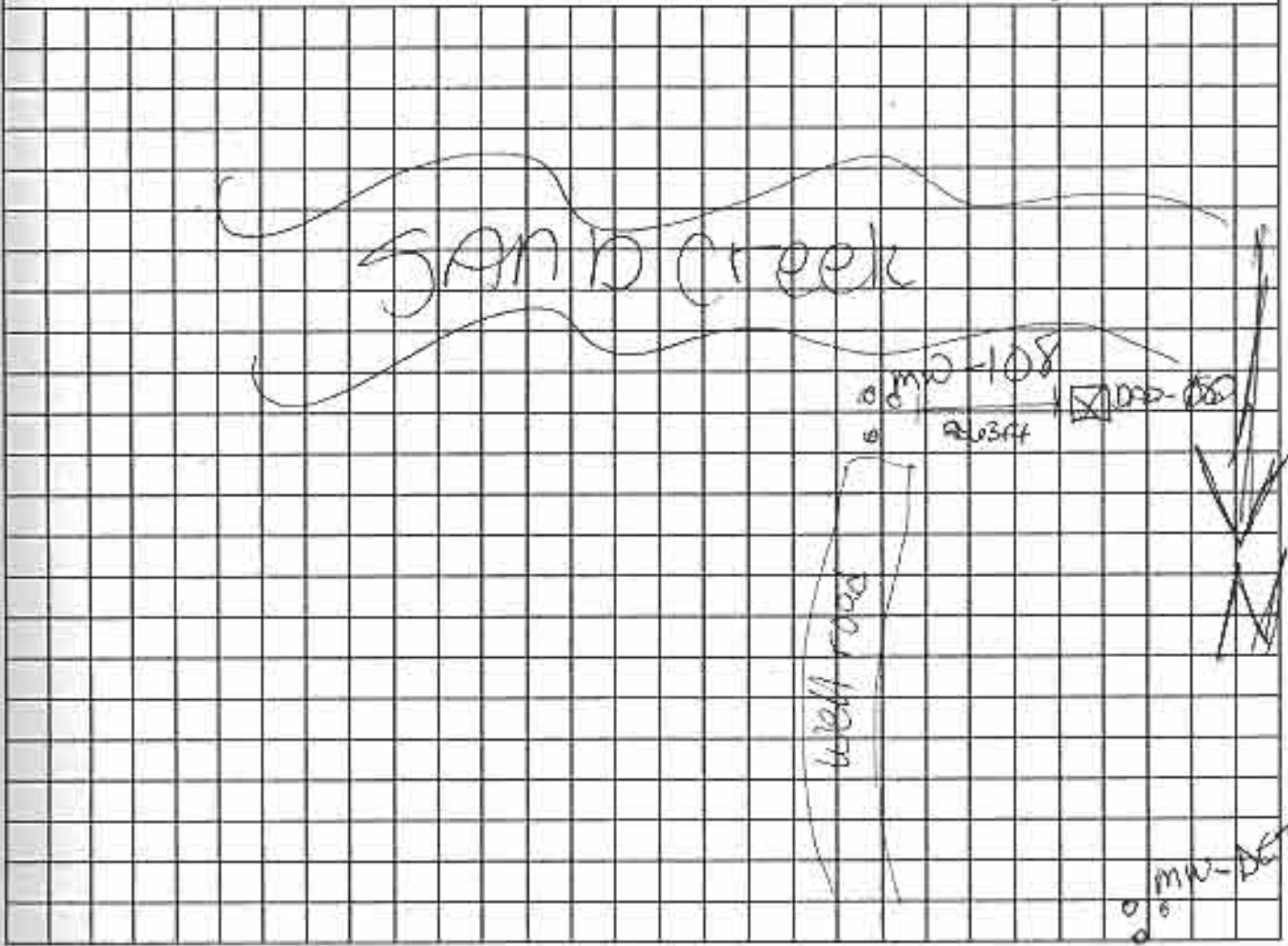
8-20-05  
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|   |  |  |   |  |                 |
|---|--|--|---|--|-----------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <i>Cousinsville</i>   |   | HOLE NUMBER<br><i>DA2-82</i>                   |                 |
| 1. COMPANY NAME<br><i>Spec Pro Inc</i>  |  | 2. DRILL SUBCONTRACTOR<br><i>n/a</i>                                       |   | SHEET <i>1</i> of <i>1</i>                     |                 |
| 3. PROJECT<br><i>EA2-RVAPP</i>  |  |  | 4. LOCATION<br><i>Demo 2 Grounds Area</i>           |  |                 |
| 5. NAME OF DRILLER<br><i>n/a</i>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL<br><i>n/a</i> |  |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><i>33 AWL<br/>33-30mm<br/>33 3/8" Auger bucket</i> |  | 8. HOLE LOCATION<br><i>DA2-082</i>   |   | 9. SURFACE ELEVATION<br><i>n/a</i>             |                 |
| 12. OVERBURDEN THICKNESS<br><i>n/a</i>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><i>n/a</i>                            |   | 10. DATE STARTED<br><i>8-1-02</i>              |                 |
| 13. DEPTH DRILLED INTO ROCK<br><i>n/a</i>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><i>n/a</i> |   | 11. DATE COMPLETED<br><i>8-1-02</i>            |                 |
| 14. TOTAL DEPTH OF HOLE<br><i>3 ft</i>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><i>n/a</i>                 |   |  |                 |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  | UNDISTURBED   | 19. TOTAL NUMBER OF CORE BOXES<br><i>n/a</i>   |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><i>see activity log for analysis</i>                                   |  | VOC  | METALS  | OTHER (SPECIFY)                                | OTHER (SPECIFY) |
| 21. TOTAL CORE RECOVERY<br><i>n/a</i>   |  | 22. DISPOSITION OF HOLE<br><i>n/a</i>                                      | SANDFILLED<br><i>8/5/02</i>                         | MONITORING WELL                                | OTHER (SPECIFY) |
|   |  |  |   | 23. SIGNATURE OF INSPECTOR<br><i>C. Canall</i> |                 |

LOCATION SKETCH/COMMENTS

SCALE: *not to scale*



HTRW DRILLING LOG

HOLE NUMBER DAP-082

PROJECT: DAP-RUAP

INSPECTOR: C. Canall

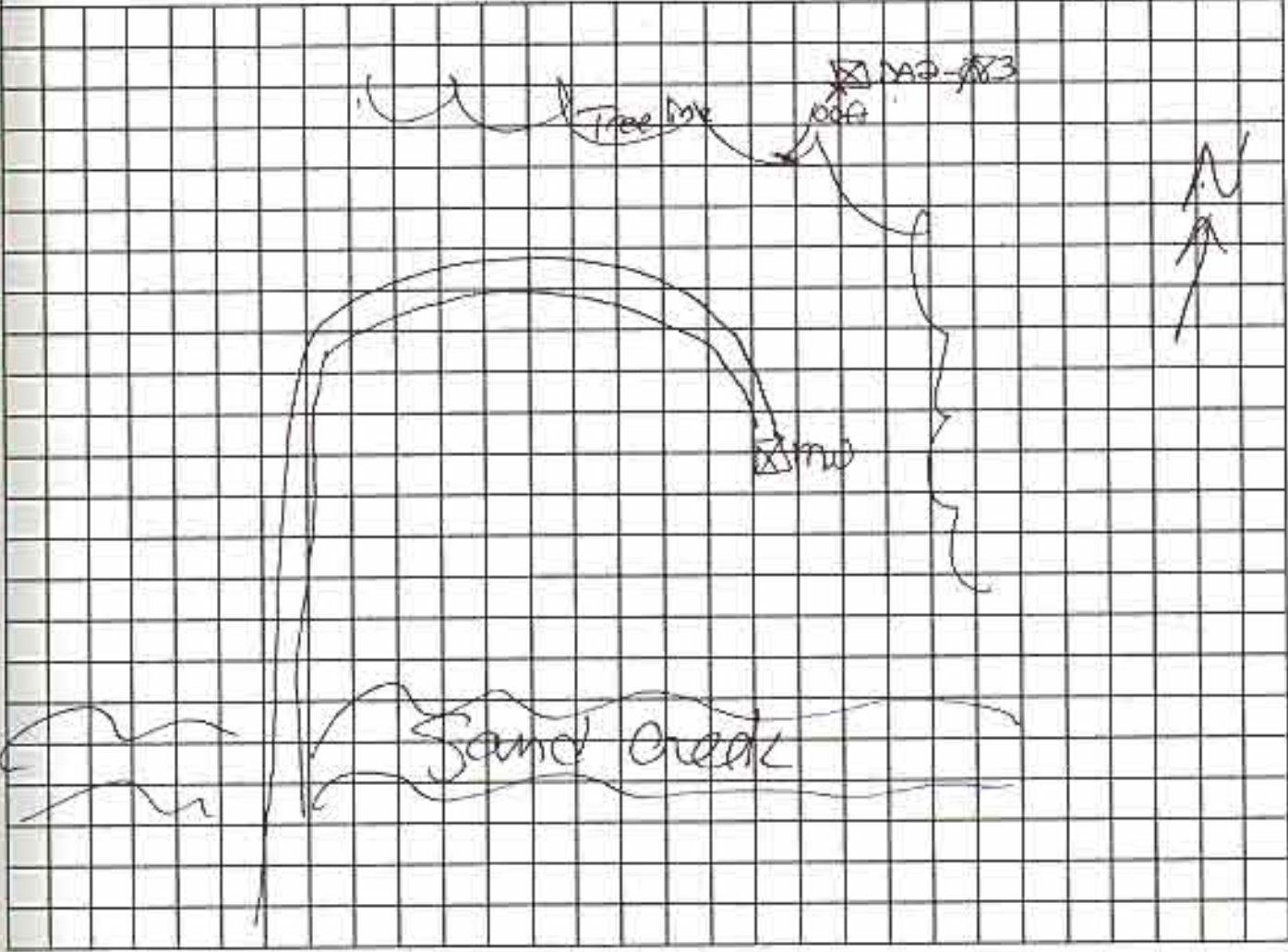
SHEET 1 OF 1

| ELEV. (A)     | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GUTTICH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)  |
|---------------|-----------|---|-----------------------------|----------------------------|--------------------------|--------------|
|               | 11.0      | Sticky clay, moist, low plasticity, well sorted orange brown mottled finely with orange and gray          | not available               | N/A                        | DAP25-082<br>0745-50     | roots, stems |
|               |           | Same as above   |                             |                            |                          |              |
|               | 12.0      | Sticky clay, trace sand, well sorted, orange brown with orange and gray mottling                          | not available               | N/A                        | DAP30-082<br>0746-50     |              |
|               | 13.0      | graded into more sand towards end of sample at the last 1-2" quartz pebbles (1-6mm) rounded to subrounded |                             |                            |                          |              |
| 8-20-02<br>CC |           |   |                             |                            |                          |              |



|   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>                              |  | HOLE NUMBER: <u>DA2-083</u>  |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                       |  | SHEET <u>1 of 1</u>  |  |
| 3. PROJECT: <u>DA2-RVAAP</u>  |  | 4. LOCATION: <u>Demo Ground Area 2</u>                   |  |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>        |  |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><u>SS POW1</u><br><u>SS SPAN</u><br><u>SS 3 1/2" Auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-083</u>                         |  | 9. SURFACE ELEVATION: <u>n/a</u>   |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  | 10. DATE STARTED: <u>7-24-02</u>                         |  | 11. DATE COMPLETED: <u>7-24-02</u>                                       |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 feet</u>  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u> |  |  |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |  | UNDISTURBED  |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                        |  | 21. TOTAL CORE RECOVERY %  |  |
|   |  | VOC  |  | METALS   |  |
|   |  |  |  | OTHER (SPECIFY): <u>EXPLOSIVES</u>                                       |  |
| 22. DISPOSITION OF HOLE   |  | BACKFILLED   |  | MONITORING WELL  |  |
|   |  | <u>8/5/02</u>  |  | OTHER (SPECIFY):   |  |
|   |  |  |  | 23. SIGNATURE OF INSPECTOR: <u>C. Small</u>                              |  |

LOCATION SKETCH/COMMENTS SCALE: not to scale





### HTRW DRILLING LOG

HOLE NUMBER **DA2-073**

PROJECT: **DA2-RVADP**

INSPECTOR **C. Conall**

SHEET **1** OF **1**

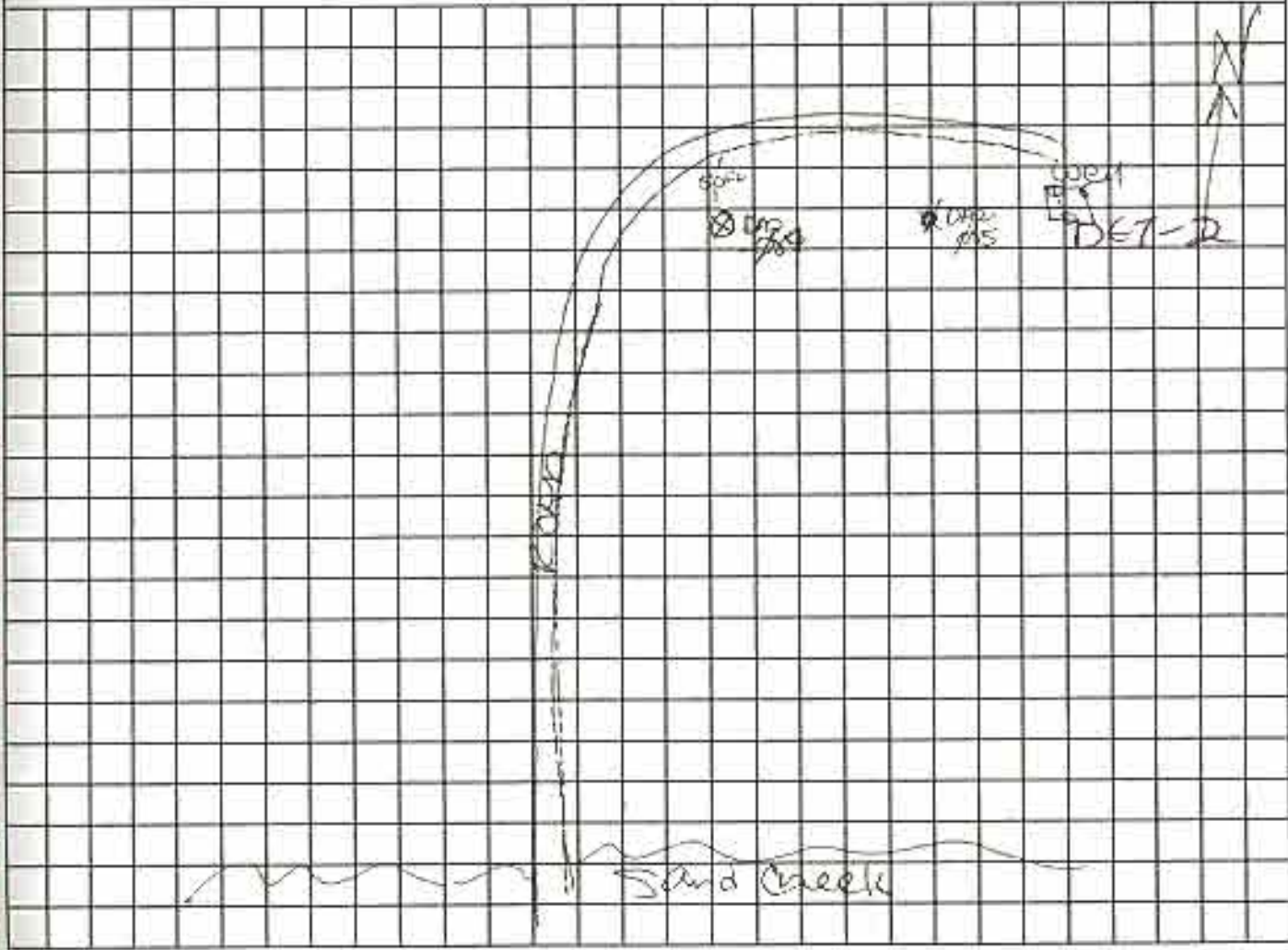
| ELEV. (A) | DEPTH (B)<br>Feet | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GROTECT SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)  |
|-----------|-------------------|--|-----------------------------|----------------------------|---------------------------|--|
|           |                   | top organic layer  | not available               | N/A                        | DA2-073<br>0747-50        | roots, leaves  |
|           | 0.6               | finny clay, well sorted, low plasticity moist to dry, yellowish tan mottled w/ organics and red orange |                             |                            |                           | cc<br>of <del>medium</del> gravel size rocks appeared in center hole subdivided (1-4cm) to 2mm regular |
|           | 1                 | Same as above  | not available               | N/A                        | DA2-073<br>0748-50        |  |
|           | 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                |  |                             |                            |                           |  |

8-15-02  
cc

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>  |  | HOLE NUMBER: <u>DA2-084</u>                 |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                                       |  | DEPT: <u>L of L</u>                         |  |
| 3. PROJECT: <u>DA2-RVAMP</u>   |  |  | 4. LOCATION: <u>DA2 <sup>Remo</sup> Grounds Area</u> |   |  |
| 5. NAME OF DRILLER: <u>n/a</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>    |   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><u>SS bowl</u><br><u>SS spoon</u><br><u>25 3/4" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-084</u>   |  | 9. SURFACE ELEVATION: <u>n/a</u>            |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |  | 10. DATE STARTED: <u>7/18/02</u>            |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  | 11. DATE COMPLETED: <u>7-18-02</u>          |  |
| 14. TOTAL DEPTH OF HOLE: <u>3 ft</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>                 |  |   |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED  |  | UNDISTURBED                                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>see activity log</u>   |  | VOC  |  | METALS                                      |  |
| 22. DISPOSITION OF HOLE: <u>8/5/02</u>   |  | MONITORING WELL  |  | OTHER (SPECIFY)                             |  |
|  |  |  |  | 19. TOTAL NUMBER OF CORE BOXES              |  |
|  |  |  |  | OTHER (SPECIFY)                             |  |
|  |  |  |  | OTHER (SPECIFY)                             |  |
|  |  |  |  | 21. TOTAL CORE RECOVERY %                   |  |
|  |  |  |  | 23. SIGNATURE OF INSPECTOR: <u>C. Canal</u> |  |

LOCATION SKETCH/COMMENTS

SCALE: not to scale



# HTRW DRILLING LOG

HOLE NUMBER *02-14*

PROJECT: *DAO - R/VAMP*

INSPECTOR: *C. Small*

SHEET (OF 1)

| ELEV. (A)        | DEPTH (B) <i>ft</i> | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GDT/CEH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)          | REMARKS (G)   |
|------------------|---------------------|--|-----------------------------|----------------------------|------------------------------------|---|
|                  | 1                   | <i>5. dry sand, with gravel, gravel angular to subangular, 5-10mm. Moist, low plasticity, light to med brown. Shells at 6" - similar but larger, gravel (10-15cm) and color like med gray.</i> | <i>1.00 gm soil = 97 gm</i> | <i>n/a</i>                 | <i>DA 200-084 074150</i>           | <i>blue colored rocks same as OD, CB pits roots, stems, frags</i> |
|                  | 2                   | <i>Thin silty clay 2-3" thick. Used plasticity, med, dk gray returns to above description with long cobble angular to subangular.</i>  | <i>1.00 gm</i>              | <i>n/a</i>                 | <i>DA 200-084 075050 full size</i> | <i>white, frags, binned roots organics</i>                        |
|                  | 3                   | <i>Bluish clay layer appears at 2.5 approximately 5" wide. Clayst 4, med plasticity, moist dk gray brown.</i>  |                             |                            |                                    |   |
| <i>8-7-05 CC</i> |                     |  |                             |                            |                                    |   |



|   |  |                                       |   |                                  |                               |   |
|---|--|---------------------------------------|---|----------------------------------|-------------------------------|---|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <i>Louisville</i>            |   |                                  | HOLE NUMBER<br><i>DA2-685</i> |   |
| 1. COMPANY NAME:<br><i>Spec Pro Inc</i>   |  | 2. DRILL SUBCONTRACTOR:<br><i>n/A</i> |   |                                  | SHEET <i>1</i> OF <i>1</i>    |   |
| 3. PROJECT: <i>DA2-EVAPP</i>  |  |                                       | 4. LOCATION: <i>Demo 2 Grounds Area</i>                                     |                                  |                               |   |
| 5. NAME OF DRILLER: <i>n/A</i>  |  |                                       | 6. MANUFACTURERS DESIGNATION OF DRILL: <i>n/A</i>                           |                                  |                               |   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br><i>33 5/16" bit<br/>33 spoon<br/>33 3/4" auger bucket</i> |  | 8. HOLE LOCATION: <i>DA2-685</i>      |   | 9. SURFACE ELEVATION: <i>n/A</i> |                               |   |
| 12. OVERBURDEN THICKNESS: <i>n/A</i>  |  |                                       | 15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/A</i>                               |                                  |                               |   |
| 13. DEPTH DRILLED INTO ROCK: <i>n/A</i>   |  |                                       | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:<br><i>n/A</i> |                                  |                               |   |
| 14. TOTAL DEPTH OF HOLE: <i>3 ft</i>  |  |                                       | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><i>n/A</i>                 |                                  |                               |   |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED                             |   | UNDISTURBED                      |                               | 19. TOTAL NUMBER OF CORE BOXES                |
| 20. SAMPLES FOR CHEMICAL ANALYSIS:<br><i>see activity log</i>   |  | VOC                                   |   | METALS                           |                               | OTHER (SPECIFY)                               |
| 21. DISPOSITION OF HOLE:<br><i>abandoned</i>  |  | MONITORING WELL                       |   | OTHER (SPECIFY)                  |                               | 22. SIGNATURE OF DIRECTOR:<br><i>C. Anall</i> |
| LOCATION SKETCH/COMMENTS  |  |                                       |   |                                  |                               | SCALE: <i>see page</i>                        |
|   |  |                                       |   |                                  |                               |   |

### HTRW DRILLING LOG

HOLE NUMBER DWS-185

PROJECT: DWS-RVAPP

INSPECTOR: C. Small

SHEET / OF 1

| ELEV (A) | DEPTH (B)<br>feet | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (D)         | REMARKS (E)                           |
|----------|-------------------|---|-----------------------------|----------------------------|----------------------------------|---------------------------------------|
|          | 0.8               | 3/4" clay, low plasticity; moist, fairly good, small angular to sub-angular, iron oxide stained med. brown (1-10cm) clay layer at 1" - dk grey (?) returns to above | 29 ppm<br>1.12 soil, ppm    | N/A                        | DWS-185-175-50                   | roots, stems frag, metal pieces       |
|          | 2.0               | Same as above   |                             |                            |                                  |                                       |
|          | 2.5               | Clay layer, dk grey, appears buried to returns to above   | 296 ppm                     | N/A                        | DWS-185-175-50<br>DWS-185-175-50 | metal<br>old hay? old US roots, stems |
|          | 3.0               |   |                             |                            |                                  |                                       |
|          | 4.0               |   |                             |                            |                                  |                                       |
|          | 5.0               |   |                             |                            |                                  |                                       |
|          | 6.0               |   |                             |                            |                                  |                                       |
|          | 7.0               |   |                             |                            |                                  |                                       |
|          | 8.0               |   |                             |                            |                                  |                                       |
|          | 9.0               |   |                             |                            |                                  |                                       |
|          | 10.0              |   |                             |                            |                                  |                                       |
|          | 11.0              |   |                             |                            |                                  |                                       |
|          | 12.0              |   |                             |                            |                                  |                                       |
|          | 13.0              |   |                             |                            |                                  |                                       |
|          | 14.0              |   |                             |                            |                                  |                                       |
|          | 15.0              |   |                             |                            |                                  |                                       |
|          | 16.0              |   |                             |                            |                                  |                                       |
|          | 17.0              |   |                             |                            |                                  |                                       |
|          | 18.0              |   |                             |                            |                                  |                                       |
|          | 19.0              |   |                             |                            |                                  |                                       |
|          | 20.0              |   |                             |                            |                                  |                                       |
|          | 21.0              |   |                             |                            |                                  |                                       |
|          | 22.0              |   |                             |                            |                                  |                                       |
|          | 23.0              |   |                             |                            |                                  |                                       |
|          | 24.0              |   |                             |                            |                                  |                                       |
|          | 25.0              |   |                             |                            |                                  |                                       |
|          | 26.0              |   |                             |                            |                                  |                                       |
|          | 27.0              |   |                             |                            |                                  |                                       |
|          | 28.0              |   |                             |                            |                                  |                                       |
|          | 29.0              |   |                             |                            |                                  |                                       |
|          | 30.0              |   |                             |                            |                                  |                                       |
|          | 31.0              |   |                             |                            |                                  |                                       |
|          | 32.0              |   |                             |                            |                                  |                                       |
|          | 33.0              |   |                             |                            |                                  |                                       |
|          | 34.0              |   |                             |                            |                                  |                                       |
|          | 35.0              |   |                             |                            |                                  |                                       |
|          | 36.0              |   |                             |                            |                                  |                                       |
|          | 37.0              |   |                             |                            |                                  |                                       |
|          | 38.0              |   |                             |                            |                                  |                                       |
|          | 39.0              |   |                             |                            |                                  |                                       |
|          | 40.0              |   |                             |                            |                                  |                                       |
|          | 41.0              |   |                             |                            |                                  |                                       |
|          | 42.0              |   |                             |                            |                                  |                                       |
|          | 43.0              |   |                             |                            |                                  |                                       |
|          | 44.0              |   |                             |                            |                                  |                                       |
|          | 45.0              |   |                             |                            |                                  |                                       |
|          | 46.0              |   |                             |                            |                                  |                                       |
|          | 47.0              |   |                             |                            |                                  |                                       |
|          | 48.0              |   |                             |                            |                                  |                                       |
|          | 49.0              |   |                             |                            |                                  |                                       |
|          | 50.0              |   |                             |                            |                                  |                                       |

8-7-02  
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|  |  |   |   |                                   |  |
|--|--|---|---|-----------------------------------|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT <u>Louisville</u>  |   | HOLE NUMBER <u>DA2-086</u>        |  |
| 1 COMPANY NAME<br><u>Spectro Inc</u>   |  | 2 DRILL SUBCONTRACTOR<br><u>n/a</u>                                       |   | SHEET <u>1 of 1</u>               |  |
| 3 PROJECT <u>DA2-RVAP</u>  |  |   | 4 LOCATION <u>Demo Area 2</u>                   |                                   |  |
| 5 NAME OF DRILLER <u>n/a</u>   |  |   | 6 MANUFACTURERS DESIGNATION OF DRILL <u>n/a</u> |                                   |  |
| 7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>SS Down<br/>SS Spoon<br/>25 3/8" auger bucket</u> |  | 8 HOLE LOCATION <u>DA2-086</u>  |   | 9 SURFACE ELEVATION <u>n/a</u>    |  |
| 12 OVERBURDEN THICKNESS <u>n/a</u>   |  | 15 DEPTH GROUNDWATER ENCOUNTERED <u>n/a</u>                               |   | 10 DATE STARTED: <u>7-24-02</u>   |  |
| 13 DEPTH DRILLED INTO ROCK <u>n/a</u>  |  | 16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |   | 11 DATE COMPLETED: <u>7-24-02</u> |  |
| 14 TOTAL DEPTH OF HOLE<br><u>3 ft</u>  |  | 17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/a</u>                 |   |                                   |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED   |   | UNDISTURBED                       |  |
| 20 SAMPLES FOR CHEMICAL ANALYSIS   |  | VOC   |   | METALS                            |  |
| 22 DISPOSITION OF HOLE   |  | MONITORING WELL   |   | OTHER (SPECIFY)                   |  |
|  |  | 21 TOTAL CORE RECOVERY  |   | 23. SIGNATURE OF INSPECTOR        |  |

LOCATION SKETCH/COMMENTS SCALE:

See Page 31 for  
Location of DA2-086  
in the Soil Logbook #1



### HTRW DRILLING LOG

HOLE NUMBER **DA2-086**

PROJECT: **DA2-EVARTO**

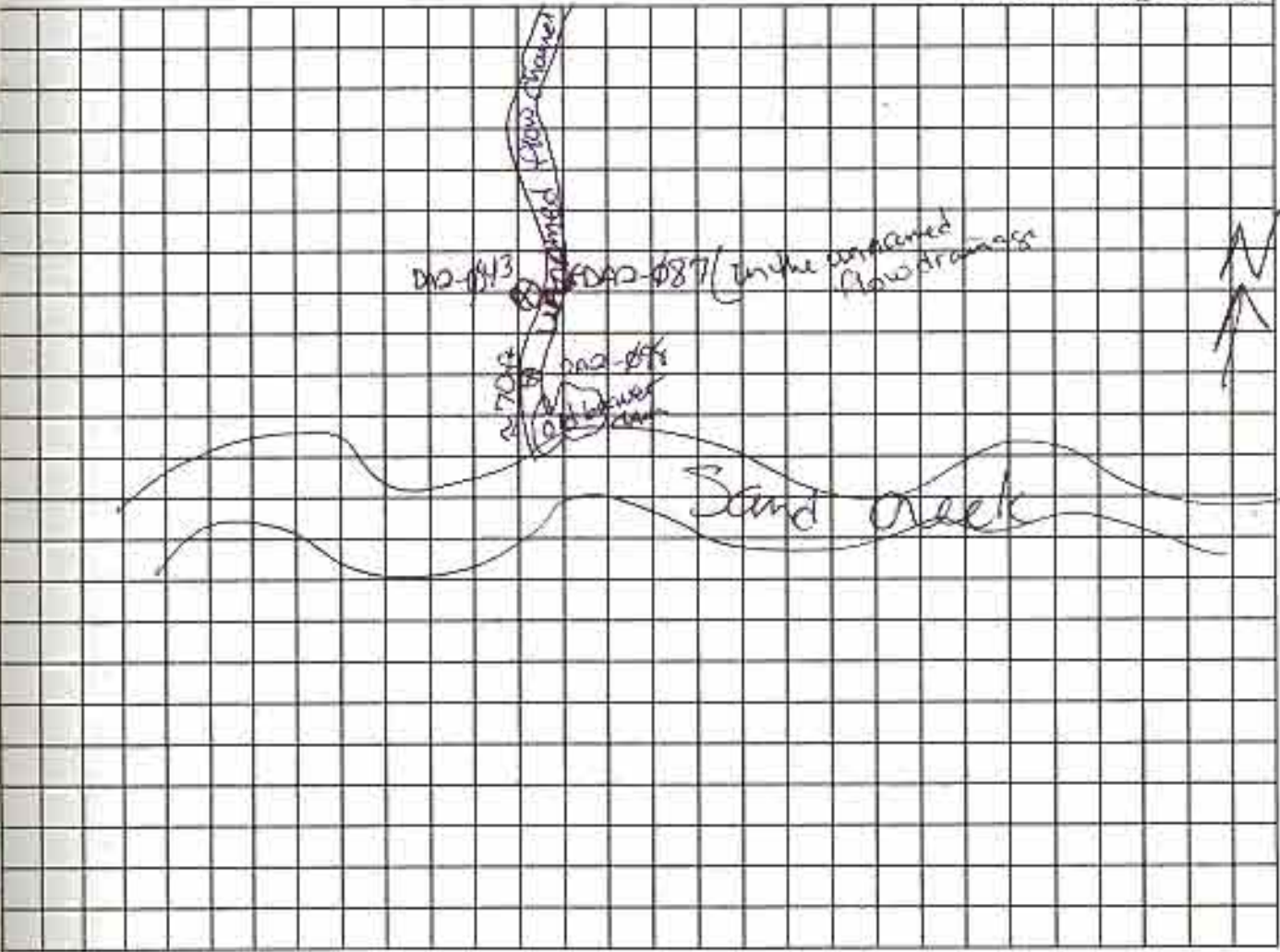
INSPECTOR: **C. Canall**

SHEET / OF /

| ELEV (A) | DEPTH (Feet) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G)                   |
|----------|--------------|---|-----------------------------|----------------------------|--------------------------|-------------------------------|
|          | 0.5          | Silty sandy clay, poorly sorted gravel (1-10cm) sub angular to sub rounded, moist, low plasticity yellowish med. brown            | not available               | N/A                        | DA2-086-0753-50          | roots, stems, road gravel (?) |
|          | 1            | Same as above with more gravel (and larger) 1-50cm  | not available               | N/A                        | DA2-086-0754-50          |                               |
|          | 2.5          | Silty clay, poorly sorted, some angular to sub angular gravel med plasticity moist to wet yellowish brown with some grey mottling |                             |                            |                          | bluish rocks & metal pieces   |
|          | 8-15         | 8-15-03 CC  |                             |                            |                          |                               |

|   |  |                                    |  |  |  |
|---|--|------------------------------------|--|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>        |  | HOLE NUMBER: <u>DA2-087</u>                  |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u> |  | 3. WELL LOG: <u>see Log</u>                  |  |
| 3. PROJECT: <u>DA2-RVMP</u>   |  |                                    | 4. LOCATION: <u>Demo 2 Grounds Area</u>                                  |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |                                    | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u>                        |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>55 bowl</u><br><u>7.1 boom</u><br><u>3/4" auger bucket cc</u><br><u>7-26-03</u> |  |                                    | 8. HOLE LOCATION: <u>DA2-087</u>   |  |  |
|   |  |                                    | 9. SURFACE ELEVATION: <u>n/a</u>   |  |  |
|   |  |                                    | 10. DATE STARTED: <u>7-26-03</u>   |  | 11. DATE COMPLETED: <u>7-26-03</u>         |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  |                                    | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  |                                    | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>6"</u>  |  |                                    | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>2-3" where sampled</u>  |  |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED:                         | UNDISTURBED  |  | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u> |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>See activity log for analysis</u>   |  | VOC                                | METALS   | OTHER (SPECIFY)                              | OTHER (SPECIFY)                            |
| 22. DISPOSITION OF HOLE: <u>n/a</u>   |  | SACRIFICED                         | MONITORING WELL  | OTHER (SPECIFY)                              | 21. TOTAL CORE RECOVERY: <u>n/a</u>        |
|   |  |                                    |  | 23. SIGNATURE OF INSPECTOR: <u>C. Canall</u> |  |

LOCATION SKETCH/COMMENTS SCALE: not to scale



HTRW DRILLING LOG

HOLE NUMBER ~~DA2-087~~

PROJECT: ~~DA2-RVA~~

INSPECTOR: C. Canale

SHEET 1 OF 1

| ELEV. (A) | DEPTH (B)<br>feet | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F)     | REMARKS (G)                     |
|-----------|-------------------|---|-----------------------------|----------------------------|-------------------------------|---------------------------------|
|           | 6"                | Dk. grey sand, lots of mica, some<br>small rounded cobbles, some quartz<br>wt. low plasticity, poorly<br>sorted, size (2-20mm) dark<br>grey brown | not available               | N/A                        | <del>DA2-087</del><br>1755-SD | water in hanging<br>approx 2-3" |
|           |                   |   |                             |                            |                               |                                 |



|  |  |   |  |  |                            |
|--|--|---|--|--|----------------------------|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: Louisville  |  | HOLE NUMBER: DA2-088                       |                            |
| 1. COMPANY NAME: Spec Pro Inc  |  | 2. DRILL SUBCONTRACTOR: n/a   |  | DEPT: 101                                  |                            |
| 3. PROJECT: DA2-EVAPP  |  |   | 4. LOCATION: Demo 2 Grounds Area           |  |                            |
| 5. NAME OF DRILLER: n/a  |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: n/a |  |                            |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br>SS bowl<br>SS spinner |  | 8. HOLE LOCATION: DA2-088   |  |  |                            |
|  |  | 9. SURFACE ELEVATION: n/a   |  |  |                            |
|  |  | 10. DATE STARTED: 7-26-02   |  | 11. DATE COMPLETED: 7-26-02                |                            |
| 12. OVERBURDEN THICKNESS: n/a  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: n/a  |  |  |                            |
| 13. DEPTH DRILLED INTO ROCK: n/a   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a   |  |  |                            |
| 14. TOTAL DEPTH OF HOLE: 6''   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br>water in puddles - 2' deep, day prior <sup>was flowing</sup> |  |  |                            |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED   |  | UNDISTURBED                                |                            |
| 20. SAMPLES FOR CHEMICAL ANALYSIS:<br>See activity log for analysis            |  | VOC   | METALS                                     | OTHER (SPECIFY)                            | OTHER (SPECIFY)            |
| 22. DISPOSITION OF HOLE:<br>n/a  |  | SADDLED   | MONITORING WELL                            | OTHER (SPECIFY)                            | 21. TOTAL CORE RECOVERY: % |
| 19. TOTAL NUMBER OF CORE BOXES   |  |   |  | 23. SIGNATURE OF INSPECTOR:<br>C. L. Small |                            |

LOCATION SKETCH/COMMENTS

SCALE:

go to page 7/10  
 location of DA2-088  
 in a drilling book #1

# HTRW DRILLING LOG

HOLE NUMBER D2-158 120

PROJECT: D2-RVAP

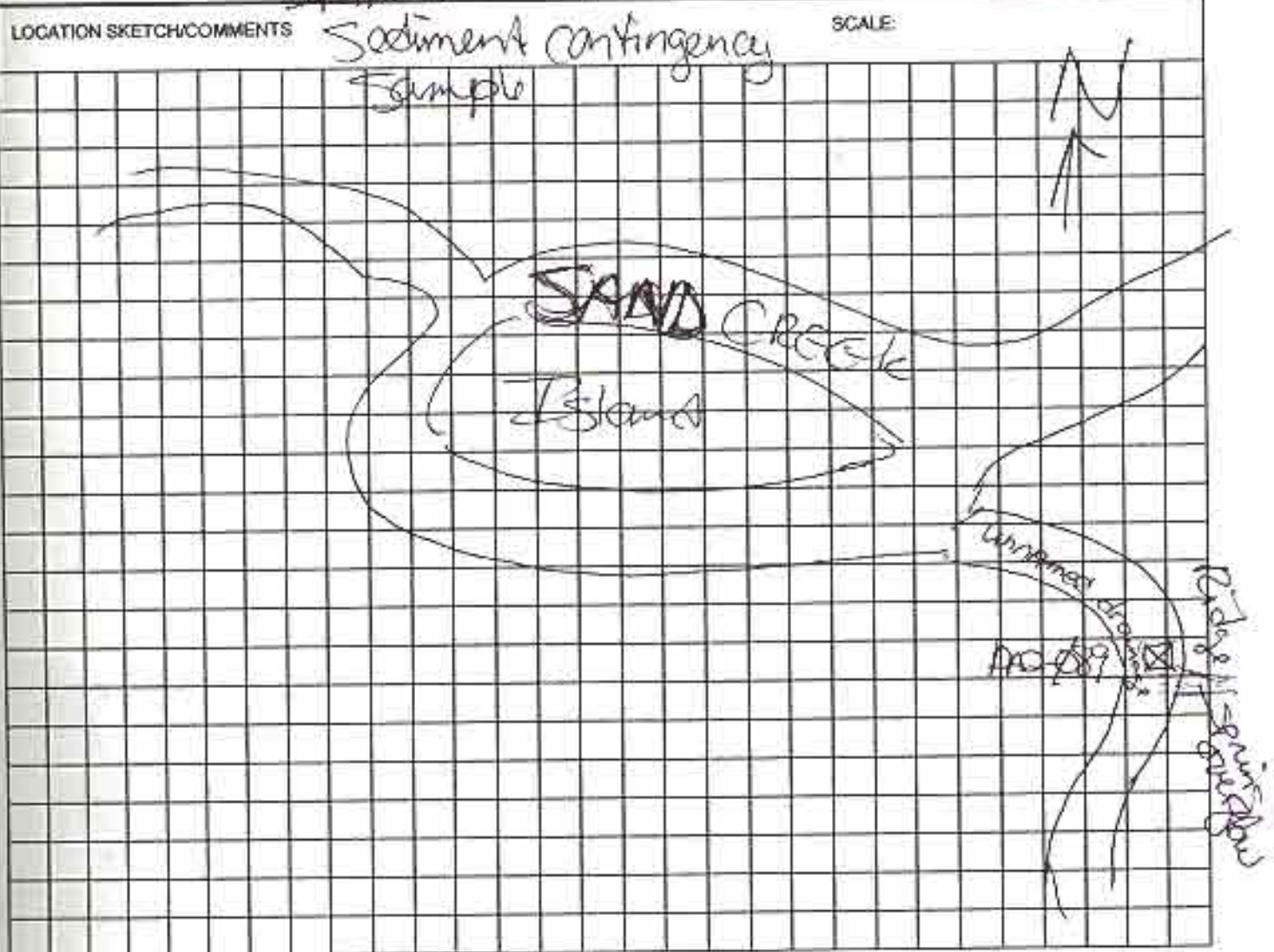
INSPECTOR C. Small

SHEET / OF /

| ELEV (A)   | DEPTH (B)<br>in feet   | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G)  |
|--|--|---|-----------------------------|----------------------------|---------------------------|--|
|  | 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50 | <p>20-25% angular to subangular (1-10mm) quartz and other min. <del>clay</del> clay, some lags of clay, dk gray brown, very wet</p> | not available               | N/A                        | D2-158-100<br>D2-158-100  | <p>Frags water 2" deep however was puddled and not flowing that day.</p> |
| <p style="font-size: 2em; transform: rotate(-45deg);">8-15 TP CC</p> |  |   |                             |                            |                           |  |



|  |  |   |   |  |  |
|--|--|---|---|--|--|
| <b>HTRW DRILLING LOG</b>                               |  | DISTRICT: <u>Louisville</u>                               |   | HOLE NUMBER: <u>DA2-089</u>  |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>                   |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                        |   | SHEET: <u>1 of 1</u>   |  |
| 3. PROJECT: <u>DA2 R VADP</u>                          |  |   | 4. LOCATION: <u>Demo<sup>2</sup> Ground Area</u>  |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>                         |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: |  | 8. HOLE LOCATION: <u>DA2-089</u>                          |   | 9. SURFACE ELEVATION: <u>n/a</u>   |  |
| <u>33 bowl</u>   |  |   |   | 10. DATE STARTED: <u>8-4-02</u>  |  |
| <u>35 spdm</u>   |  |   |   | 11. DATE COMPLETED: <u>8-1-05</u>  |  |
| <u>35</u>  |  |   |   | 12. OVERBURDEN THICKNESS: <u>n/a</u>                                     |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>                |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>             |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |
| 14. TOTAL DEPTH OF HOLE: <u>6"</u>                     |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>1-2"</u> |   |  |  |
| 18. GEOTECHNICAL SAMPLES                               |  | DISTURBED   |   | UNDISTURBED  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                      |  | VOC   |   | METALS   |  |
| <u>sed activity lg</u>                                 |  |   |   | OTHER (SPECIFY)  |  |
| 21. DISPOSITION OF HOLE                                |  | SACRILLARY  |   | MONITORING WELL  |  |
| <u>g</u>   |  | <u>W/ST/2000-22-02</u>                                    |   | OTHER (SPECIFY)  |  |
|  |  |   |   | 23. SIGNATURE OF INSPECTOR: <u>C. Canell</u>                             |  |
| 19. TOTAL NUMBER OF CORE BOXES                         |  | 21. TOTAL CORE RECOVERY %                                 |   |  |  |



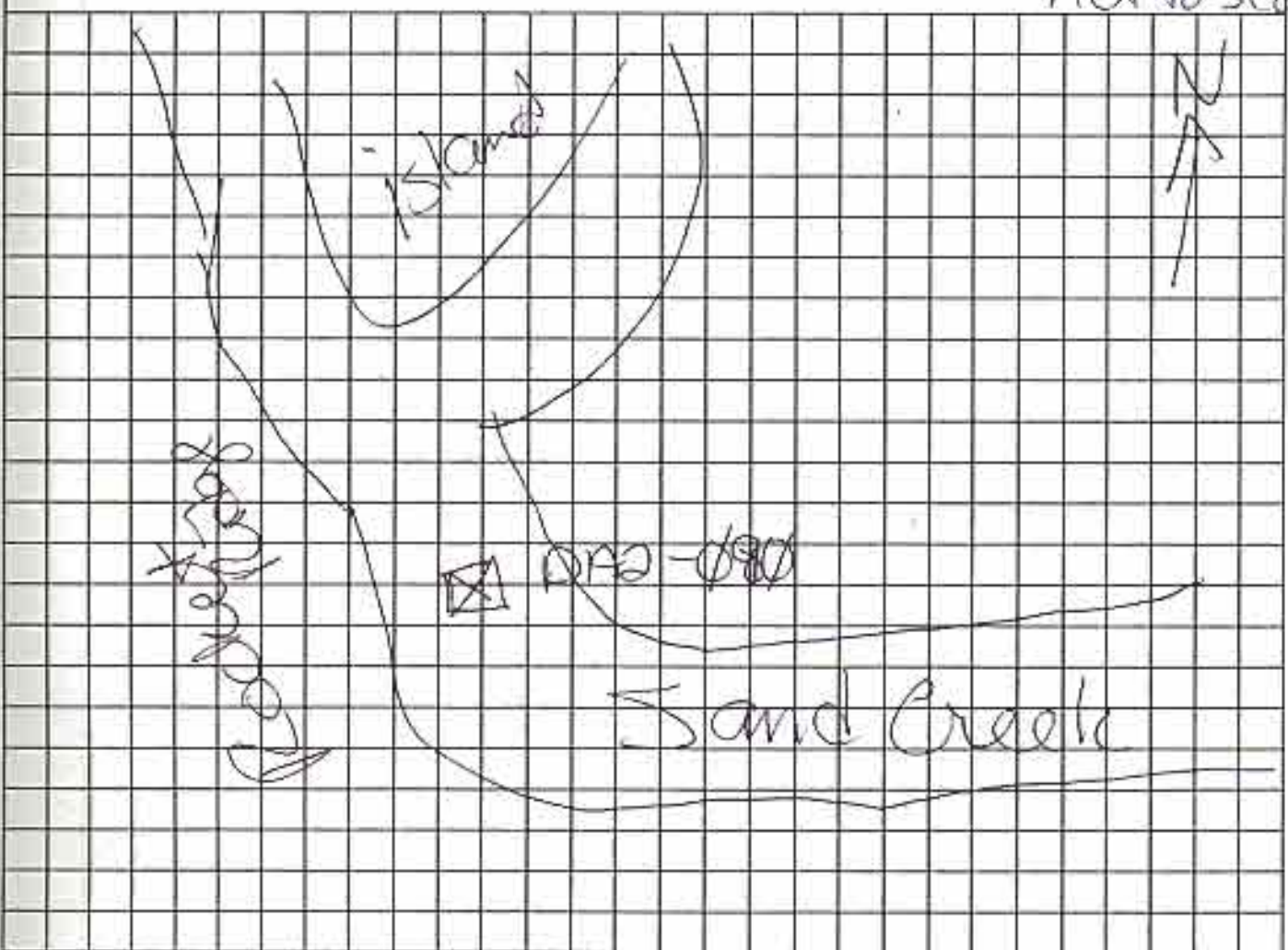




|   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>                              |   | HOLE NUMBER: <u>DA2-090</u>  |  |
| 1. COMPANY NAME: <u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                       |   | SHEET <u>1</u> OF <u>1</u>   |  |
| 3. PROJECT: <u>DA2-RVAAP</u>  |  |  | 4. LOCATION: <u>Demo 2 Grand Area</u>             |  |  |
| 5. NAME OF DRILLER: <u>n/a</u>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |  |  |
| 7. SIZES AND TYPES OF (DRILLING) AND SAMPLING EQUIPMENT: <u>33 5/8" SS bowl</u> |  | 8. HOLE LOCATION: <u>DA2-090</u>                         |   | 9. SURFACE ELEVATION: <u>n/a</u>   |  |
|   |  | 10. DATE STARTED: <u>8-1-02</u>                          |   | 11. DATE COMPLETED: <u>8-1-02</u>  |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>            |   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>21"</u> |   |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>3-6" depending - due to slate bottom</u>            |  | 18. GEOTECHNICAL SAMPLES                                 |   | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>                               |  |
|   |  | DISTURBED  |   | UNDISTURBED  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS: <u>See activity log</u>                      |  | VOC  |   | METALS   |  |
|   |  | OTHER (SPECIFY)  |   | OTHER (SPECIFY)  |  |
| 22. DISPOSITION OF HOLE: <u>n/a</u>   |  | BACOPILLED   |   | NONSTOPPING WELL   |  |
|   |  | OTHER (SPECIFY)  |   | 23. SIGNATURE OF INSPECTOR: <u>C. Canal</u>                              |  |

LOCATION SKETCH/COMMENTS

SCALE: not to scale



### HTRW DRILLING LOG

HOLE NUMBER **DA2-090**

PROJECT: **DA2 Revamp**

INSPECTOR **C. Canoll**

SHEET **1** OF **1**

| ELEV (A)       | DEPTH (B)<br><i>inches feet</i> | DESCRIPTION OF MATERIALS (C)                               | HEADSPACE SCREENING RESULTS | CITITECH SAMPLE OR CORE ID# | ANALYTICAL SAMPLE NO. (F) | REMARKS (G) |
|----------------|---------------------------------|--|-----------------------------|-----------------------------|---------------------------|-------------|
|                | 6"                              | <i>Standy silt H to med. brown on top of shale horizon</i> | <i>not available</i>        | <i>N/A</i>                  | <i>DA2-090-0760-SJ</i>    |             |
| <i>8-20-09</i> |                                 |  |                             |                             |                           |             |
| <i>CE</i>      |                                 |  |                             |                             |                           |             |



|   |  |  |   |  |  |
|---|--|--|---|--|--|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT <u>Louisville</u>   |   | HOLE NUMBER <u>DAD-091</u>                   |  |
| 1. COMPANY NAME: <u>Dec Pro Inc</u>                                 |  | 2. DRILL SUBCONTRACTOR: <u>n/A</u>                                       |   | SHEET <u>1 of 1</u>                          |  |
| 3. PROJECT: <u>DAD-BRAP</u>   |  |  | 4. LOCATION: <u>Demo 2 Grounds Area</u>           |  |  |
| 5. NAME OF DRILLER: <u>n/A</u>                                      |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/A</u> |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT               |  | 8. HOLE LOCATION: <u>DAD-091</u>   |   |  |  |
| <u>SS bowl</u><br><u>SS spoon</u><br><u>SS 4cc</u><br><u>3-2-82</u> |  | 9. SURFACE ELEVATION: <u>n/A</u>   |   |  |  |
|   |  | 10. DATE STARTED: <u>8-2-82</u>  |   | 11. DATE COMPLETED: <u>7-2-82</u>            |  |
| 12. OVERBURDEN THICKNESS: <u>n/A</u>                                |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/A</u>                            |   |  |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/A</u>                             |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/A</u> |   |  |  |
| 14. TOTAL DEPTH OF HOLE: <u>6"</u>                                  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):<br><u>3"</u> <u>n/A</u>    |   |  |  |
| 18. GEOTECHNICAL SAMPLES  |  | DISTURBED  |   | UNDISTURBED                                  |  |
| 19. TOTAL NUMBER OF CORE BOXES: <u>n/A</u>                          |  |  |   |  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                   |  | VOC  |   | METALS                                       |  |
| <u>See activity log</u>   |  |  |   |  |  |
| 21. TOTAL CORE RECOVERY: <u>n/A</u>                                 |  | OTHER (SPECIFY)  |   | OTHER (SPECIFY)                              |  |
| 22. DISPOSITION OF HOLE   |  | BACKFILLED   |   | MONITORING WELL                              |  |
| <u>n/A</u>  |  |  |   | 23. SIGNATURE OF INSPECTOR: <u>C. Canall</u> |  |

LOCATION SKETCH/COMMENTS

SCALE: not to scale



### HTRW DRILLING LOG

HOLE NUMBER **DA2-091**

PROJECT: **DA2-RVAKAP**

INSPECTOR **C. Canall**

SHEET **1** OF **1**

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GERTICE SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO (F) | REMARKS (G) |
|----------|-----------|--|-----------------------------|----------------------------|--------------------------|-------------|
|          | 0.11      | <p><del>with trace of</del><br/> silty sand/clay, well sorted<br/> lots of decay organics (roots/leaves, etc)<br/> med: to dk brown, trace to Sp.<br/> pebbles rounded to subrounded<br/> (2-10mm)</p> |                             | N/A                        | DA2sd-091-<br>09703-50   |             |
|          | 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        |  |                             |                            |                          |             |

8-22-03  
CC



|   |  |  |   |  |                                       |                                     |
|---|--|--|---|--|---------------------------------------|-------------------------------------|
| <b>HTRW DRILLING LOG</b>  |  | DISTRICT: <u>Louisville</u>  |   |  | HOLE NUMBER<br><u>DAD-090</u>         |                                     |
| 1. COMPANY NAME<br><u>Spec Pro Inc</u>  |  | 2. DRILL SUBCONTRACTOR<br><u>n/a</u>                                       |   |  | SHEET <u>1</u> of <u>1</u>            |                                     |
| 3. PROJECT<br><u>DAD-EURAP</u>  |  |  | 4. LOCATION<br><u>Demo 2 Grounds Area</u>           |  |                                       |                                     |
| 5. NAME OF DRILLER<br><u>n/a</u>  |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL<br><u>n/a</u> |  |                                       |                                     |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>35 bowl</u><br><u>35 span</u><br><u>35 3/4" auger bucket</u> |  | 8. HOLE LOCATION<br><u>DAD-090</u>   |   | 9. SURFACE ELEVATION<br><u>n/a</u>                         |                                       |                                     |
| 12. OVERBURDEN THICKNESS<br><u>n/a</u>  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>n/a</u>                            |   | 10. DATE STARTED<br><u>8-5-02</u>                          |                                       | 11. DATE COMPLETED<br><u>8-5-02</u> |
| 13. DEPTH DRILLED INTO ROCK<br><u>n/a</u>   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>n/a</u> |   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>n/a</u> |                                       |                                     |
| 14. TOTAL DEPTH OF HOLE<br><u>3 ft</u>  |  | 18. GEOTECHNICAL SAMPLES   |   | 19. TOTAL NUMBER OF CORE BOXES<br><u>n/a</u>               |                                       |                                     |
|   |  | DISTURBED  | UNDISTURBED   |  |                                       |                                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><u>See activity log for analysis</u>   |  | VOC  | METALS  | OTHER (SPECIFY)  | OTHER (SPECIFY)                       | OTHER (SPECIFY)                     |
| 22. DISPOSITION OF HOLE<br><u>8-5-02</u>  |  | BACKFILLED   | MONITORING WELL                                     | OTHER (SPECIFY)  | 21. TOTAL CORE RECOVERY<br><u>n/a</u> |                                     |
|   |  |  |   | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>           |                                       |                                     |

LOCATION SKETCH/COMMENTS

SCALE:

See page 111 for location of DAD-090 in the sketchbook #2



HTRW DRILLING LOG

HOLE NUMBER D92-092

PROJECT: D92-RVADP

INSPECTOR C. Canale

SHEET 1 OF 1

| ELEV. (A) | DEPTH (B)<br>feet | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | CHECKED SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G) |
|-----------|-------------------|---|-----------------------------|----------------------------|---------------------------|-------------|
|           | 0.5               | lt brown dry silt trace of clay, 1/2% rock angular to subangular (<5mm) trace orange mottling | 4.0 / ppm                   | n/A                        | D92-092-0716-50           | Trace roots |
|           | 1.5               | dry to damp lt brown clay w/ trace silt, orange and gray mottling, couple of rocks subangular | 5.84 ppm<br>6.01 ppm soil   | n/A                        | D92-092-0716-50           |             |
|           | 10.0              |   |                             |                            |                           |             |
|           | 15.0              |   |                             |                            |                           |             |
|           | 20.0              |   |                             |                            |                           |             |
|           | 25.0              |   |                             |                            |                           |             |
|           | 30.0              |   |                             |                            |                           |             |
|           | 35.0              |   |                             |                            |                           |             |
|           | 40.0              |   |                             |                            |                           |             |
|           | 45.0              |   |                             |                            |                           |             |
|           | 50.0              |   |                             |                            |                           |             |
|           | 55.0              |   |                             |                            |                           |             |
|           | 60.0              |   |                             |                            |                           |             |
|           | 65.0              |   |                             |                            |                           |             |
|           | 70.0              |   |                             |                            |                           |             |
|           | 75.0              |   |                             |                            |                           |             |
|           | 80.0              |   |                             |                            |                           |             |
|           | 85.0              |   |                             |                            |                           |             |
|           | 90.0              |   |                             |                            |                           |             |
|           | 95.0              |   |                             |                            |                           |             |
|           | 100.0             |   |                             |                            |                           |             |

8-22-02  
cc

|  |  |   |  |  |  |
|--|--|---|--|--|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: Louisville  |  | HOLE NUMBER: D02-093                   |  |
| 1. COMPANY NAME: Spec Pro Inc  |  | 7. DRILL SUBCONTRACTOR: n/A                                       |  | SHEET 1 of 1                           |  |
| 3. PROJECT: D02-KUAMP  |  |   | 4. LOCATION: Demo 2 Ground Area            |  |  |
| 5. NAME OF DRILLER: n/A  |  |   | 6. MANUFACTURERS DESIGNATION OF DRILL: n/A |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:<br>55 bowl<br>35 20mm<br>35 3/4" Auger bucket |  | 8. HOLE LOCATION: D02-093   |  | 9. SURFACE ELEVATION: n/A              |  |
| 12. OVERBURDEN THICKNESS: n/A  |  | 15. DEPTH GROUNDWATER ENCOUNTERED: n/A                            |  | 10. DATE STARTED: 8-5-02               |  |
| 13. DEPTH DRILLED INTO ROCK: n/A   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/A |  | 11. DATE COMPLETED: 8-5-02             |  |
| 14. TOTAL DEPTH OF HOLE: 3ft   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/A                 |  |  |  |
| 18. GEOTECHNICAL SAMPLES   |  | DISTURBED   |  | UNDISTURBED                            |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS  |  | VOC   |  | METALS                                 |  |
| 21. DISPOSITION OF HOLE: see activity log  |  | BACKFILLED: 8-5-02  |  | MONITORING WELL                        |  |
|  |  |   |  | 19. TOTAL NUMBER OF CORE BOXES: n/A    |  |
|  |  |   |  | 21. TOTAL CORE RECOVERY: n/A           |  |
|  |  |   |  | 23. SIGNATURE OF INSPECTOR: C. Carroll |  |

LOCATION SKETCH/COMMENTS SCALE:

See Page 111 in  
The Soilbook #2  
for D02-093

HTRW DRILLING LOG

HOLE NUMBER DAD 093

PROJECT: DAD-RURAP

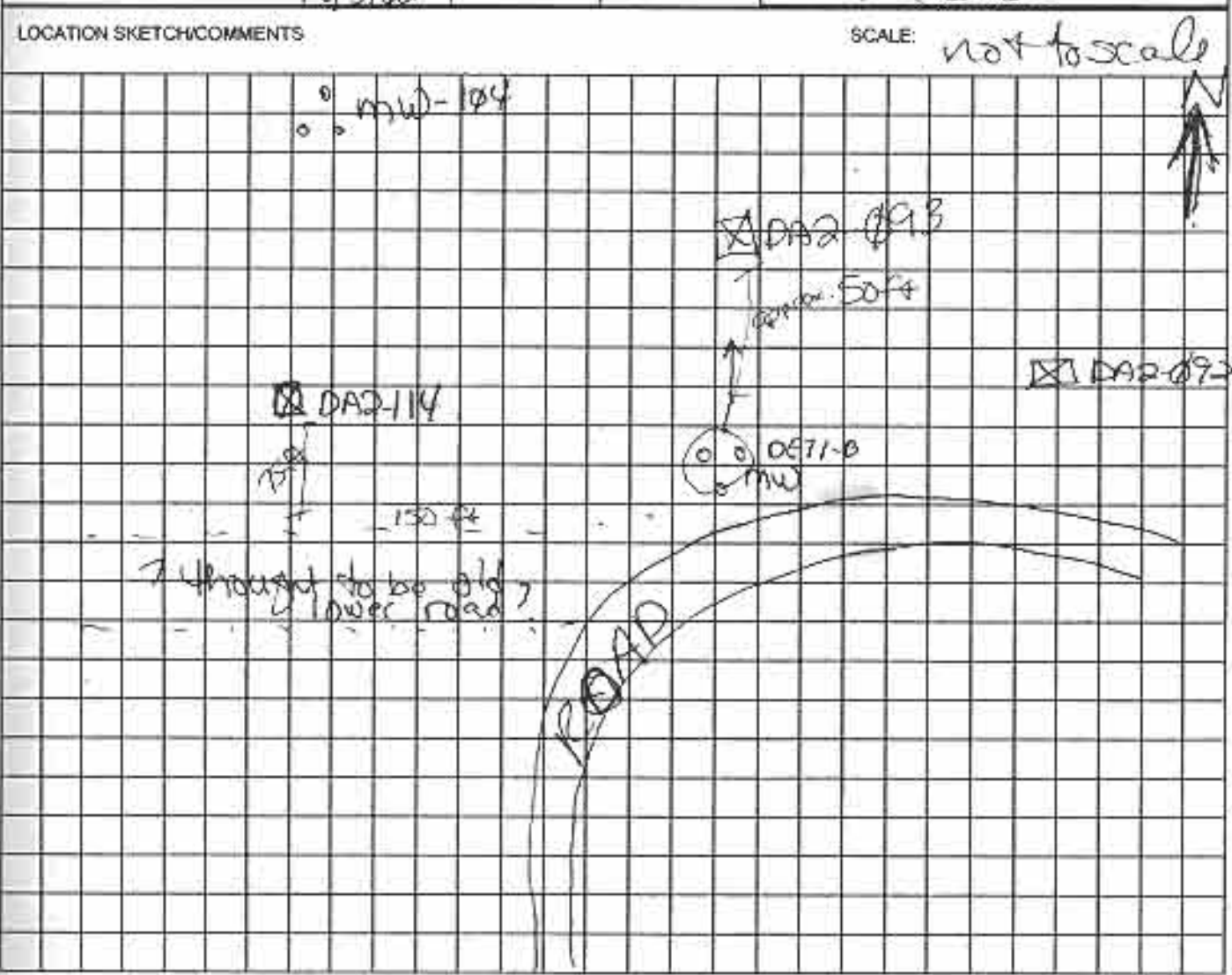
INSPECTOR O. Canall

SHEET (OF 1

| ELEV. (A)     | DEPTH (B)<br>Feet | DESCRIPTION OF MATERIALS (C)   | HEADSPACE SCREENING RESULTS | GINTOCH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G) |
|---------------|-------------------|--|-----------------------------|----------------------------|---------------------------|-------------|
|               | 8.4               | My. H. brown clay silt w/ trace sand, roots, fainter plasticity, well sorted   | 5.76<br>APM                 | N/A                        | DAD 25 093<br>0767-50     | worm 0-720  |
|               |                   | changed into 1 meter brown w/ trace of sand, clay, trace sand silt   | 6.36<br>SPM                 |                            |                           |             |
|               | 10.6              | Same as above but trace of rock  | 6.15<br>SPM                 | N/A                        | DAD 25 093<br>0768-50     |             |
|               | 13.0              | light gray brown silty sandy clay, w/ many mottled med. plasticity, well sorted trace of rock at very bottom of hole | 5.95<br>SPM                 |                            |                           |             |
| 8-22-82<br>cc |                   |  |                             |                            |                           |             |



|  |  |  |   |   |  |
|--|--|--|---|---|--|
| <b>HTRW DRILLING LOG</b>   |  | DISTRICT: <u>Louisville</u>  |   | HOLE NUMBER: <u>DA2-114</u>                                       |  |
| 1. COMPANY NAME: <u>Spectro, Inc</u>   |  | 2. DRILL SUBCONTRACTOR: <u>n/a</u>                                       |   | DATE: <u>8-5-02</u>   |  |
| 3. PROJECT: <u>DA2-RUAPP</u>   |  |  | 4. LOCATION: <u>Demo 2 grounds Area</u>           |   |  |
| 5. NAME OF DRILLER: <u>n/a</u>   |  |  | 6. MANUFACTURERS DESIGNATION OF DRILL: <u>n/a</u> |   |  |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>50 bowl, 35 3/8" auger bucket</u> |  | 8. HOLE LOCATION: <u>DA2-114</u>   |   | 9. SURFACE ELEVATION: <u>n/a</u>                                  |  |
| 12. OVERBURDEN THICKNESS: <u>n/a</u>   |  | 15. DEPTH GROUNDWATER ENCOUNTERED: <u>n/a</u>                            |   | 10. DATE STARTED: <u>8-5-02</u> 11. DATE COMPLETED: <u>8-5-02</u> |  |
| 13. DEPTH DRILLED INTO ROCK: <u>n/a</u>  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>n/a</u> |   | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>n/a</u>          |  |
| 14. TOTAL DEPTH OF HOLE: <u>3-A</u>  |  | 18. GEOTECHNICAL SAMPLES   |   | 19. TOTAL NUMBER OF CORE BOXES: <u>n/a</u>                        |  |
|  |  | DISTURBED  |   | UNDISTURBED   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSES: <u>see activity log for analysis</u>                    |  | VOC  |   | METALS  |  |
| 22. DISPOSITION OF HOLE: <u>BACKFILLED 8/5/02</u>  |  | MONITORING WELL  |   | OTHER (SPECIFY)   |  |
|  |  |  |   | 23. SIGNATURE OF INSPECTOR: <u>M. Small</u>                       |  |
| 21. TOTAL CORE RECOVERY: <u>n/a</u>  |  |  |   |   |  |



# HTRW DRILLING LOG

HOLE NUMBER 082-114  
SHEET 1 OF 1

PROJECT 02L-VAOP

INSPECTOR C. Canal

| ELEV (A) | DEPTH (B) | DESCRIPTION OF MATERIALS (C)  | HEADSPACE SCREENING RESULTS | GEOTECH SAMPLE OR CORE BOX | ANALYTICAL SAMPLE NO. (F) | REMARKS (G) |
|----------|-----------|---|-----------------------------|----------------------------|---------------------------|-------------|
|          | 0.75      | 5% fine sand - clay, trace to 5% pebbles subangular, (1-3mm) med, low plasticity, orange brown  | 0.47 gr<br>1.04 gr / soil   | n/A                        | DA2-114<br>0871-50        |             |
|          | 1.50      | same as above   | 1.50 ppm<br>2.01 ppm / soil | n/A                        | DA250-114<br>0871-50      |             |
|          | 2.00      | Clay silt, med plasticity, moist trace sand, pebbles (S. B) orange brown w/ gray mottling   |                             | n/A                        |                           |             |
|          | 7.25      | <div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">                     7.25 to 10.00<br/>                     CE                 </div> |                             |                            |                           |             |