

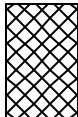
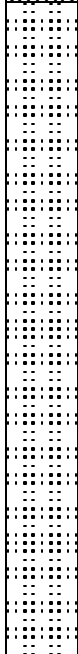
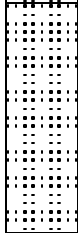
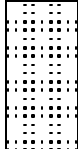
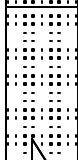


# EXPLORATION LOG SA137-A3

**PROJECT:** TRONOX PHASE B  
**EXPLORATION LOCATION:** TRONOX AREA 3  
**EXPLORATION SIZE (dia.):** 3" CORE BARREL  
**ELEVATION:** EXISTING GROUND SURFACE

**PROJECT NO.:** 20092518V1  
**EXPLORATION DATE:** 10-9-2009  
**EQUIPMENT:** SDC550-24 SONIC CORE RIG  
**LOGGED BY:** THOMPSON/GAREY

**INITIAL DEPTH TO WATER:** NOT ENCOUNTERED  
**FINAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** N/A  
**DATE MEASURED:** N/A

| ELEVATION/<br>DEPTH | SOIL & SAMPLE<br>SYMBOLS  | USCS | DESCRIPTION  | PI | LL | MOISTURE<br>CONTENT (%) | DRY DENSITY<br>(pcf) | Pocket<br>Penetrometer<br>(tsf) | WELL<br>CONSTRUCTION |
|---------------------|---|------|--|----|----|-------------------------|----------------------|---------------------------------|----------------------|
| 0                   |    | FILL | FILL: SAND, SW, dark reddish brown (2.5YR 3/4), 100% fine to coarse sand, trace gravel, trace manganese tailings, loose, dry, weak cementation, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV |    |    |                         |                      |                                 |                      |
| 2.5                 |   | SW   | SAND, reddish brown (5YR 4/4), 95% fine to coarse sub-angular to sub-rounded sand, 5% fine to medium gravel, loose to dense, dry, no plasticity, interbedded caliche layers, strong HCl reaction     |    |    |                         |                      |                                 |                      |
| 5                   |  | SW   | ...gravel content to trace amounts   |    |    |                         |                      |                                 |                      |
| 7.5                 |  | SW   | SAND, reddish brown (5YR 4/4), 100% fine to coarse sand, trace fine gravel, dense, dry, no plasticity, interbedded caliche, strong HCl reaction  |    |    |                         |                      |                                 |                      |
| 10                  |  | SW   | Collect SA137-15B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.1 ppmV  |    |    |                         |                      |                                 |                      |
| 12.5                |  |      |  |    |    |                         |                      |                                 |                      |
| 15                  |  |      |  |    |    |                         |                      |                                 |                      |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

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**EXPLORATION SIZE (dia.):** 3" CORE BARREL  
**ELEVATION:** EXISTING GROUND SURFACE

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**EXPLORATION DATE:** 10-9-2009  
**EQUIPMENT:** SDC550-24 SONIC CORE RIG  
**LOGGED BY:** THOMPSON/GAREY

**INITIAL DEPTH TO WATER:** NOT ENCOUNTERED  
**FINAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** N/A  
**DATE MEASURED:** N/A

| ELEVATION/<br>DEPTH | SOIL & SAMPLE<br>SYMBOLS | USCS | DESCRIPTION  | PI | LL | MOISTURE<br>CONTENT (%) | DRY DENSITY<br>(pcf) | Pocket<br>Penetrometer<br>(tsf) | WELL<br>CONSTRUCTION |
|---------------------|--------------------------|------|--|----|----|-------------------------|----------------------|---------------------------------|----------------------|
|                     |                          |      |  |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | ...no gravel present   |    |    |                         |                      |                                 |                      |
|                     |                          | SP   | Collect SA137-31B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.1 ppmV<br>SAND, yellowish red (5YR 6/8), 100% very fine to fine sand, medium dense to very dense, damp, no plasticity, weak calcite and gypsum cement, weak HCl reaction<br><b>END OF BORING AT 32.5 FEET</b> |    |    |                         |                      |                                 |                      |

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