

APPENDIX A

Ground Penetrating Radar (GPR) Data for soils

June 2007 Sampling

June 24, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 1-SB-01

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-01 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

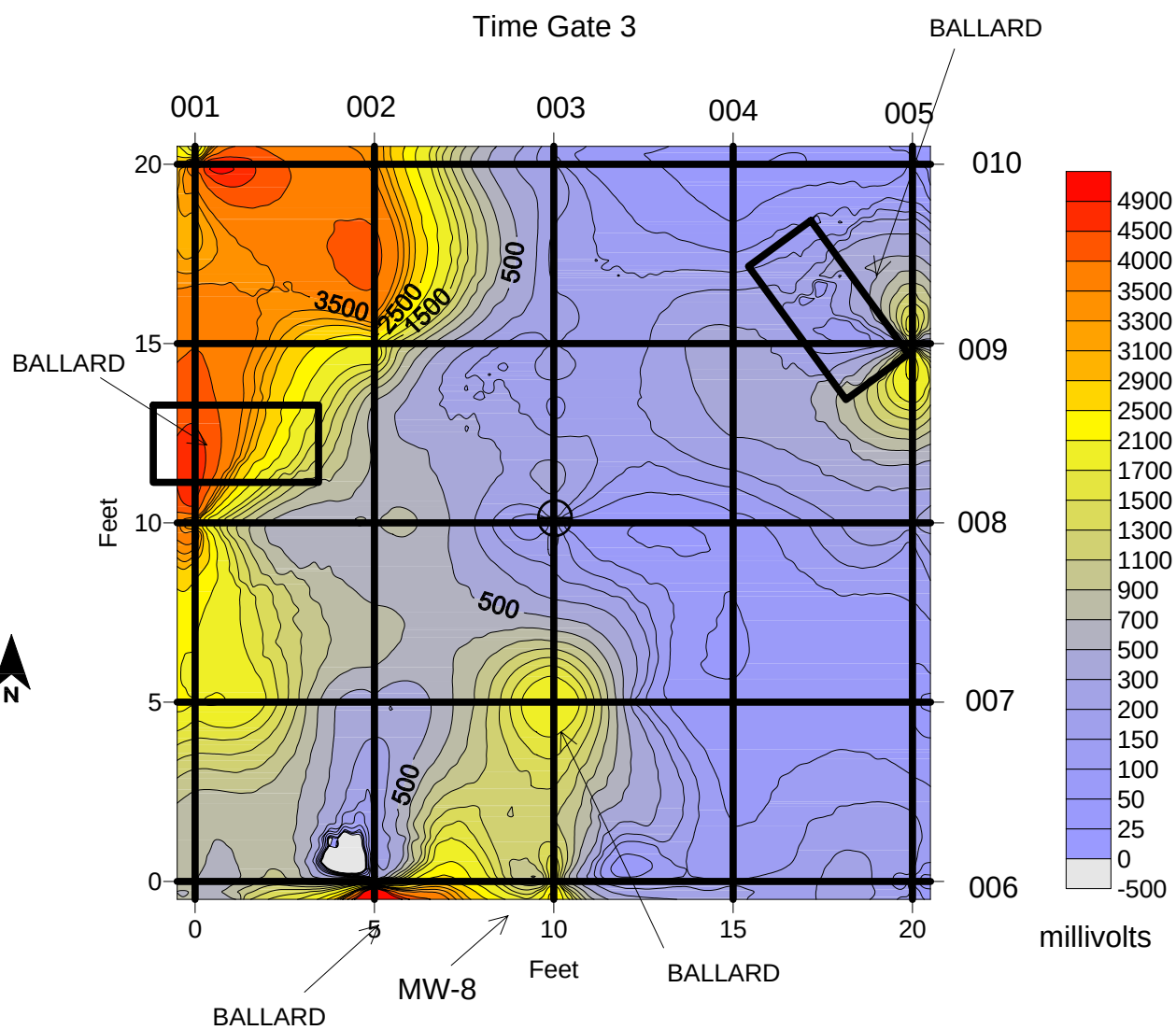
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference such as the ballards and monitoring well. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

The third figure attached to this summary presents two of the GPR files collected at the boring location. The files presented on the figure represent the profiles collected over the boring location itself. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



KEY

52500 magnetic contour line

003 GPR line with file number at start of profile

Soil Boring 1-SB-01
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

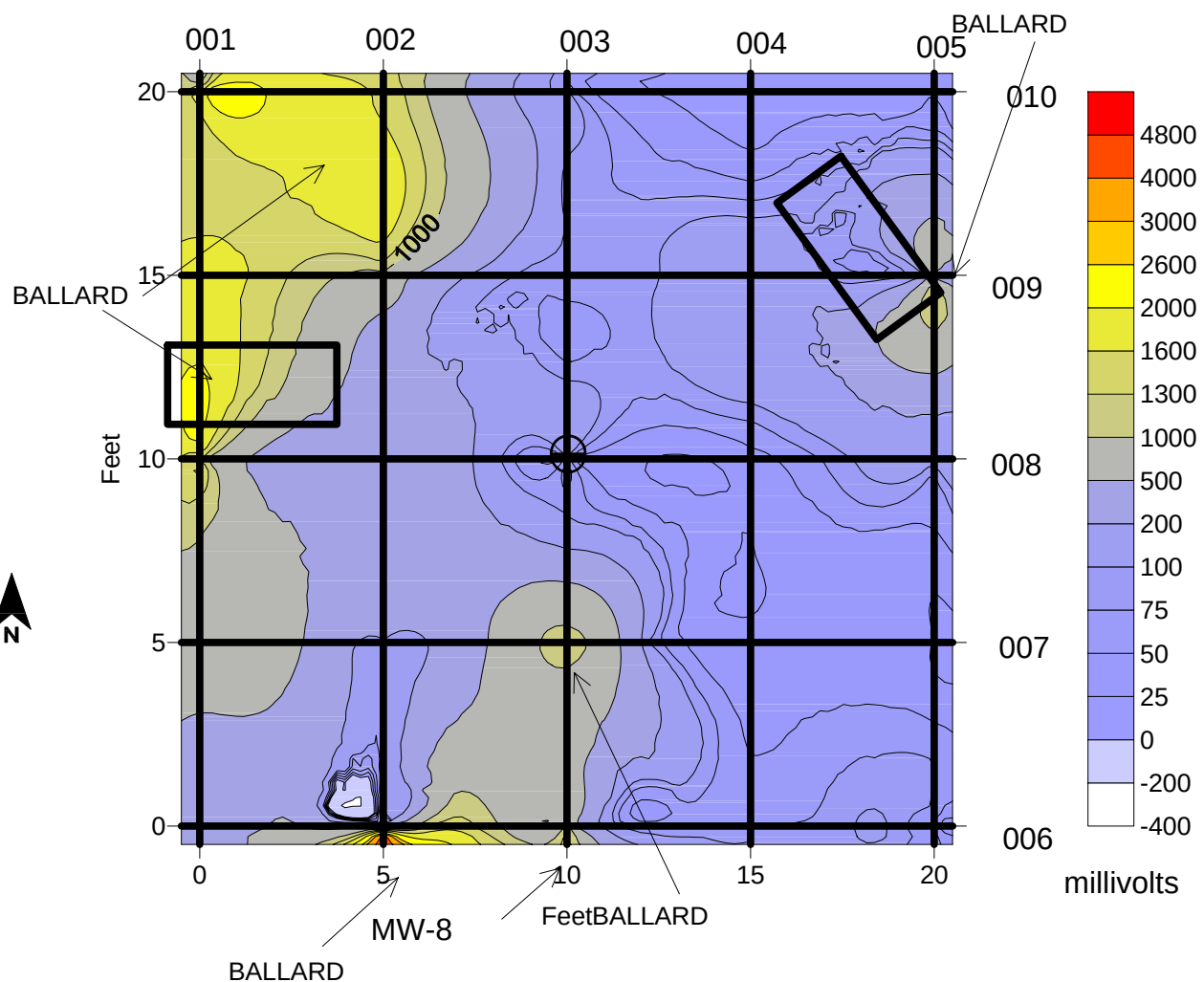
ARM Geophysics

SOIL BORING 1-SB-01

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

52500 magnetic contour line

003 GPR line with file number at start of profile

Soil Boring 1-SB-01
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

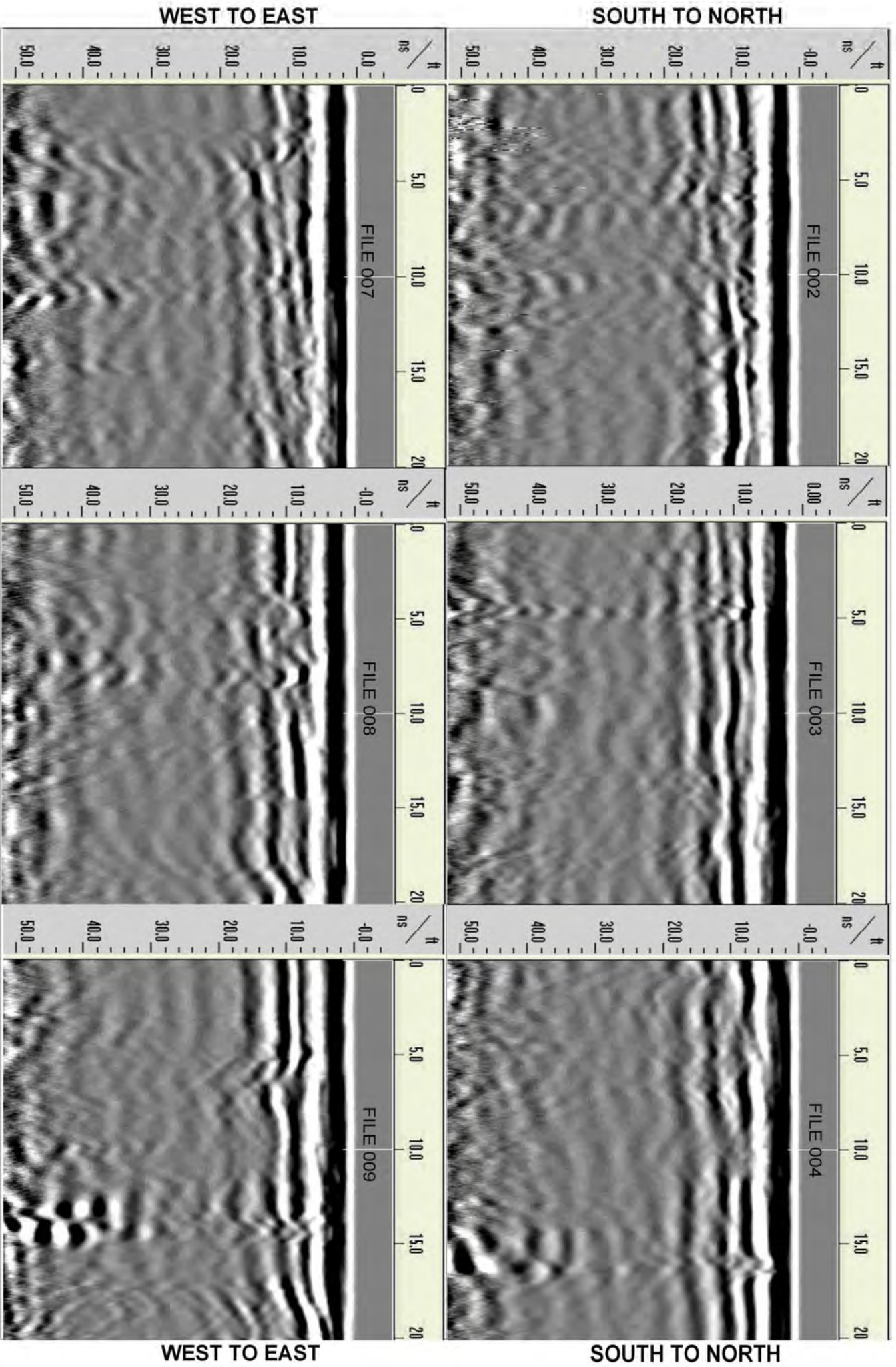
ARM Geophysics

SOIL BORING 1-SB-01

SCALE: 1" = 5'

June 21, 2007

Soil Boring 1-SB-01



June 24, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 1-SB-02

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-02 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

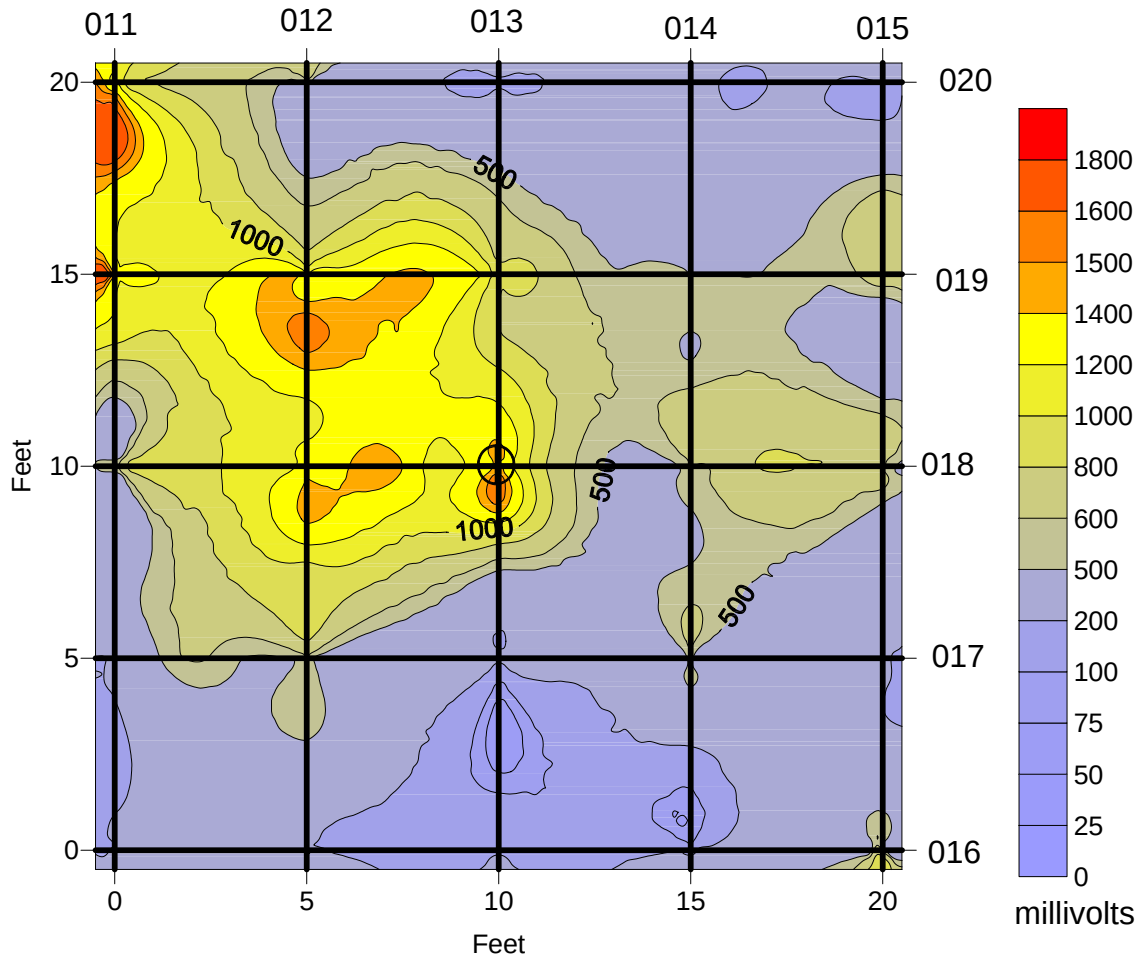
The third figure attached to this summary presents two of the GPR files collected at the boring location. The files presented on the figure represent the profiles collected over the boring location itself. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities. There are some small anomalies present on the GPR files that appear to represent random items in the subsurface.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

013 GPR line with file number at start of profile

Soil Boring 1-SB-02
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

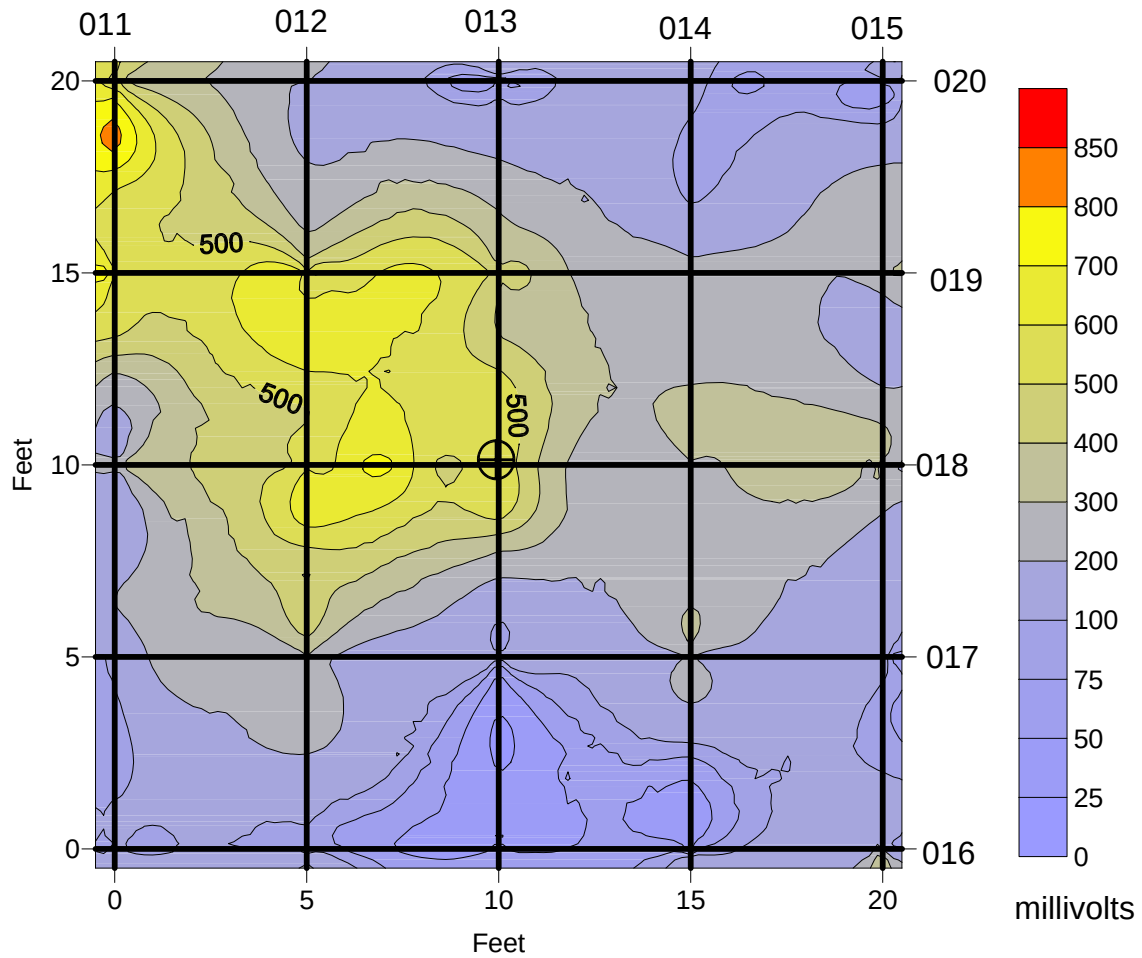
ARM Geophysics

SOIL BORING 1-SB-02

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

52500 magnetic contour line

013 GPR line with file number at start of profile

Soil Boring 1-SB-02
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

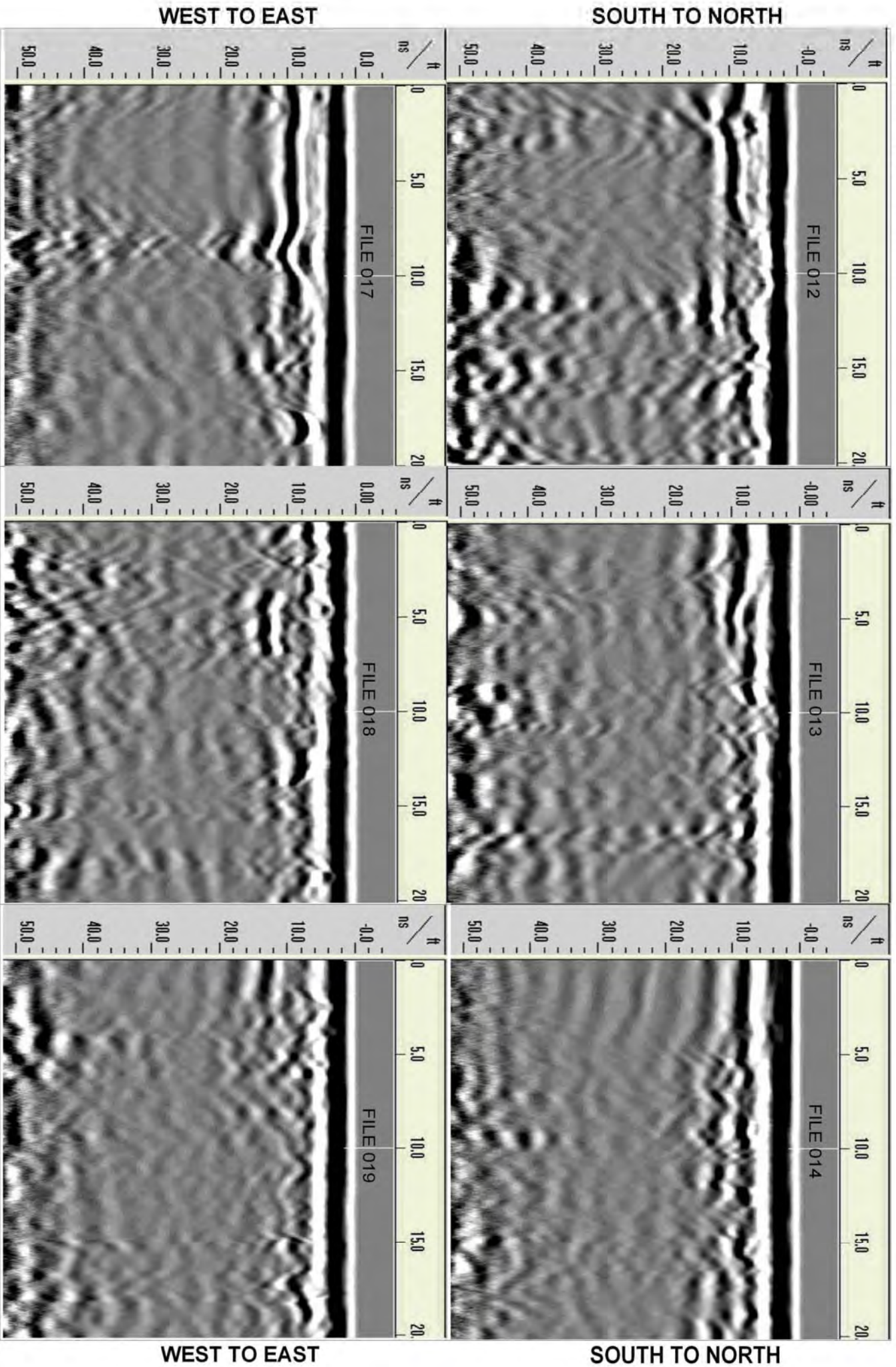
ARM Geophysics

SOIL BORING 1-SB-02

SCALE: 1" = 5'

June 21, 2007

Soil Boring 1-SB-02



June 24, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 1-SB-03

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-03 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

The third figure attached to this summary presents two of the GPR files collected at the boring location. The files presented on the figure represent the profiles collected over the boring location itself. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities. There are some small anomalies present on the GPR files that appear to represent random items in the subsurface (File 023, inline distance of approximately four feet).

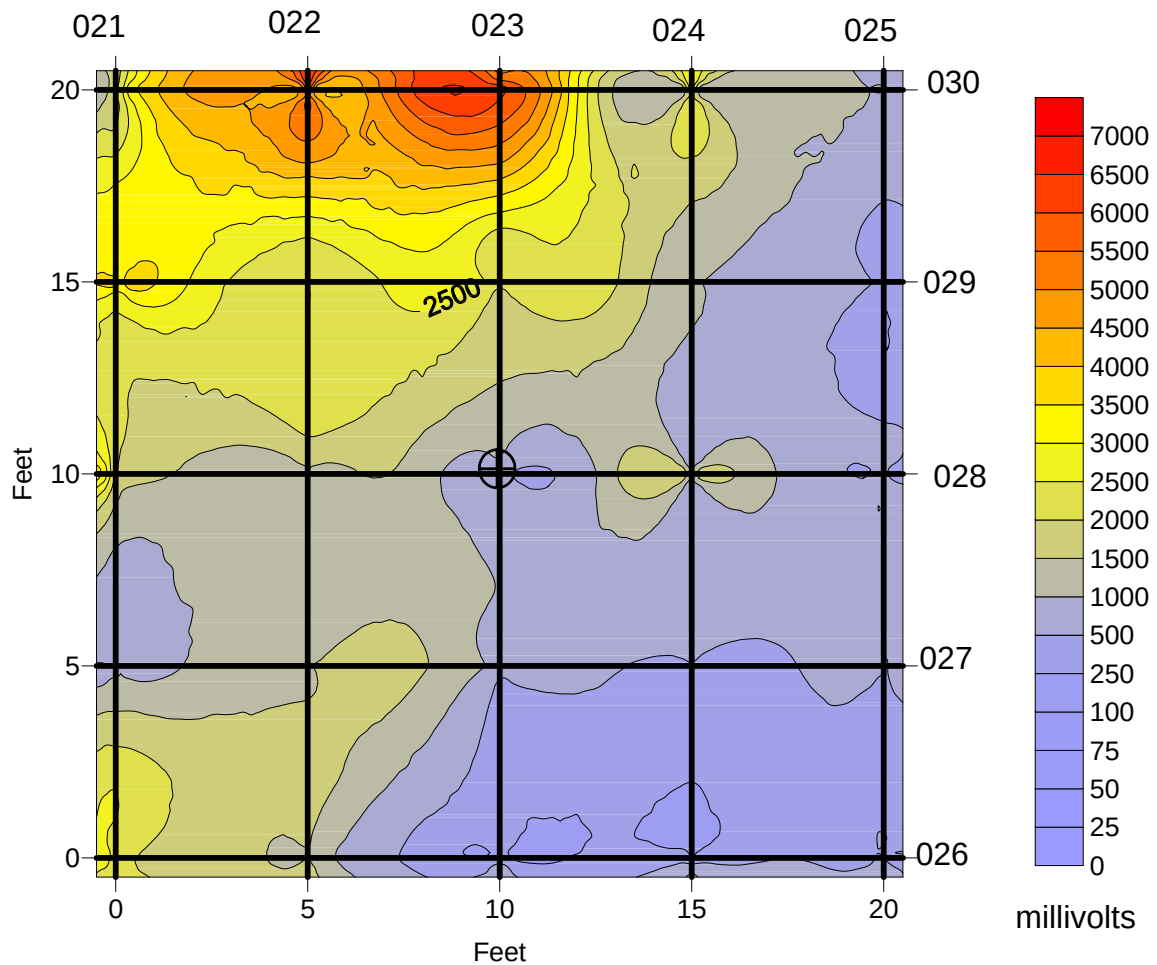
After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

MW-11
Ballards

Time Gate 3



KEY

52500

utility

023 GPR line with file number at start of profile

Soil Boring 1-SB-03
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

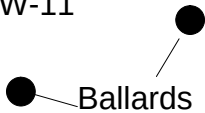
ARM Geophysics

SOIL BORING 1-SB-03

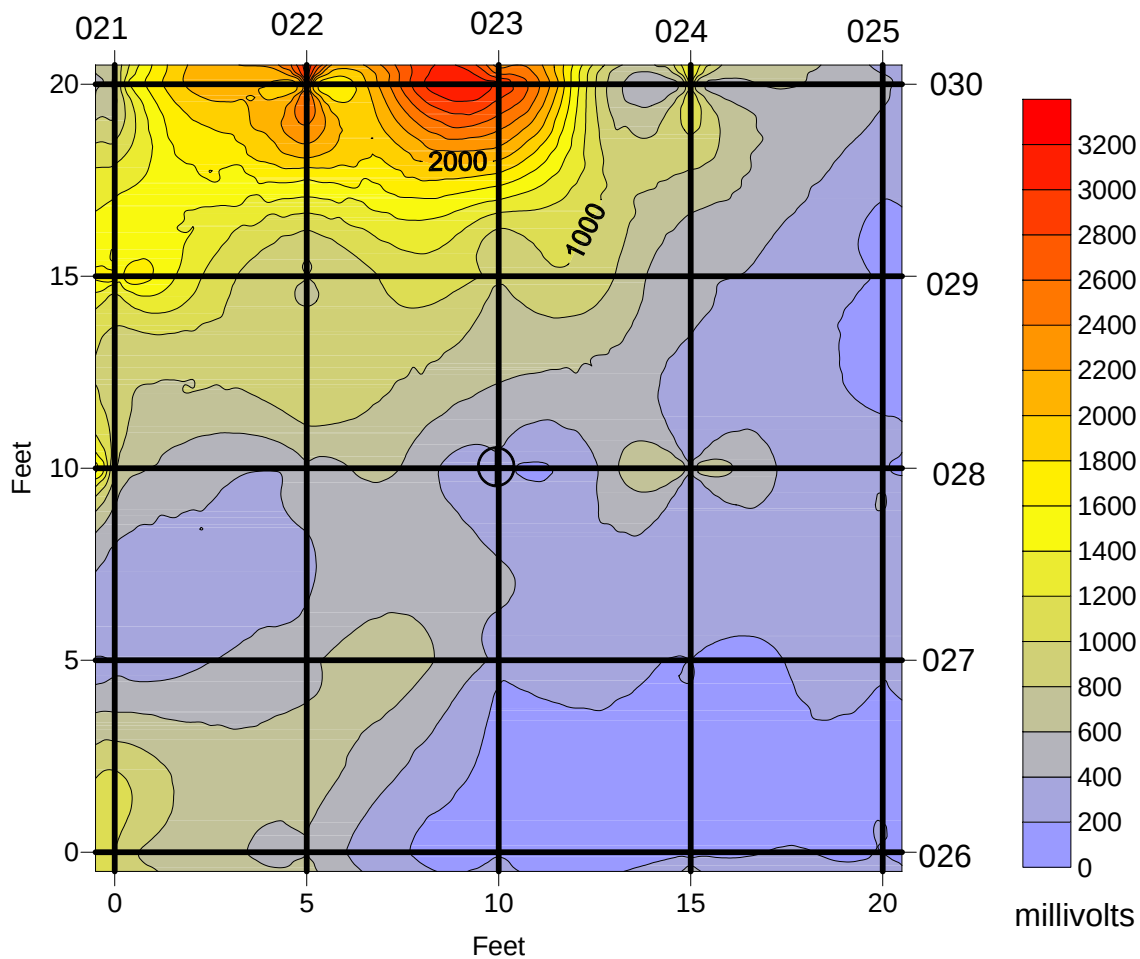
SCALE: 1" = 5'

June 21, 2007

MW-11



Time Gate 4



KEY

- 52500 magnetic contour line
- utility
- 023 GPR line with file number at start of profile

Soil Boring #1
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

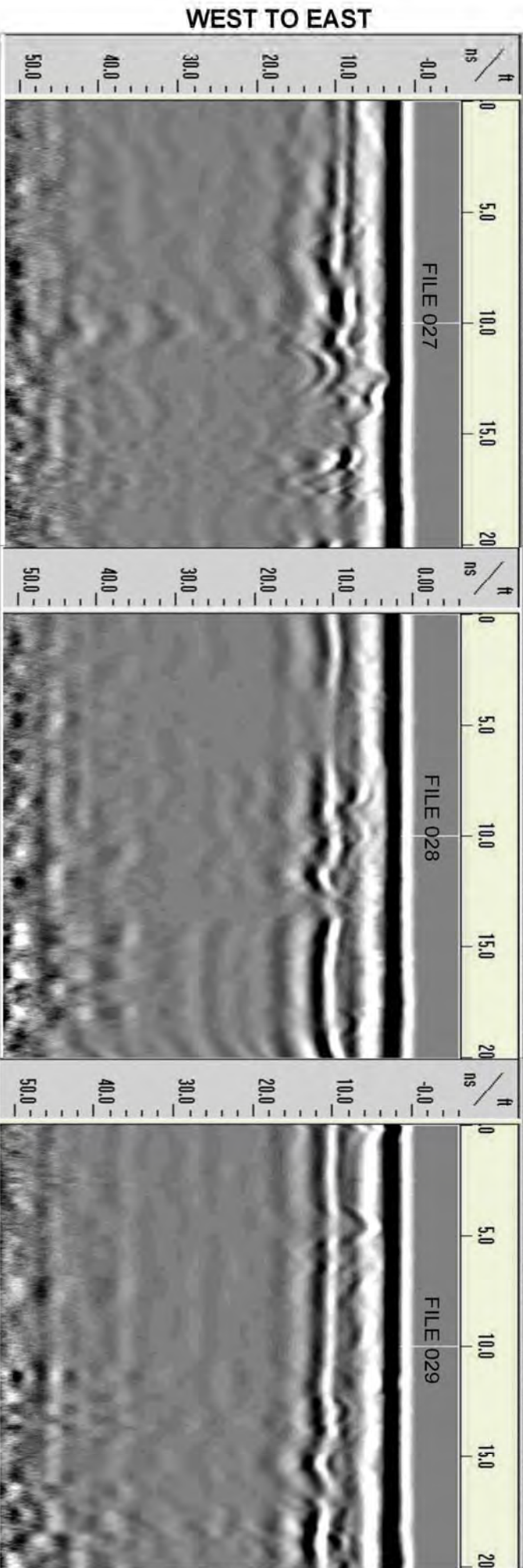
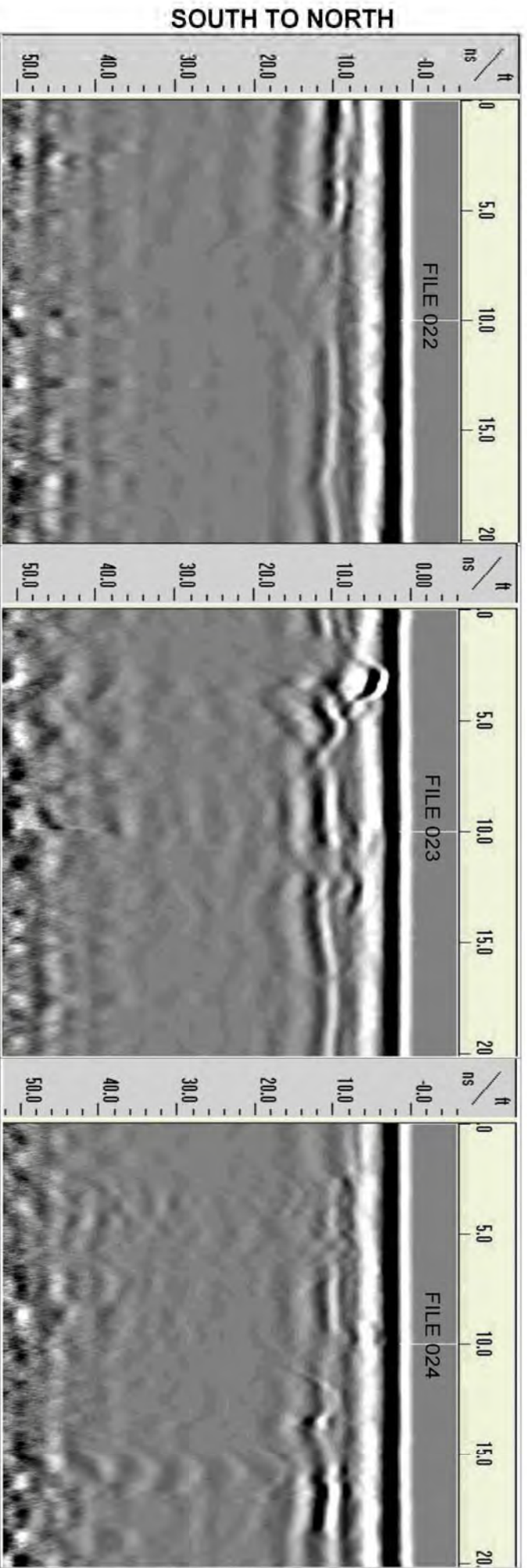
ARM Geophysics

SOIL BORING 1-SB-03

SCALE: 1" = 5'

June 21, 2007

Soil Boring 1-SB-03



June 24, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 1-SB-04

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-04 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

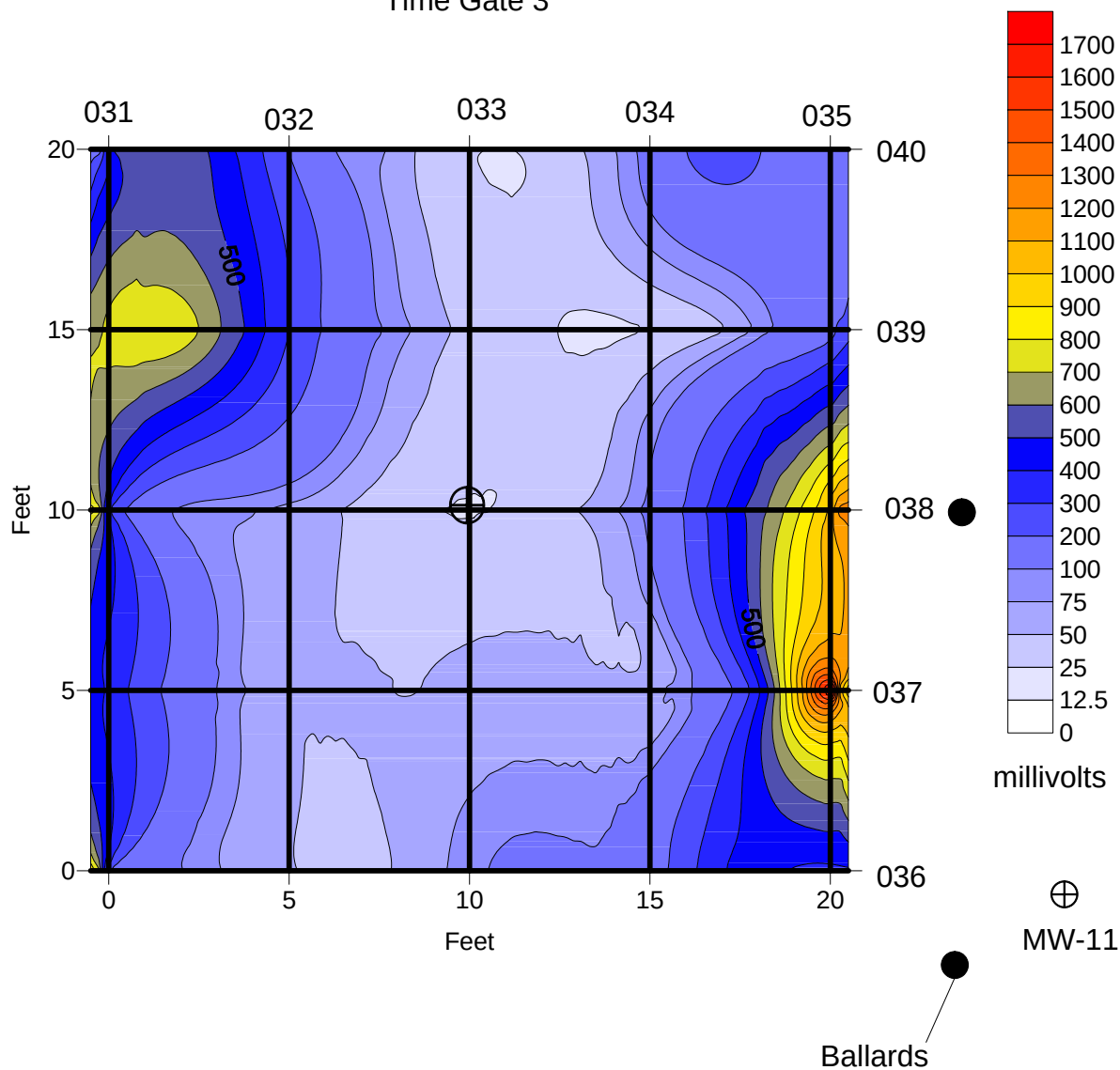
The third figure attached to this summary presents two of the GPR files collected at the boring location. The files presented on the figure represent the profiles collected over the boring location itself. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

033 GPR line with file number at start of profile

Soil Boring 1-SB-04
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

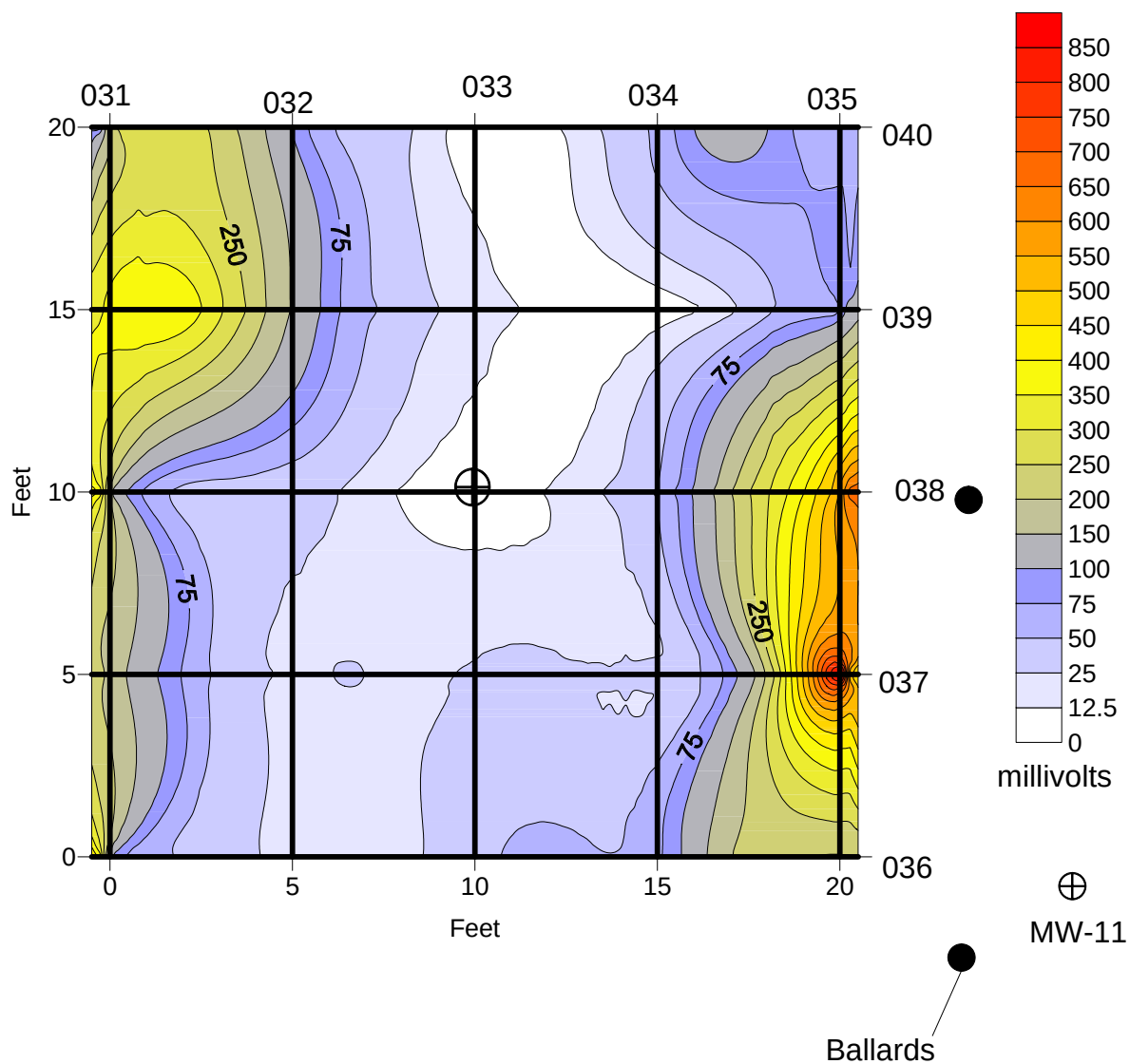
ARM Geophysics

SOIL BORING 1-SB-04

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

52500 magnetic contour line

033 GPR line with file number at start of profile

Soil Boring 1-SB-04
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

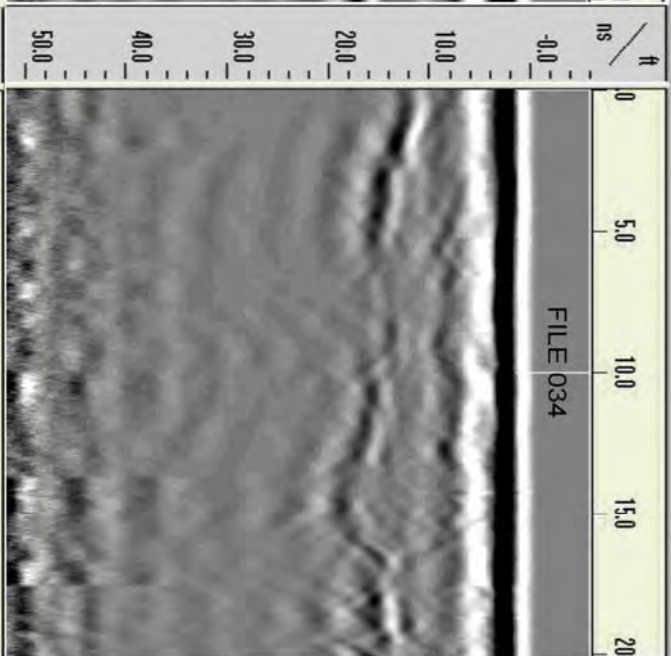
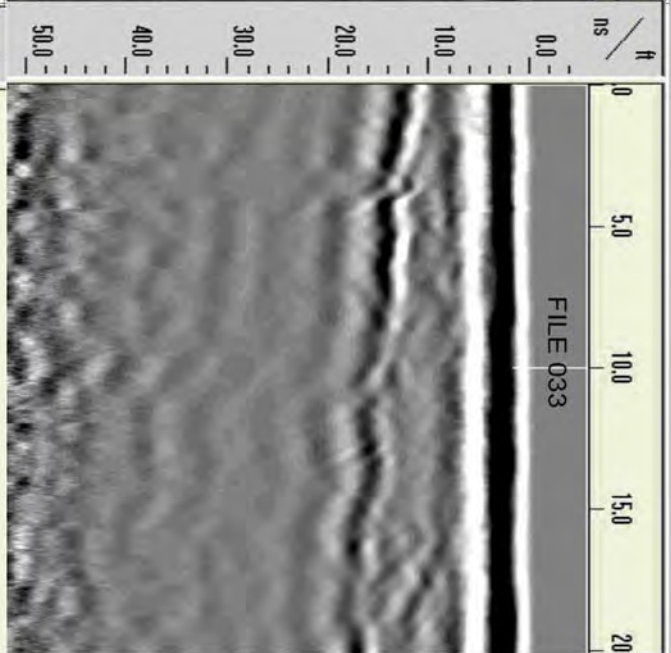
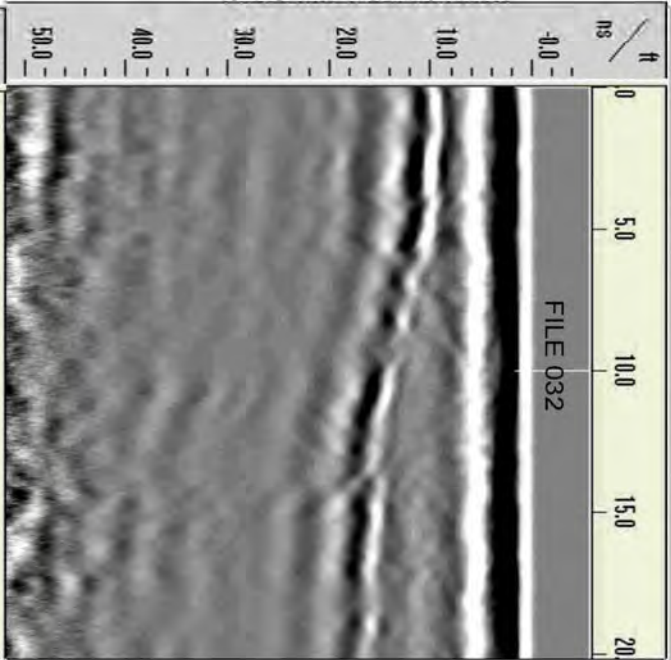
SOIL BORING 1-SB-04

SCALE: 1" = 5'

June 21, 2007

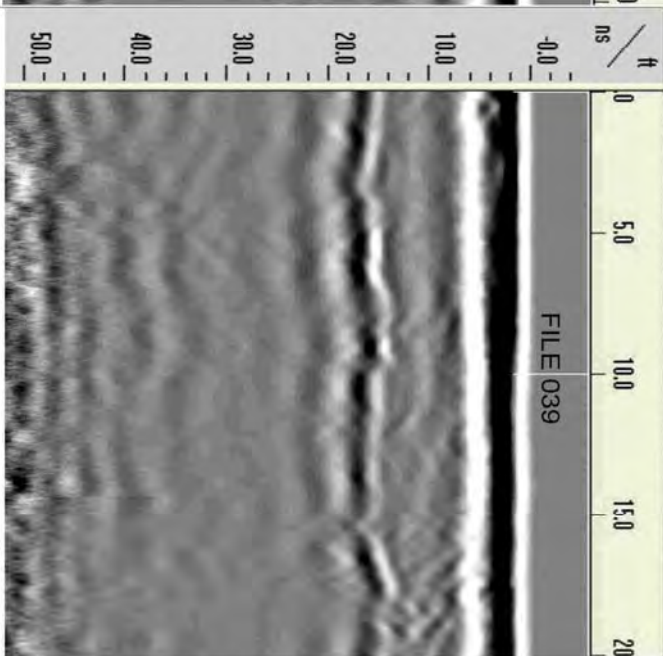
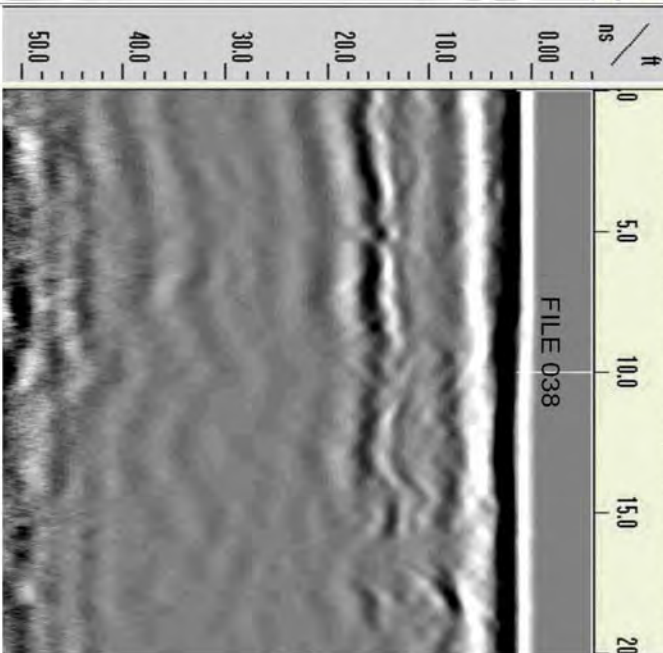
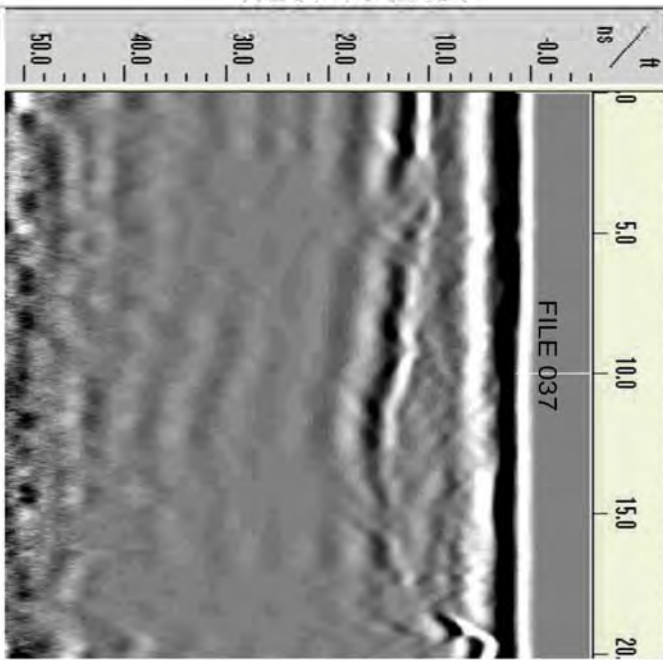
Soil Boring 1-SB-04

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 24, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 1-SB-05

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-05 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

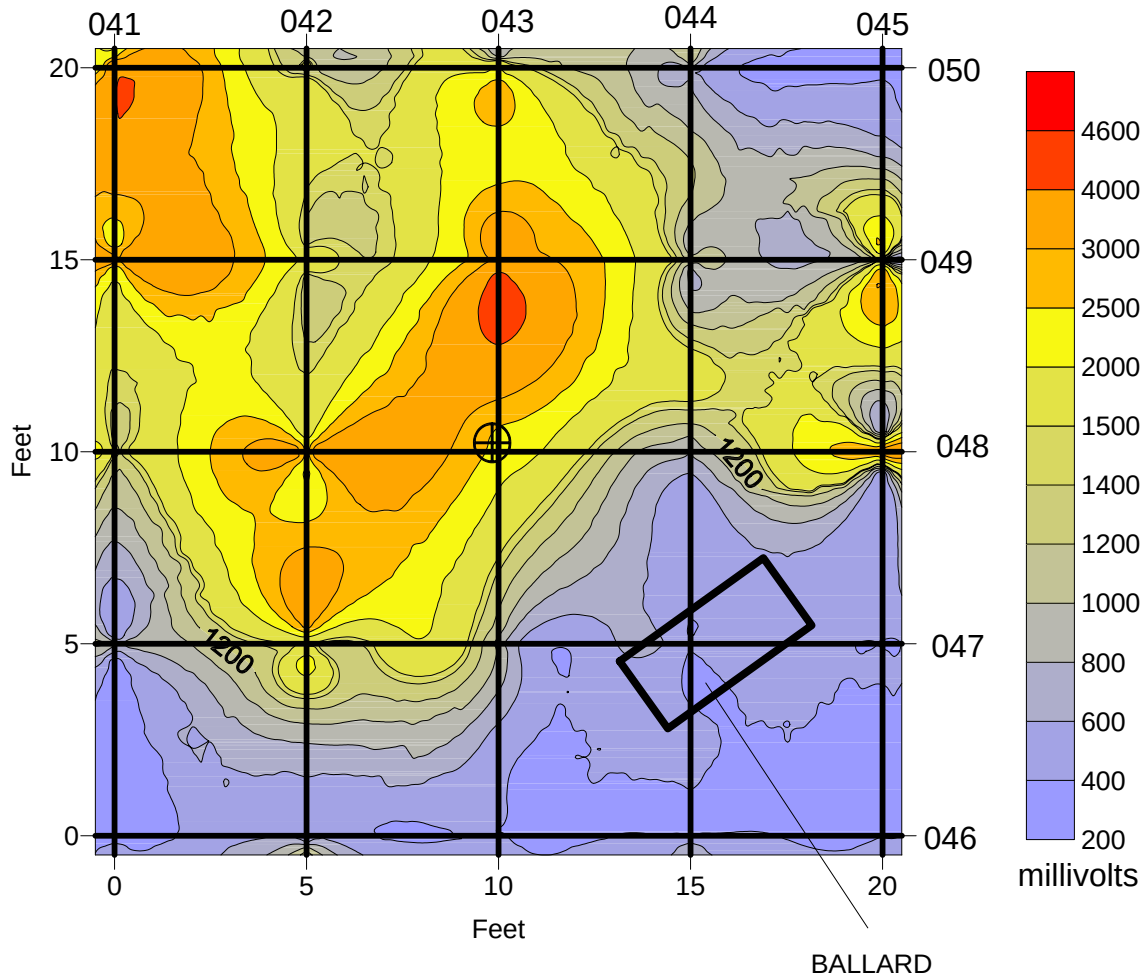
The third figure attached to this summary presents two of the GPR files collected at the boring location. The files presented on the figure represent the profiles collected over the boring location itself. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-05
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

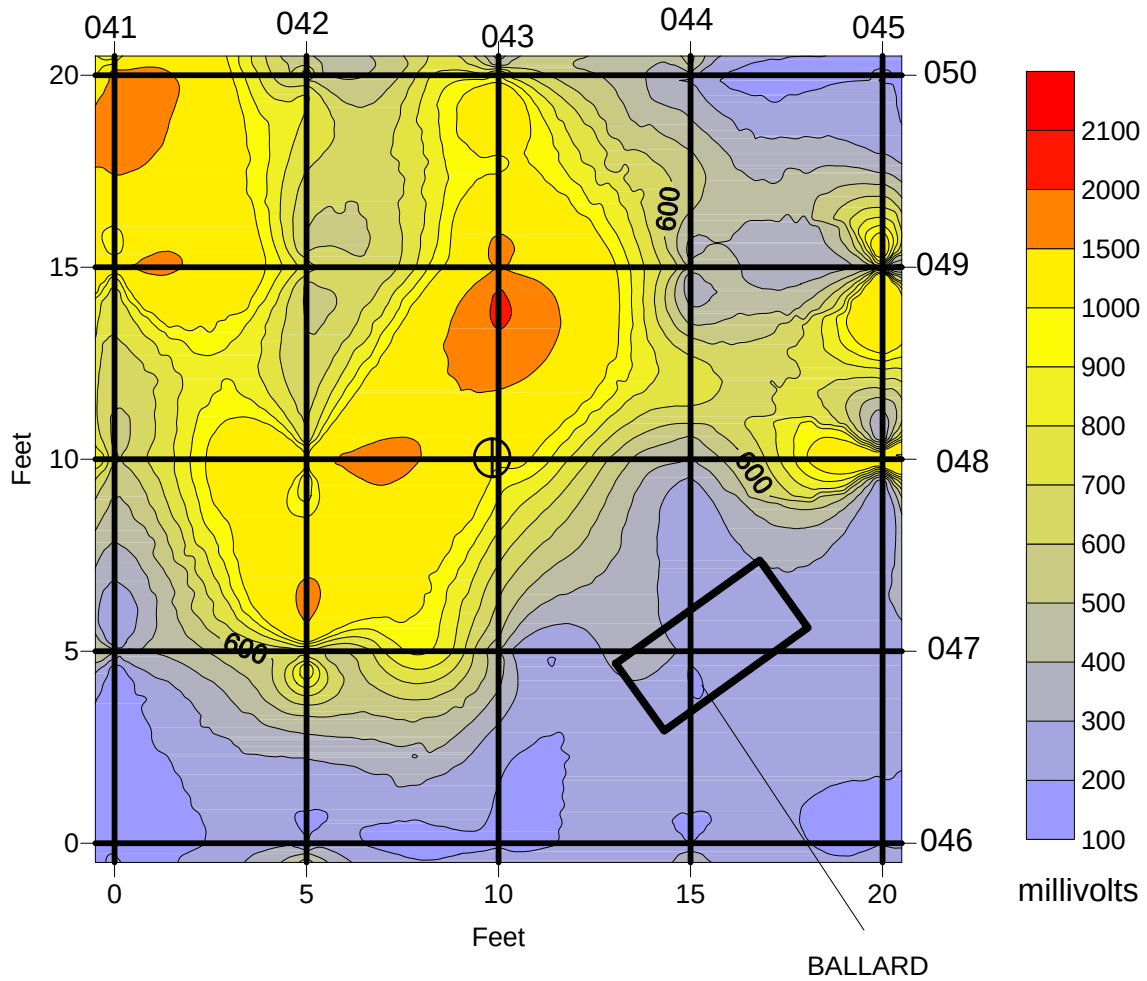
ARM Geophysics

SOIL BORING 1-SB-05

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring #1
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

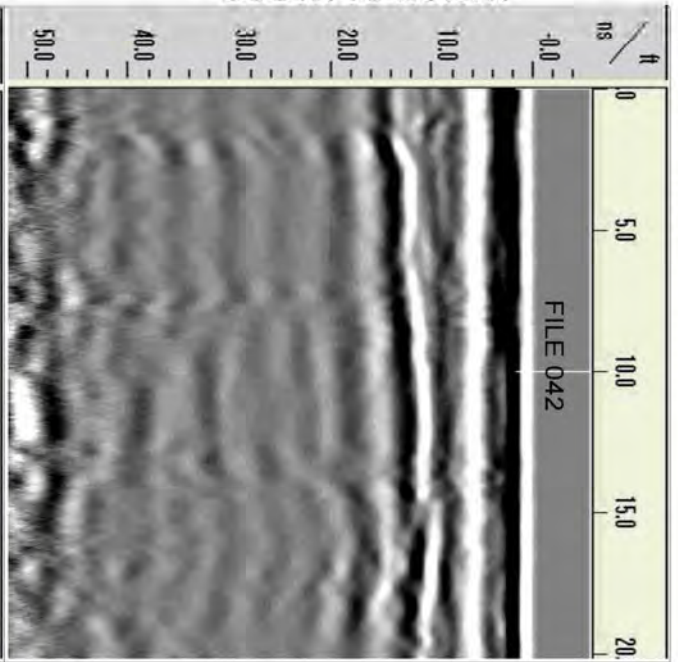
SOIL BORING 1-SB-05

SCALE: 1" = 5'

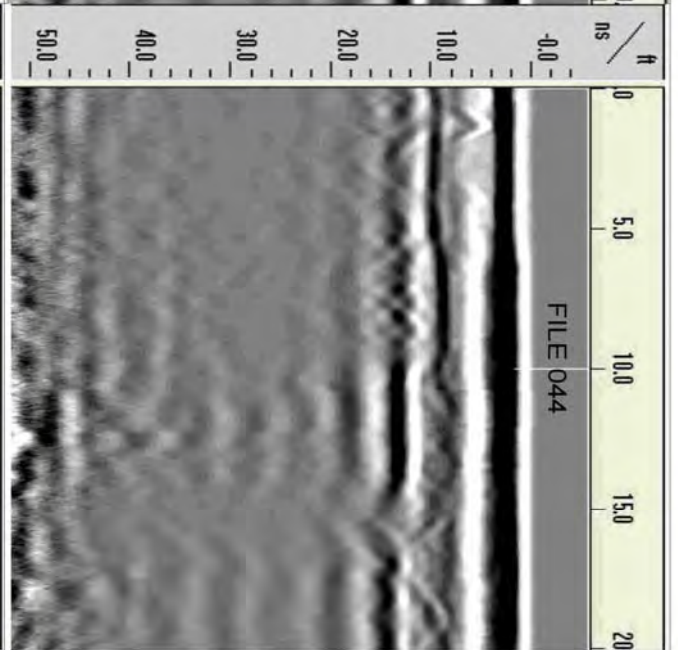
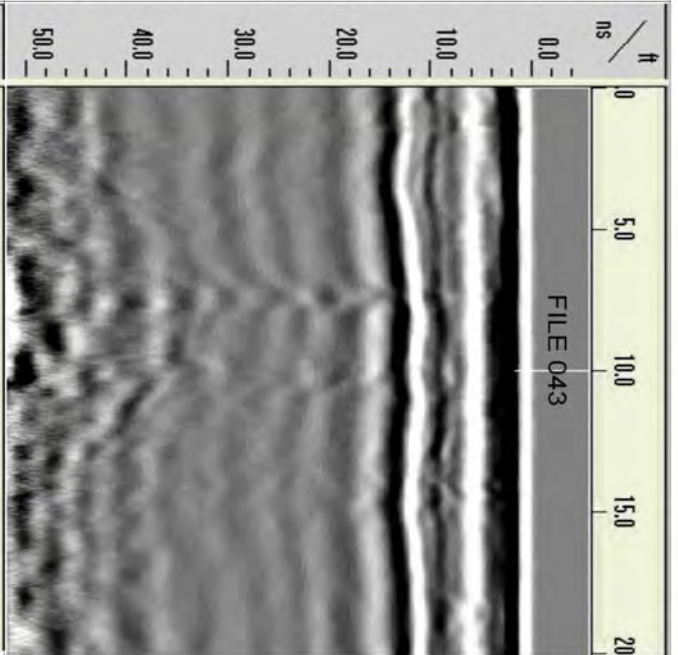
June 21, 2007

Soil Boring 2-SB-05

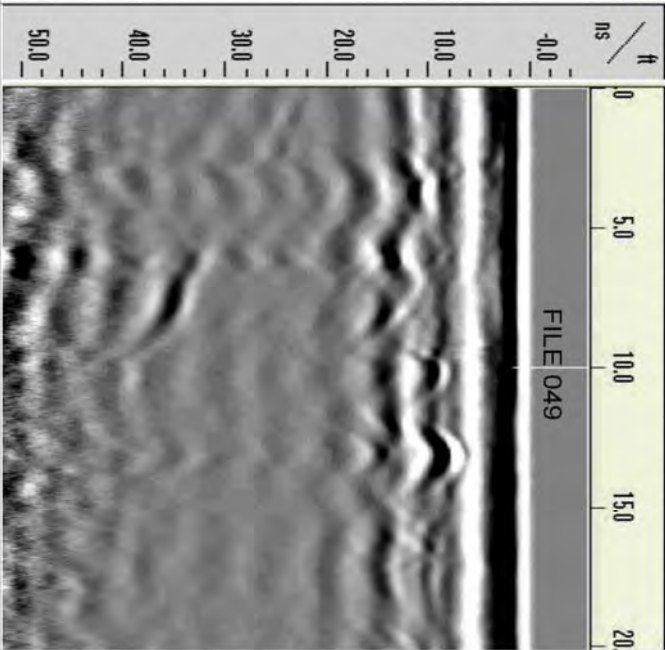
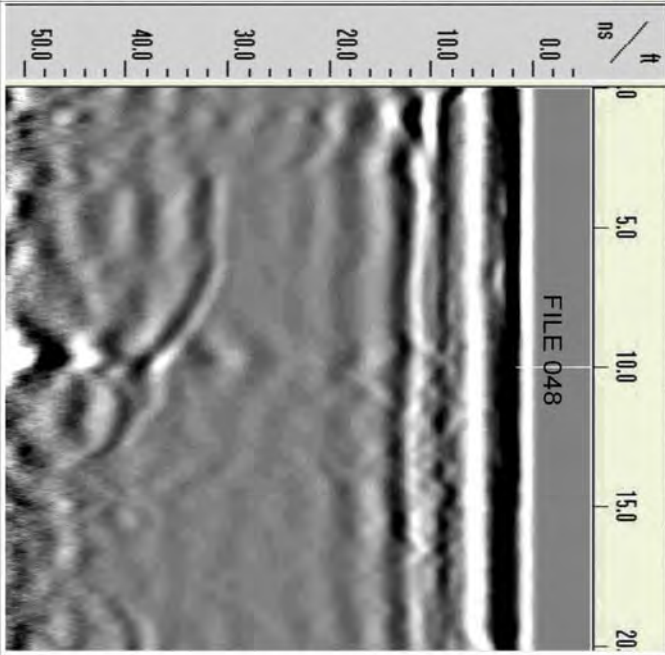
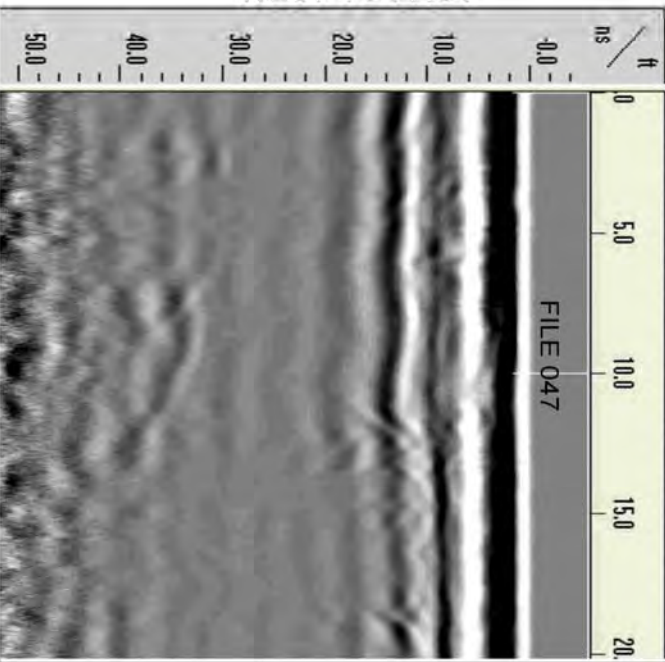
SOUTH TO NORTH



SOUTH TO NORTH



WEST TO EAST



WEST TO EAST

June 24, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 2-SB-06

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-06 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference. The steel chain connecting the two ballards has caused some interference with the EM61 data. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

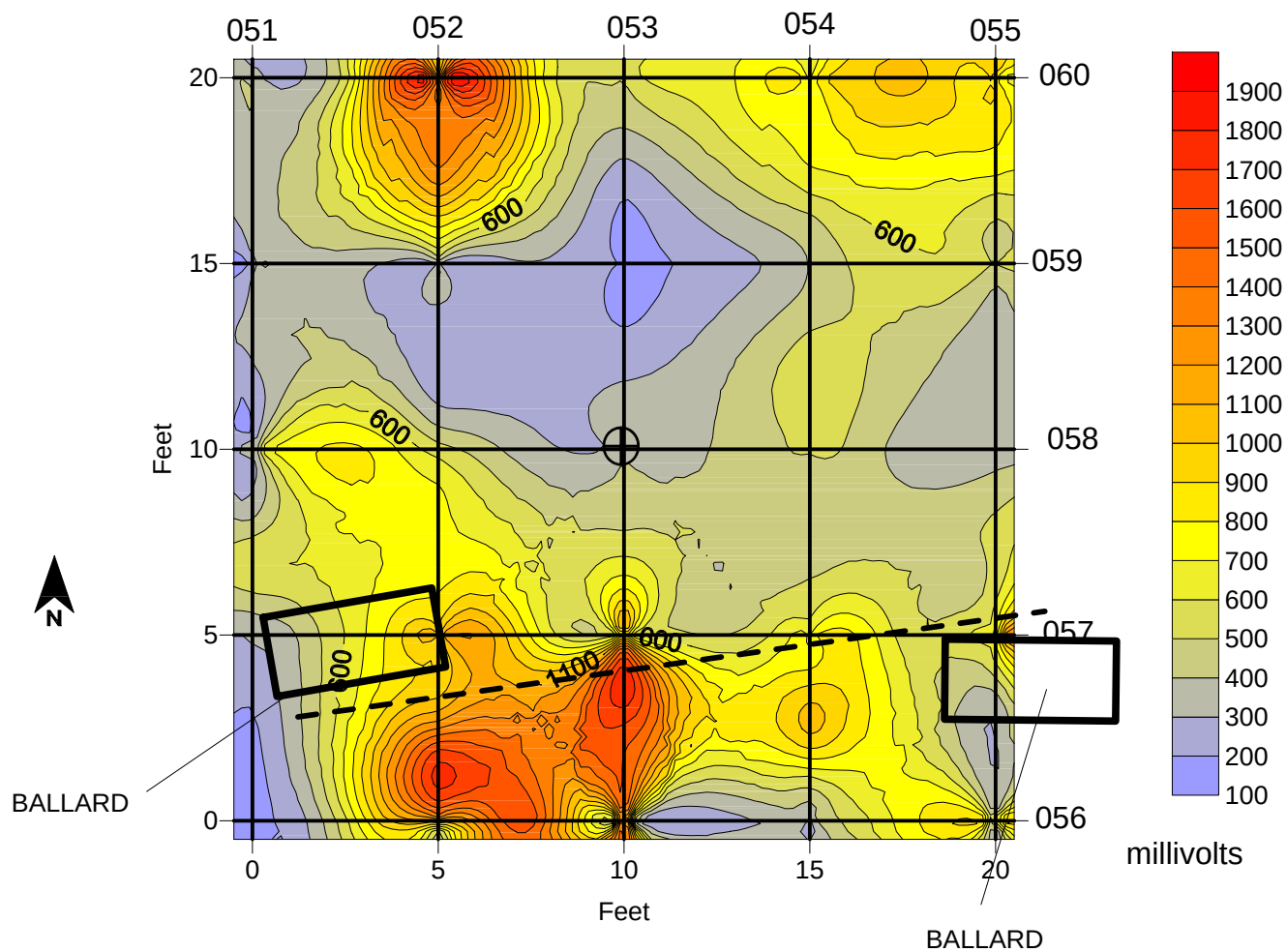
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

-  52500 magnetic contour line
 steel chain
 043 GPR line with file number at start of profile

Soil Boring 1-SB-06
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

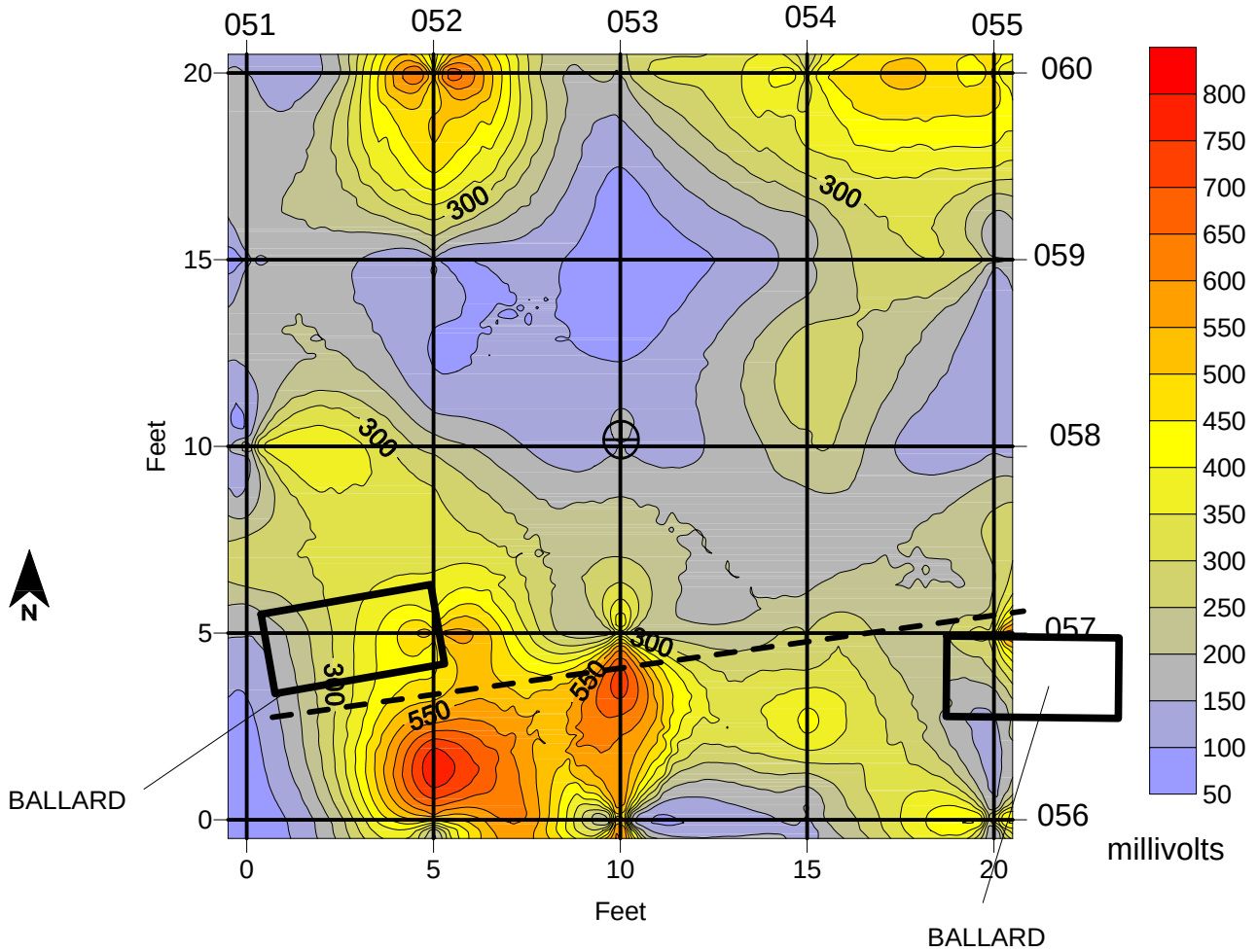
ARM Geophysics

SOIL BORING 2-SB-06

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

-  52500 magnetic contour line
 steel chain
 043 GPR line with file number at start of profile

Soil Boring #1
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

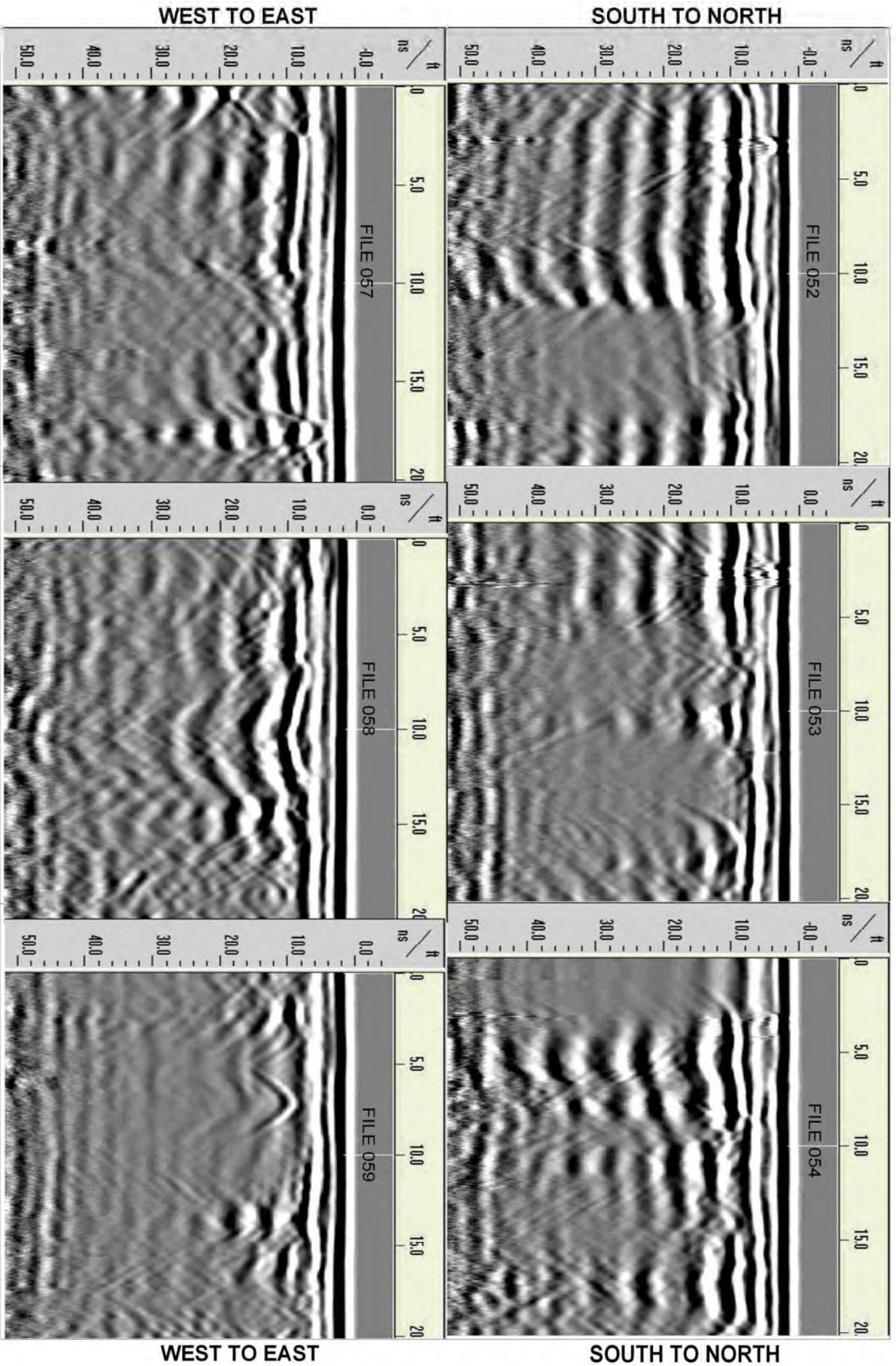
ARM Geophysics

SOIL BORING 2-SB-06

SCALE: 1" = 5'

June 21, 2007

Soil Boring 2-SB-06



June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 2-SB-07

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-07 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 15 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). The standard 20 foot by 20 foot grid was not established due to the chain link fence. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference - for example the anomalies on the eastern side, adjacent to the chain link fence. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

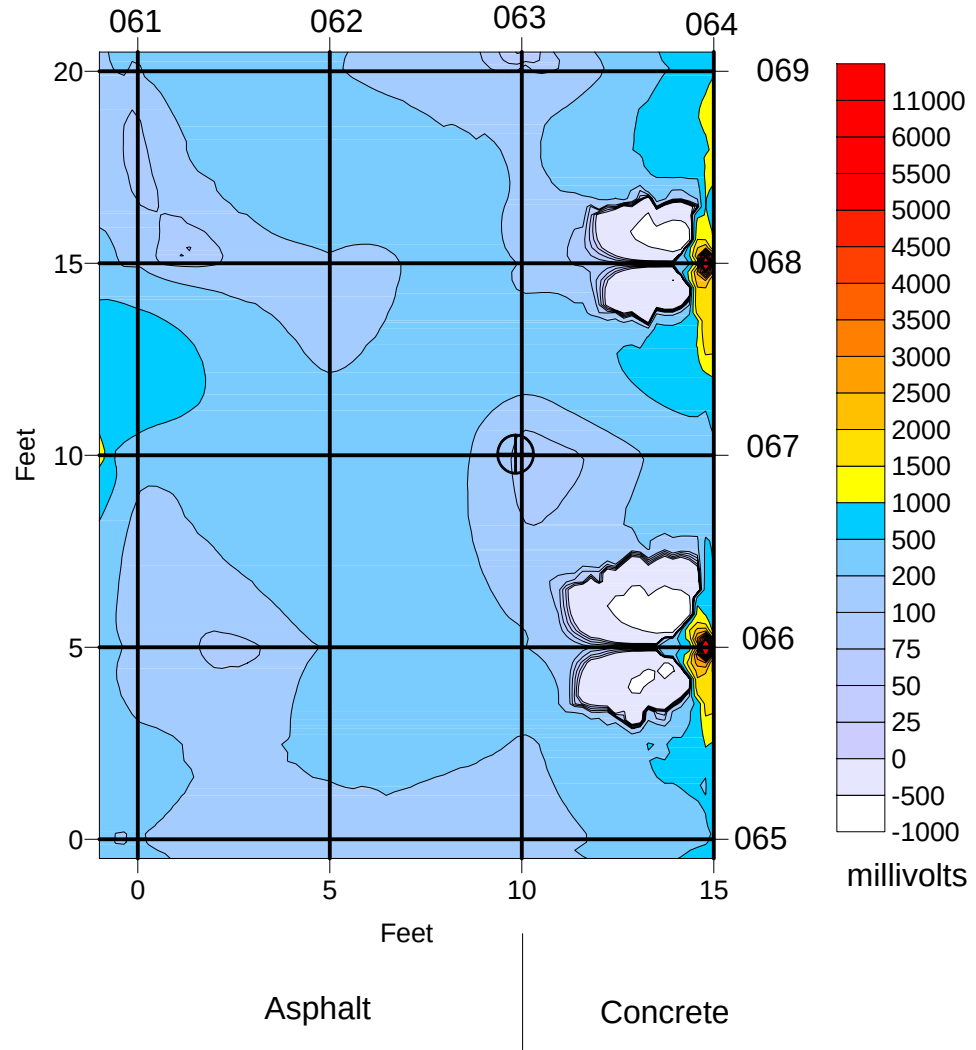
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles did not reveal the presence of anomalies with characteristics of possible utilities; however, there does appear to be a very reflective layer within 20 nanoseconds of the ground surface. This may be a different soil type or possibly fill material.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-07
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

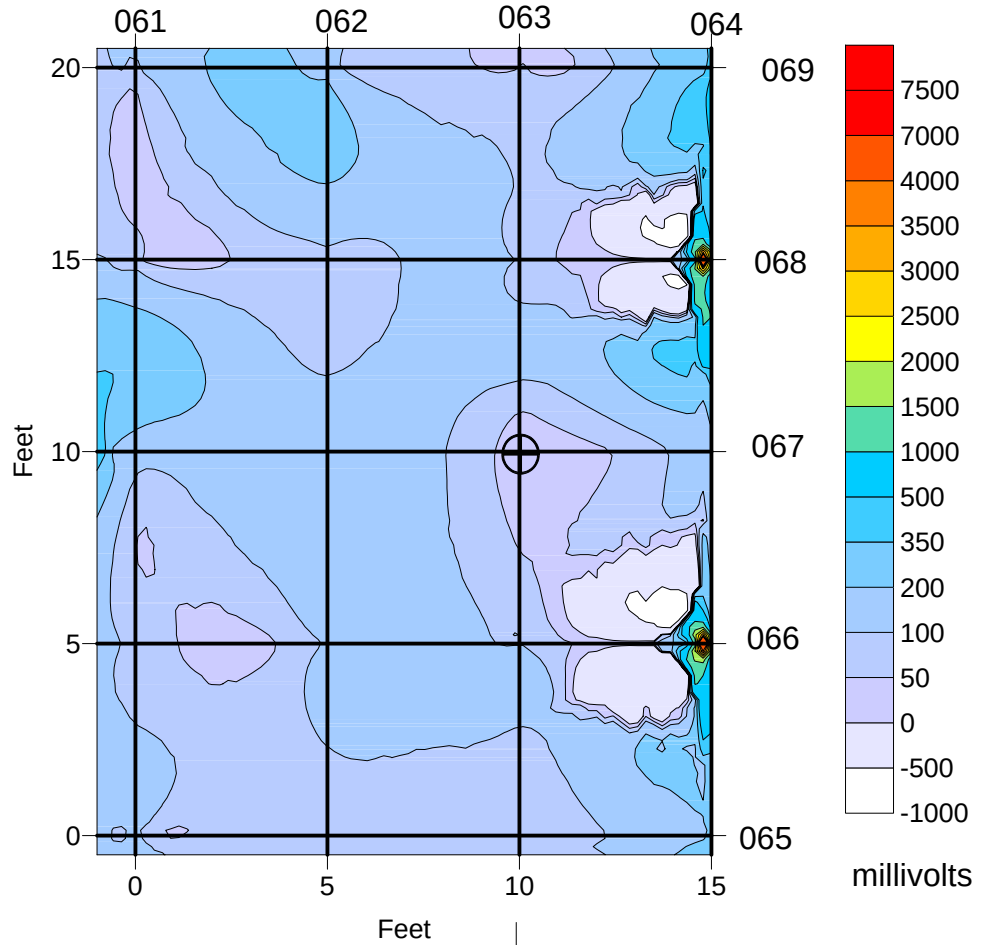
ARM Geophysics

SOIL BORING 2-SB-07

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



Asphalt

Concrete

KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-07
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

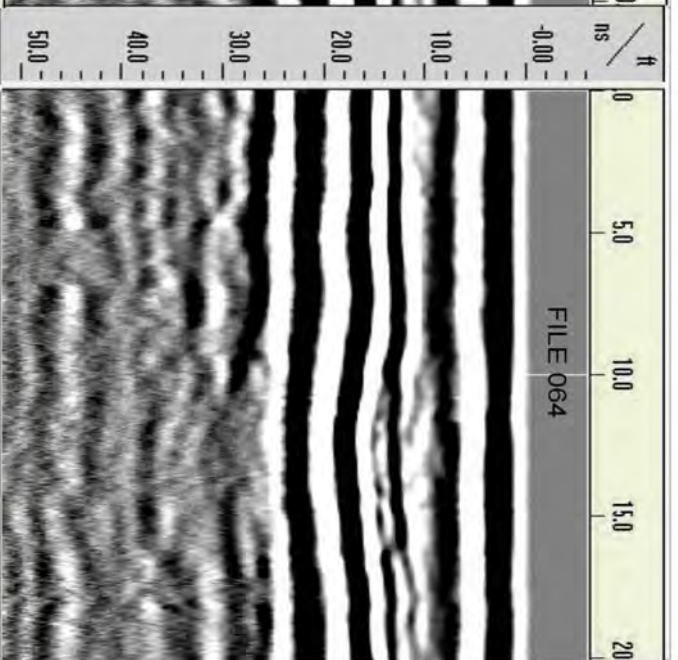
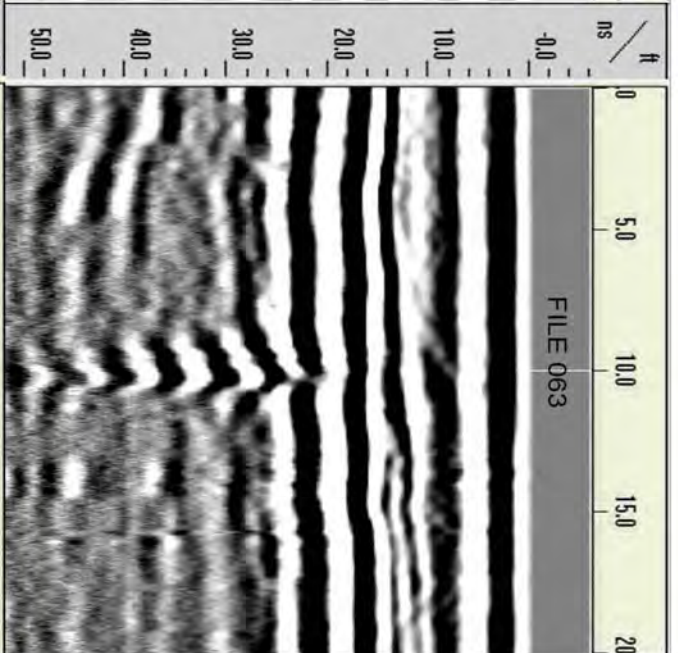
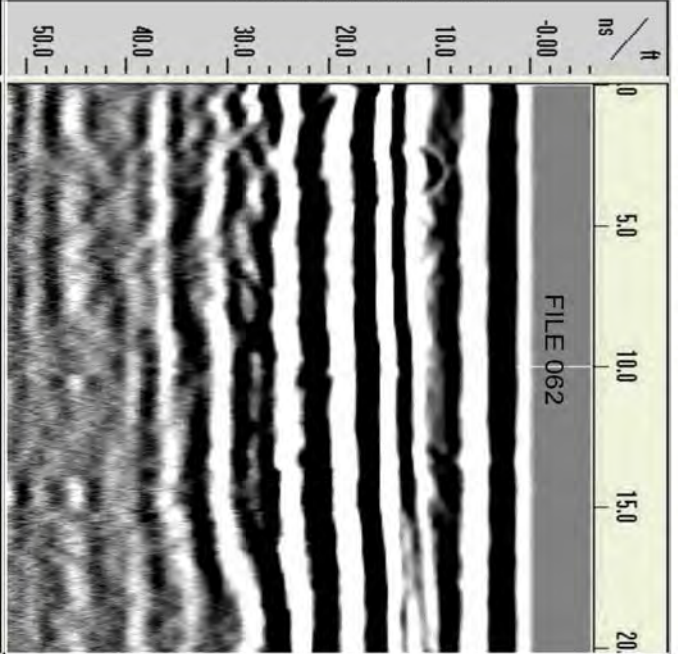
SOIL BORING 2-SB-07

SCALE: 1" = 5'

June 21, 2007

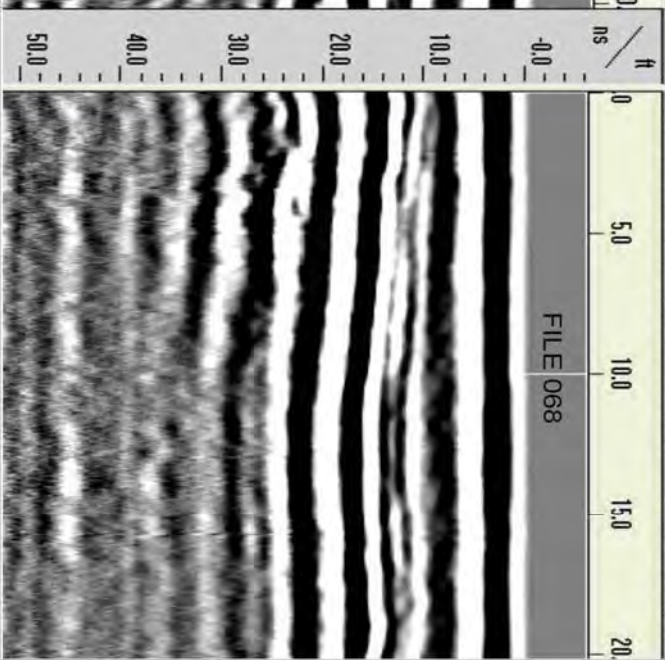
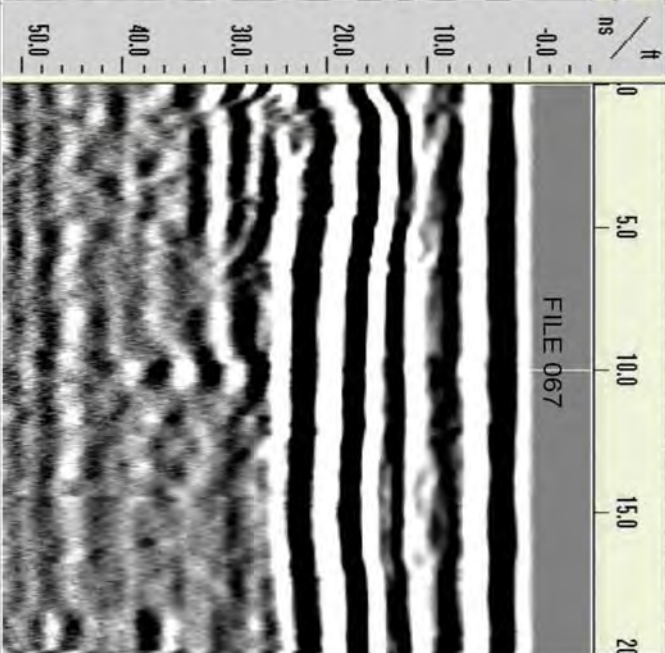
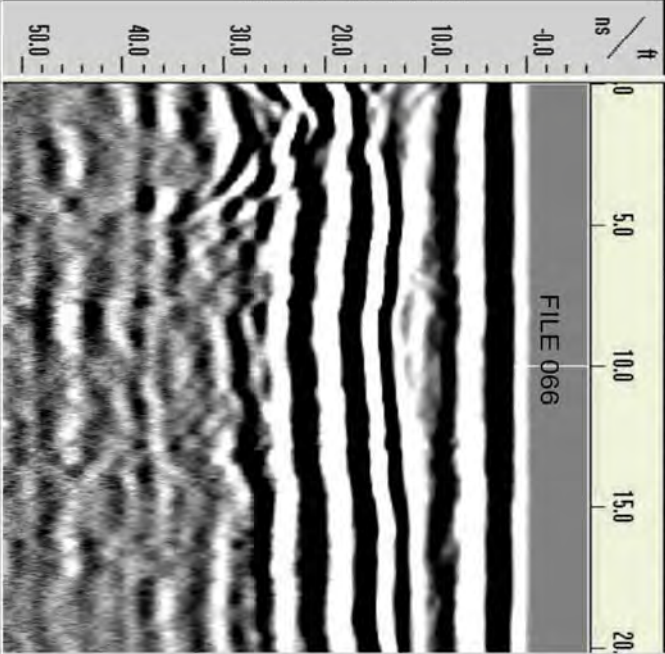
Soil Boring 2-SB-07

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 2-SB-08

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-08 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is an elongated anomaly that trends from the northwest to the south within the grid. The anomaly is present on both time gates.

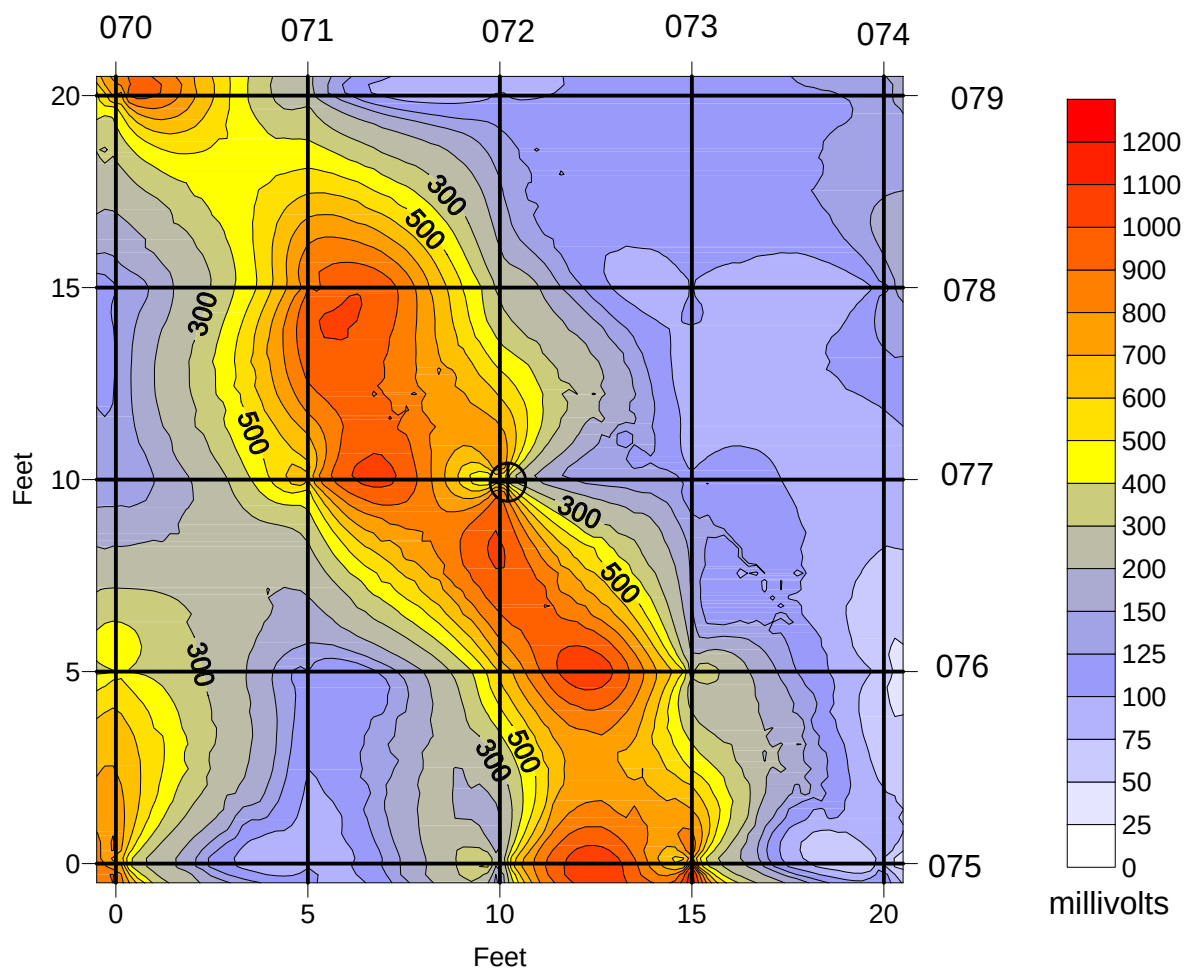
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated an anomaly along the same orientation as the anomaly in the EM61 data.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-05
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

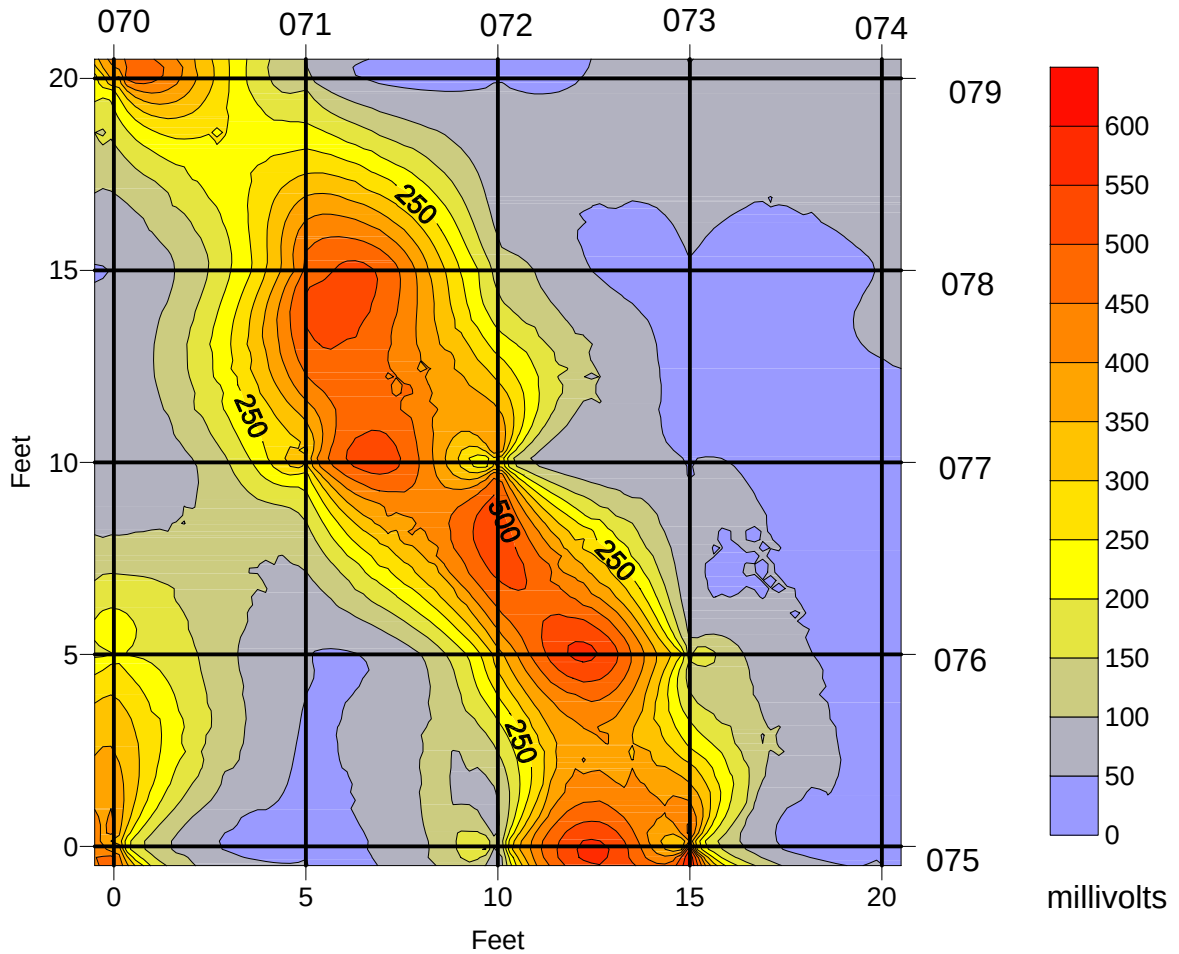
ARM Geophysics

SOIL BORING 2-SB-08

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-05
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

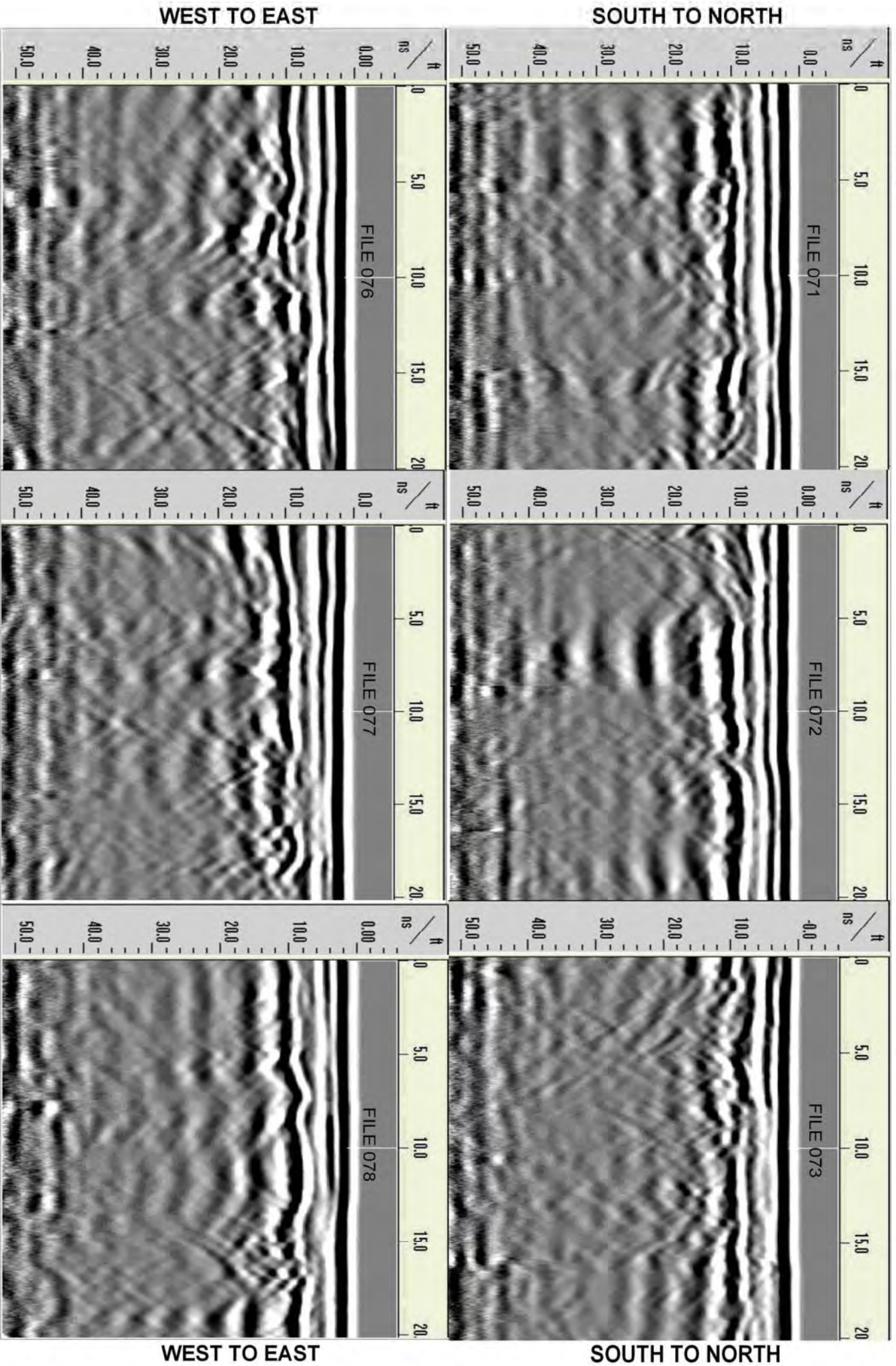
ARM Geophysics

SOIL BORING 2-SB-08

SCALE: 1" = 5'

June 21, 2007

Soil Boring 2-SB-08



June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 2-SB-09

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-09 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

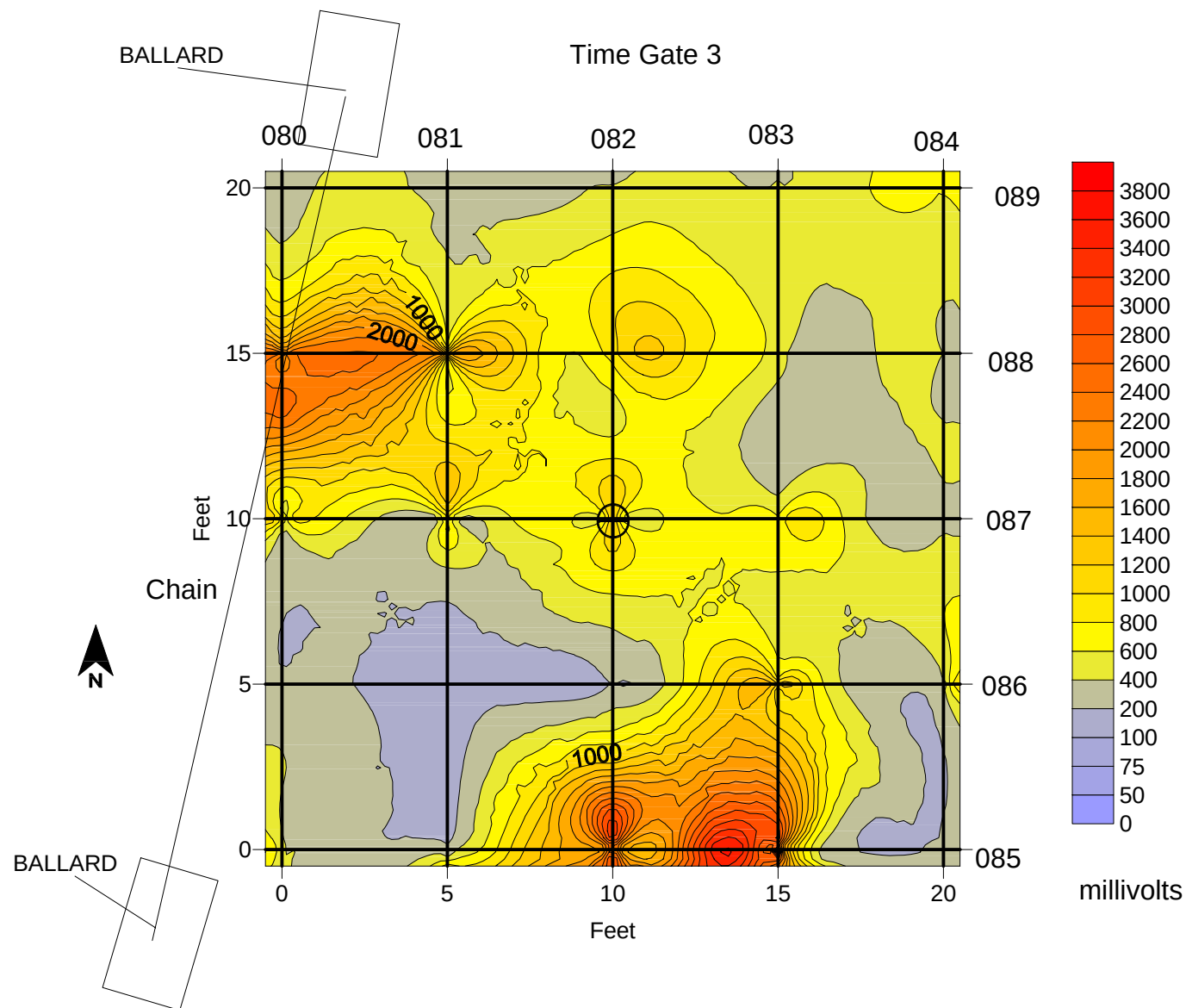
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from surface objects such as the ballards with concrete bases. A steel chain also traverses from the southwest to the north along the western portion of the grid.

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated a reflective layer/anomaly along the western portions of the survey area, similar to anomalies detected in the EM61 data.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-09
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

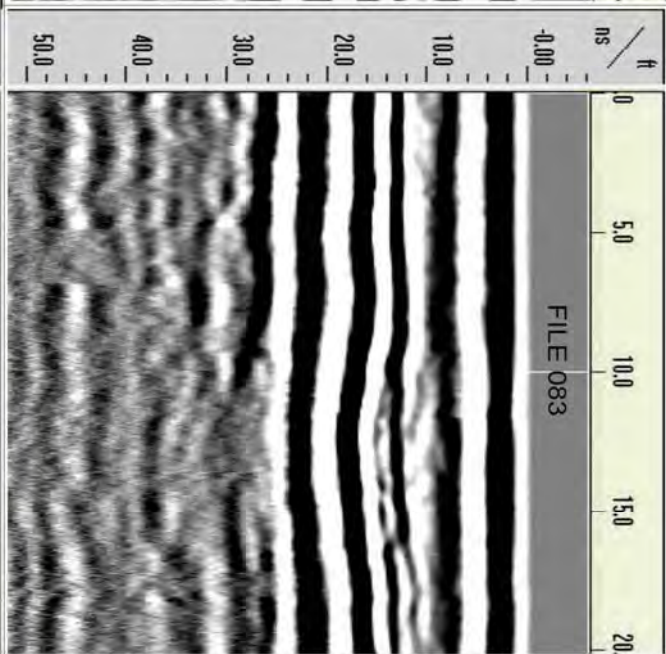
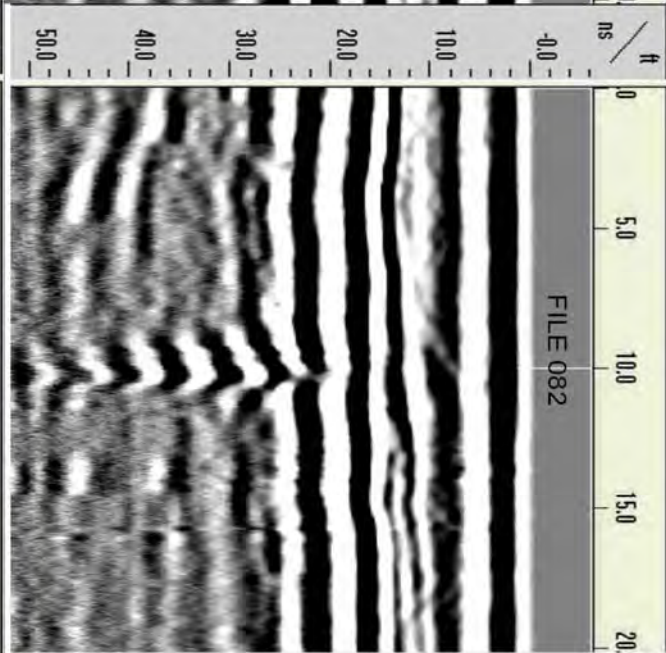
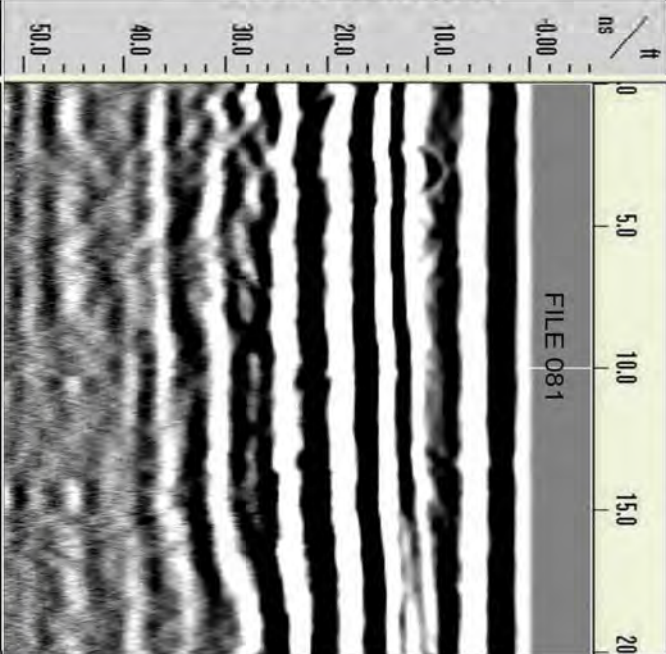
SOIL BORING 2-SB-09

SCALE: 1" = 5'

June 21, 2007

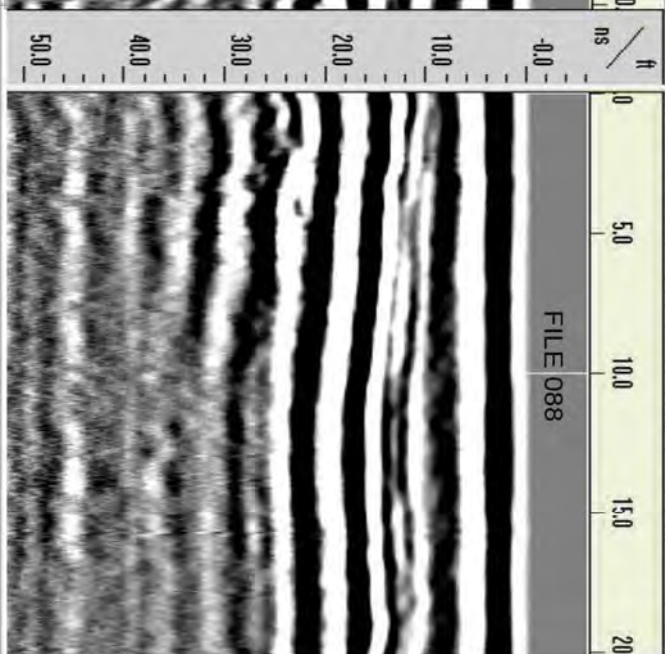
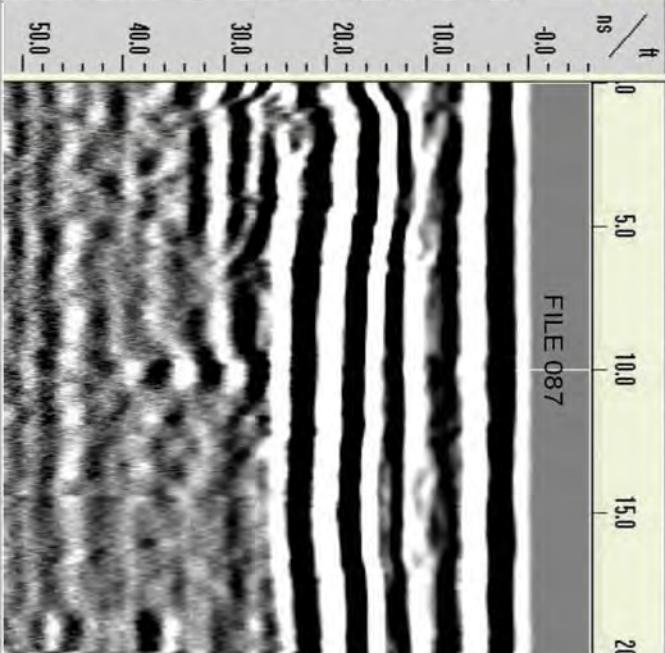
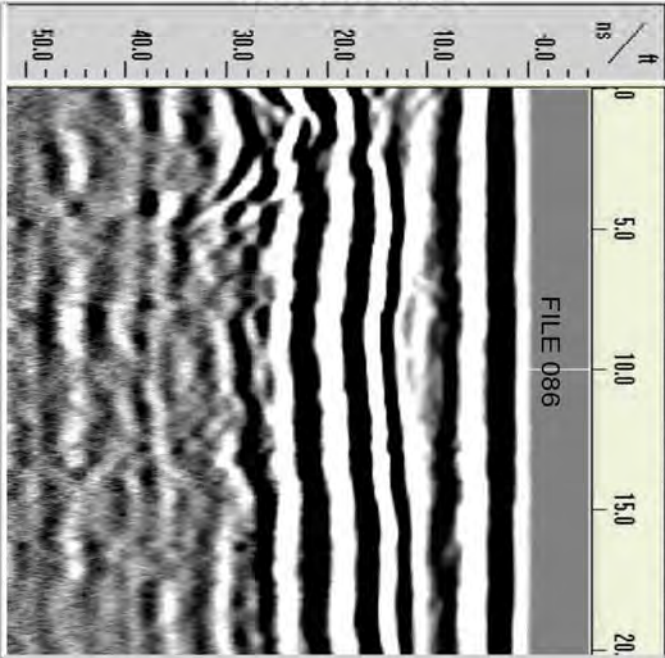
Soil Boring 2-SB-09

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 2-SB-10

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 1-SB-10 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from surface objects such as the ballards with concrete bases and monitoring wells. A steel chain also traverses from the southwest to the north along the western portion of the grid.

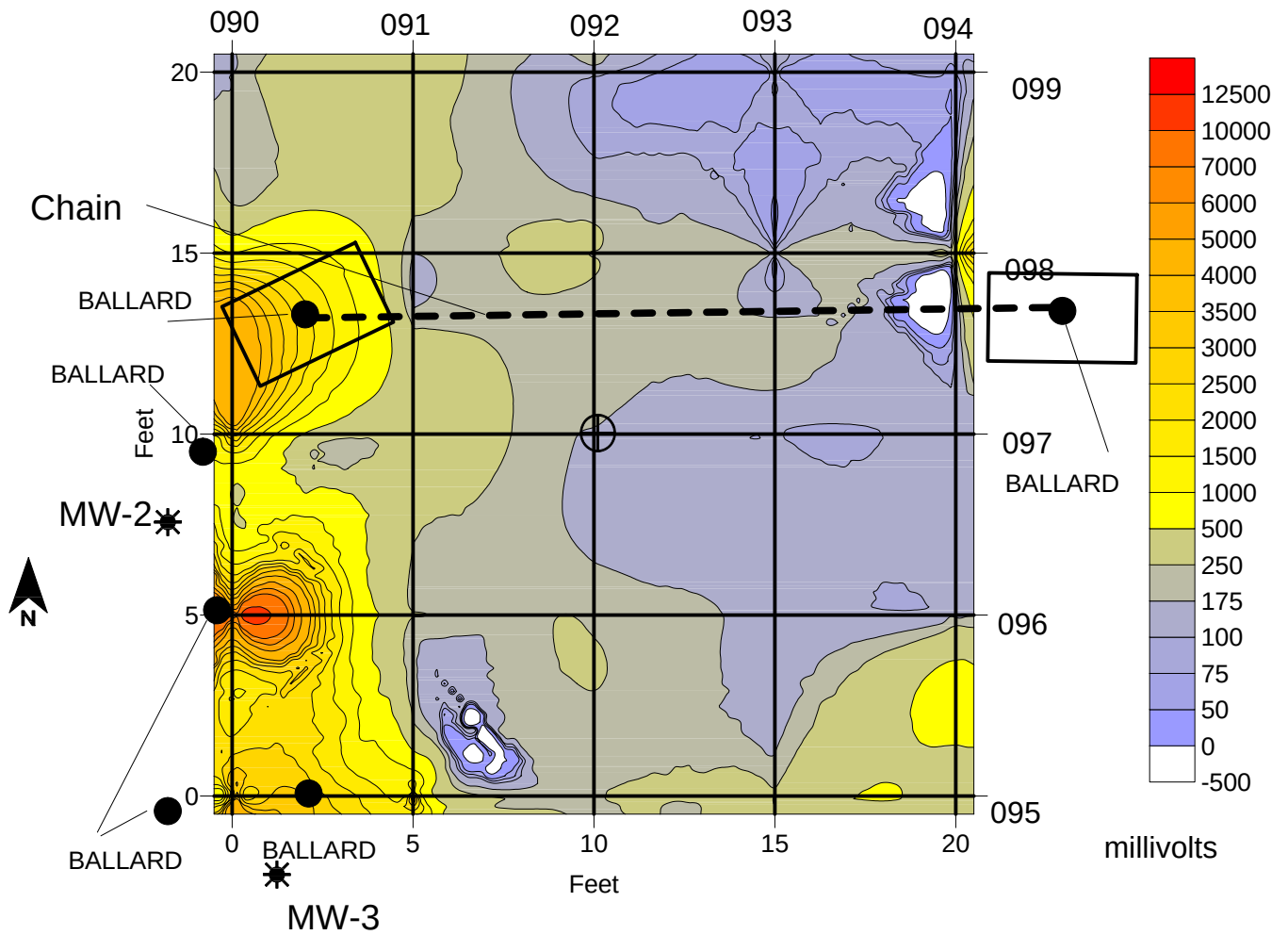
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of anomalies within the subsurface. However they do not appear to have characteristic anomalies of possible utilities. Their origin is unknown.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-10
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

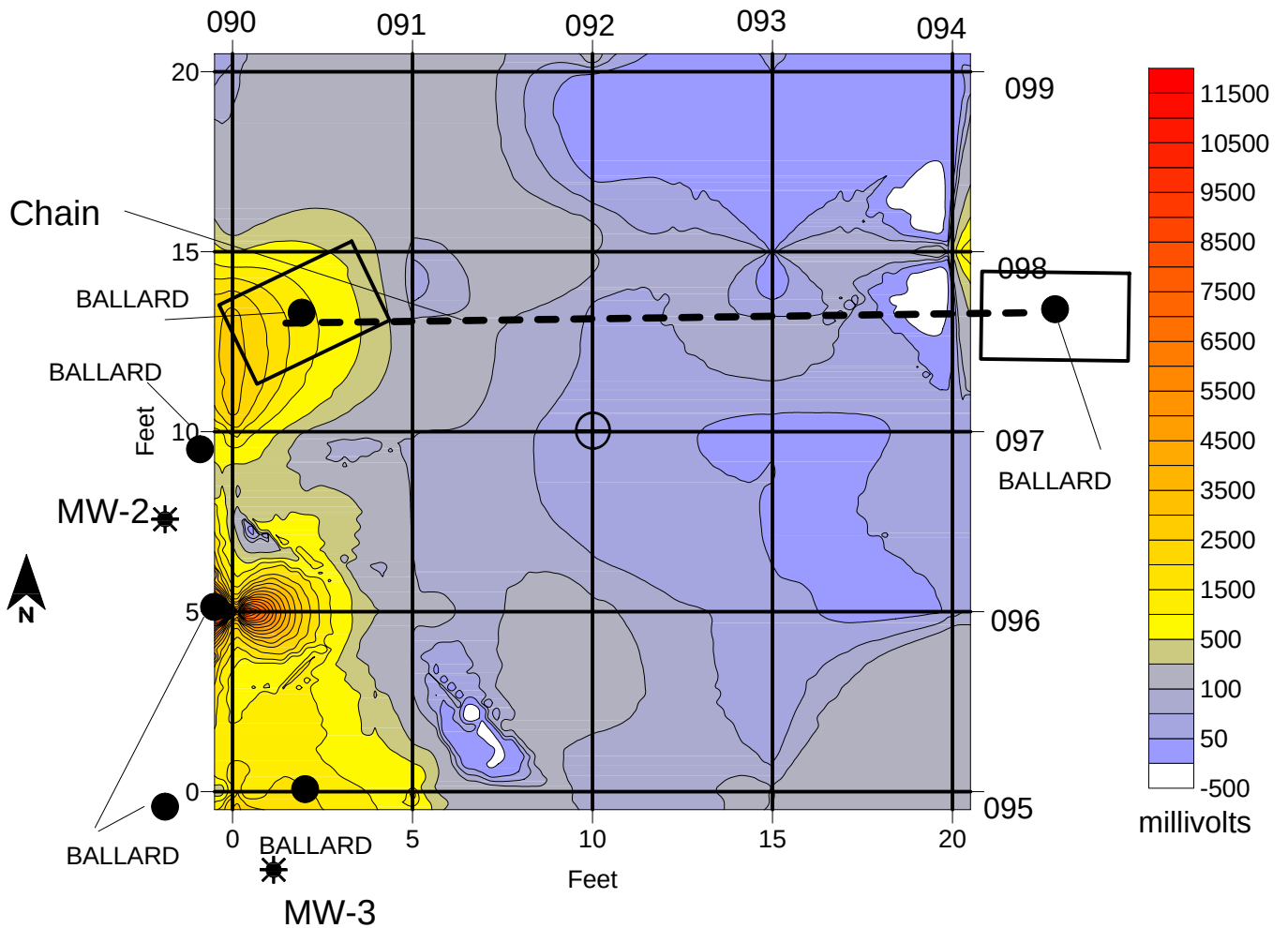
ARM Geophysics

SOIL BORING 2-SB-10

SCALE: 1" = 5'

June 21, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 1-SB-10
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

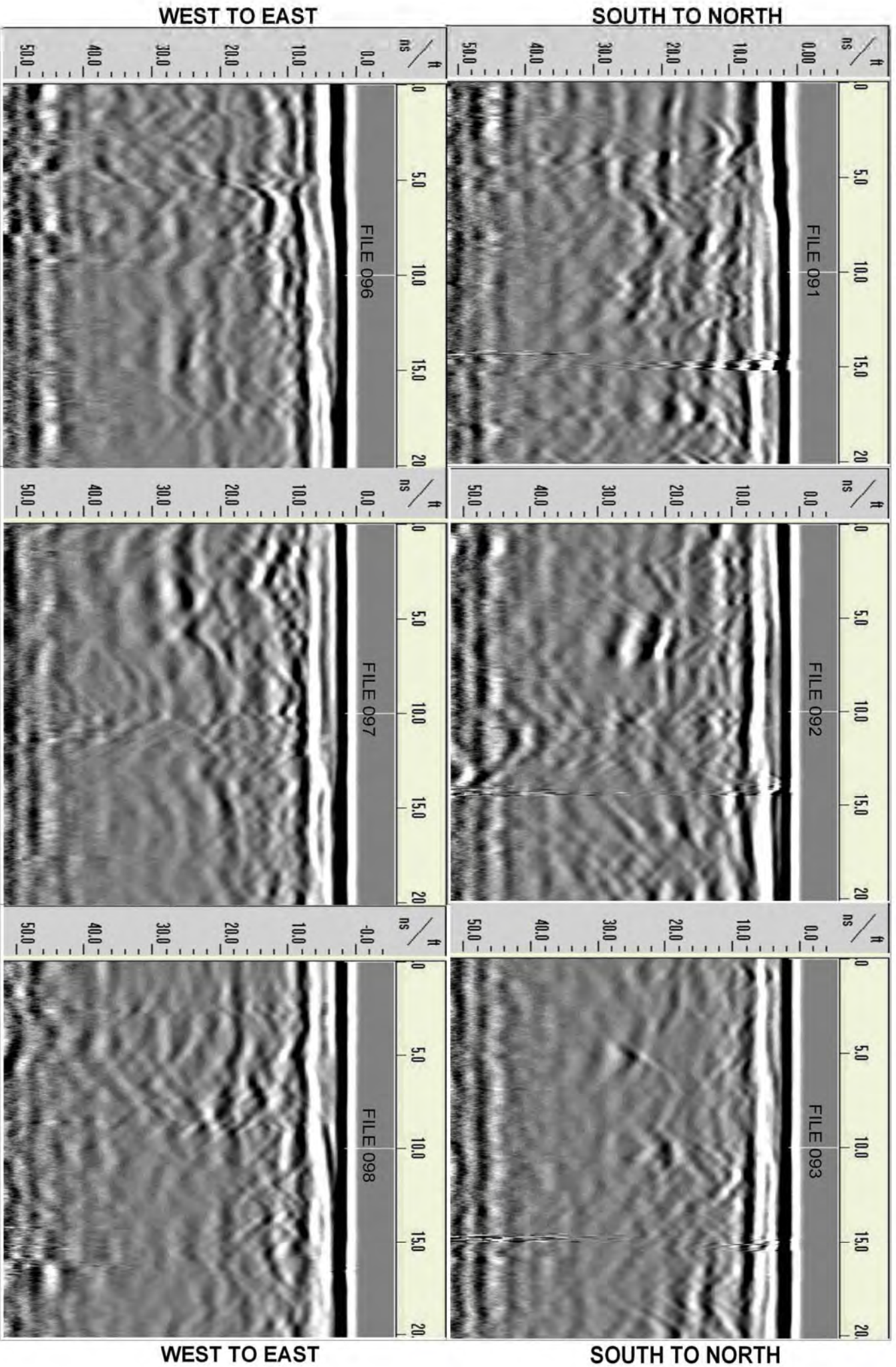
ARM Geophysics

SOIL BORING 2-SB-10

SCALE: 1" = 5'

June 21, 2007

Soil Boring 2-SB-10



June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-30

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-30 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference such as the railroad tracks and utility pole. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

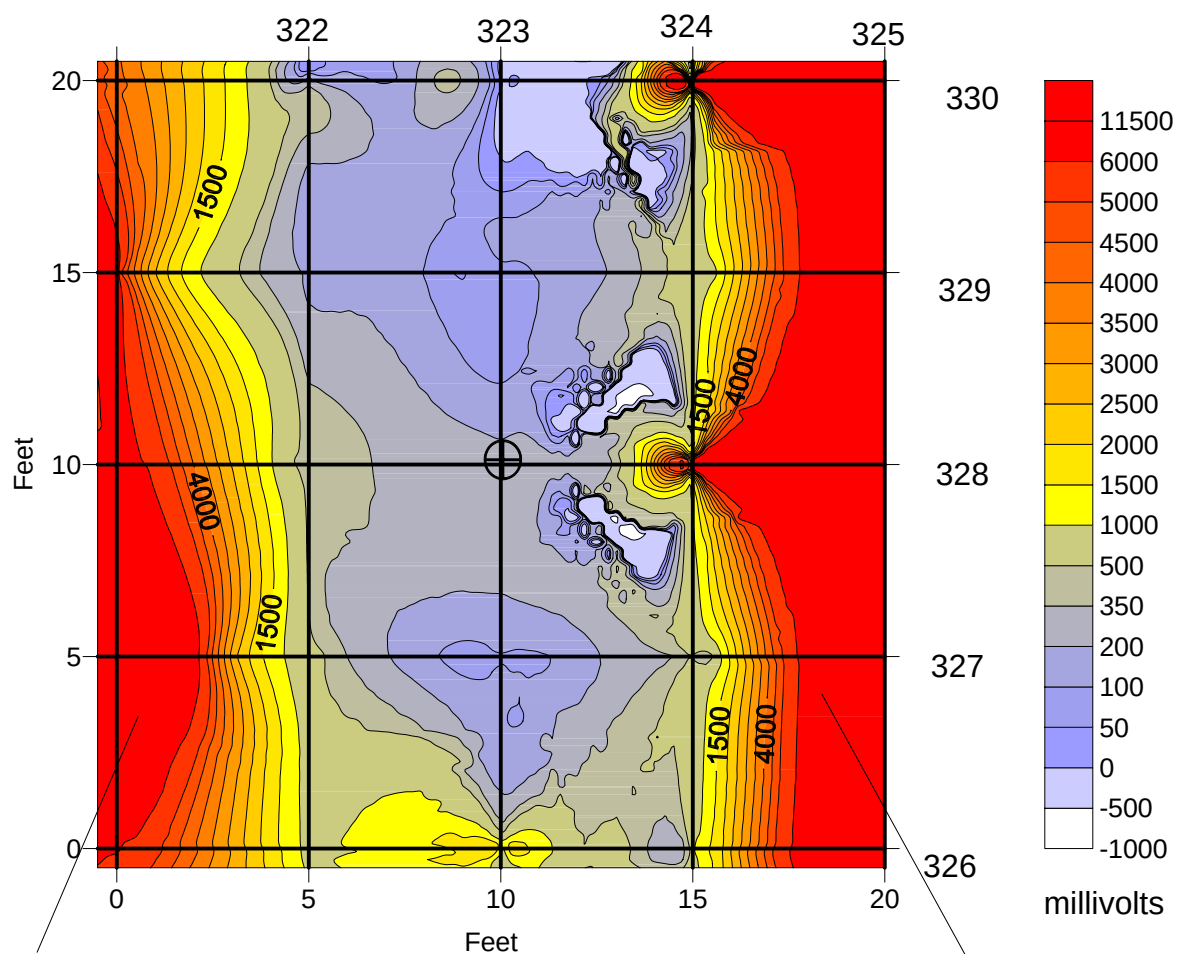
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



Railroad
Tracks

Railroad
Tracks

KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-30
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

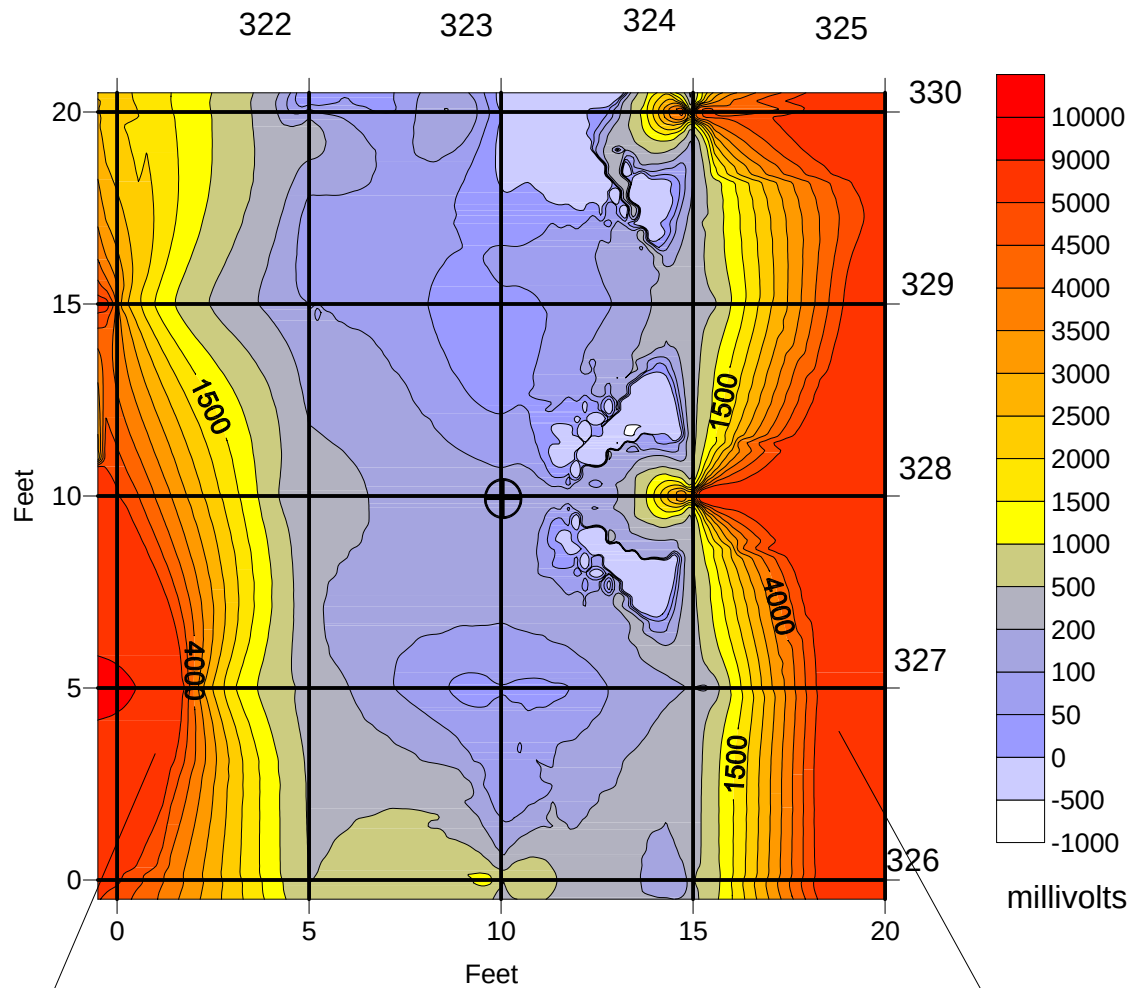
ARM Geophysics

SOIL BORING 3-SB-30

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



Railroad
Tracks

Railroad
Tracks

KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-30
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

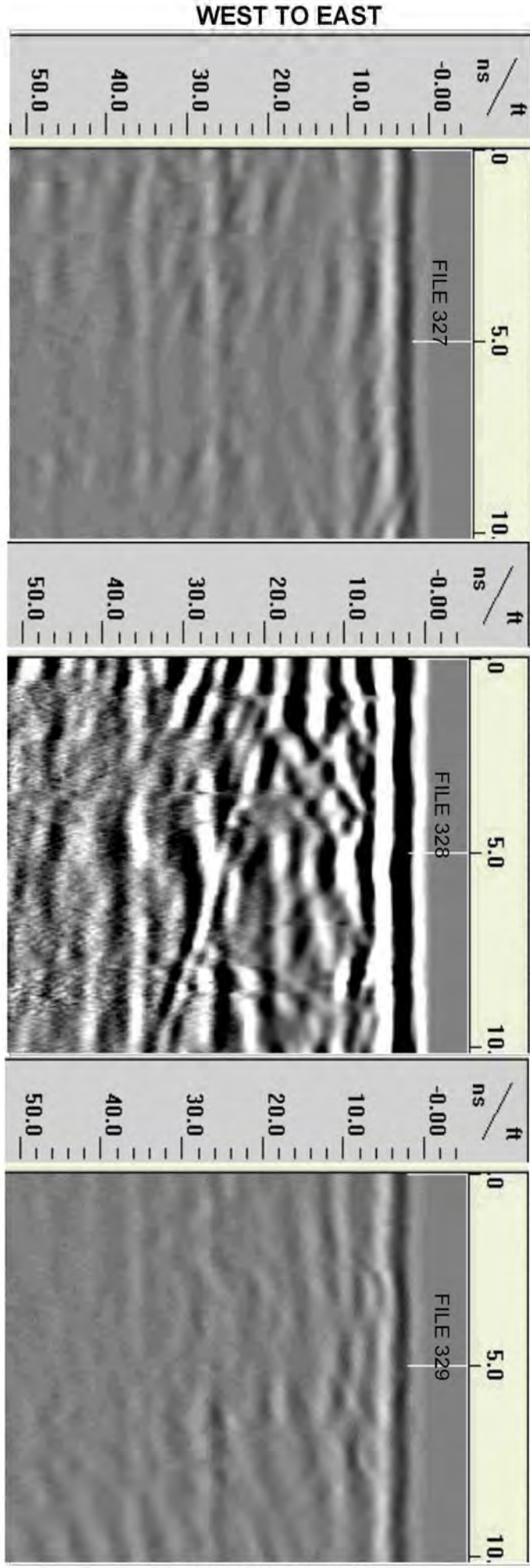
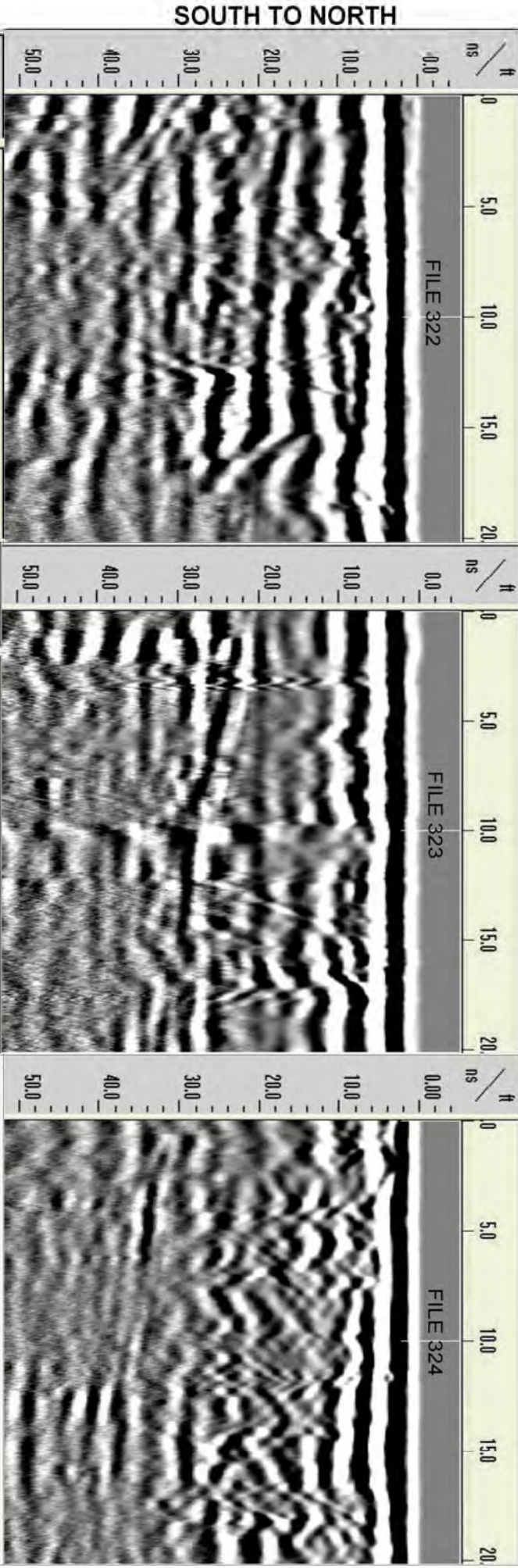
ARM Geophysics

SOIL BORING 3-SB-30

SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-30



SOUTH TO NORTH

WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-31

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-31 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are anomalies that are attributed to surface features and interference such as the railroad tracks to the southwest of the survey grid. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

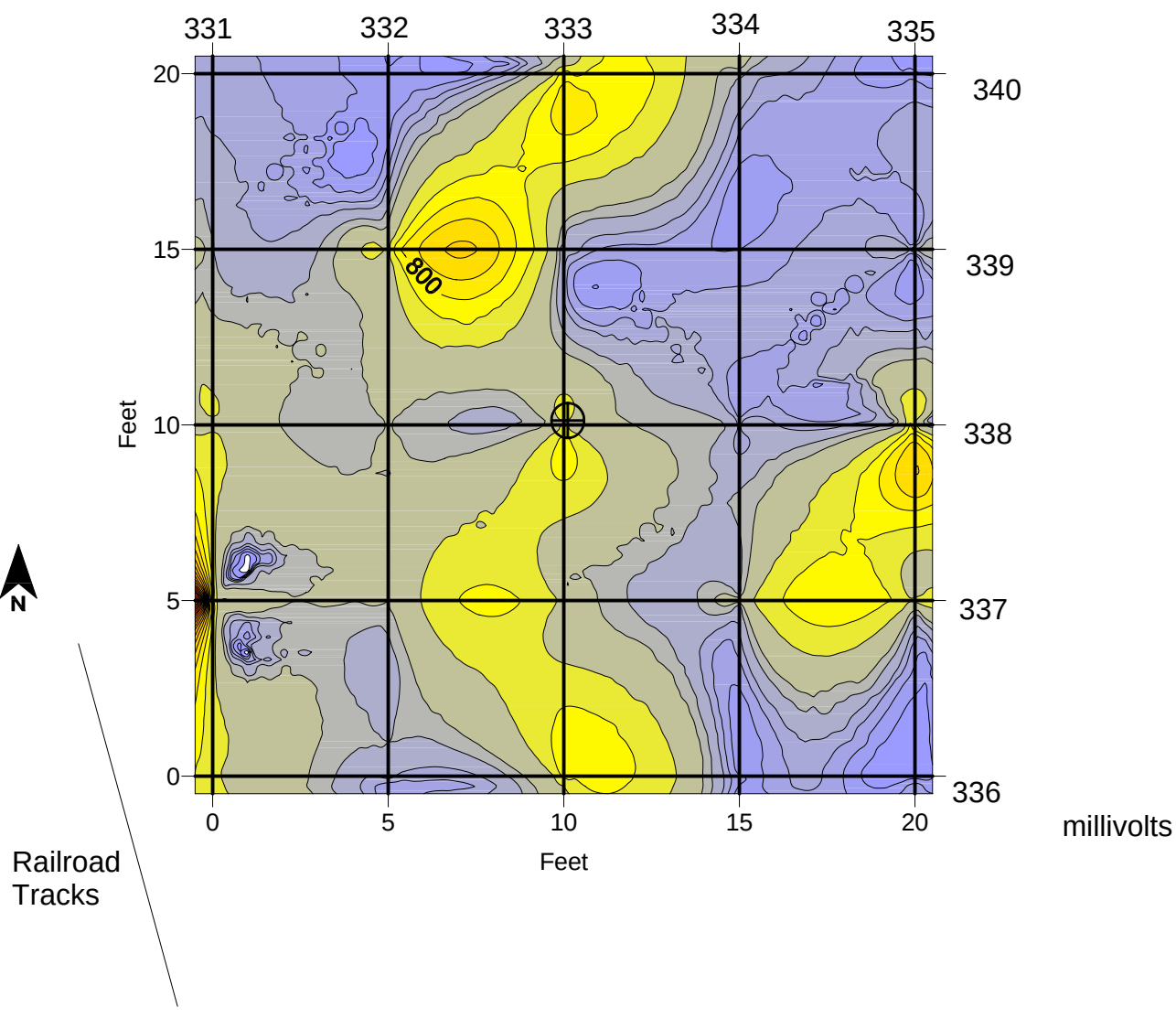
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-31
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

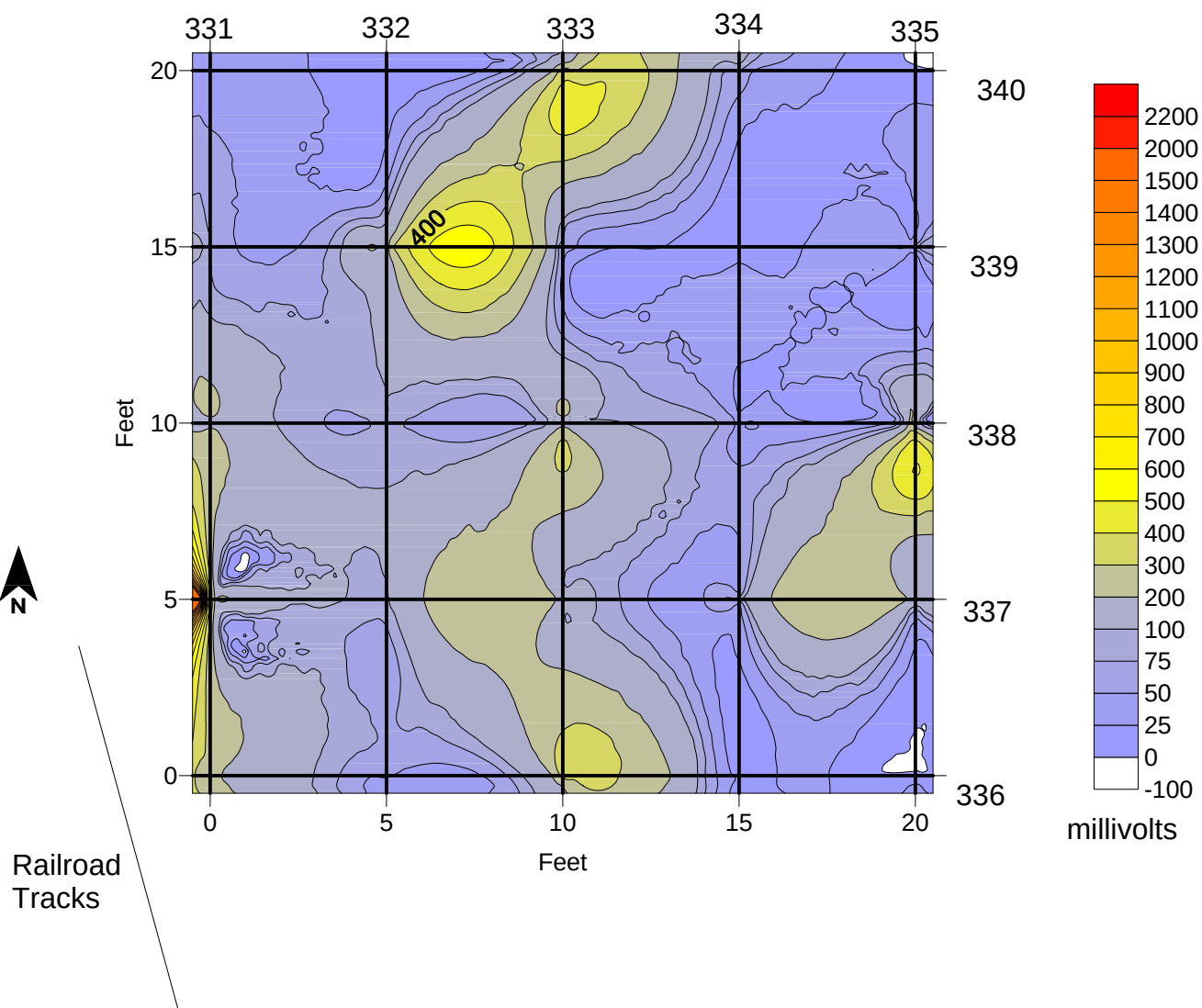
ARM Geophysics

SOIL BORING 3-SB-31

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-31
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

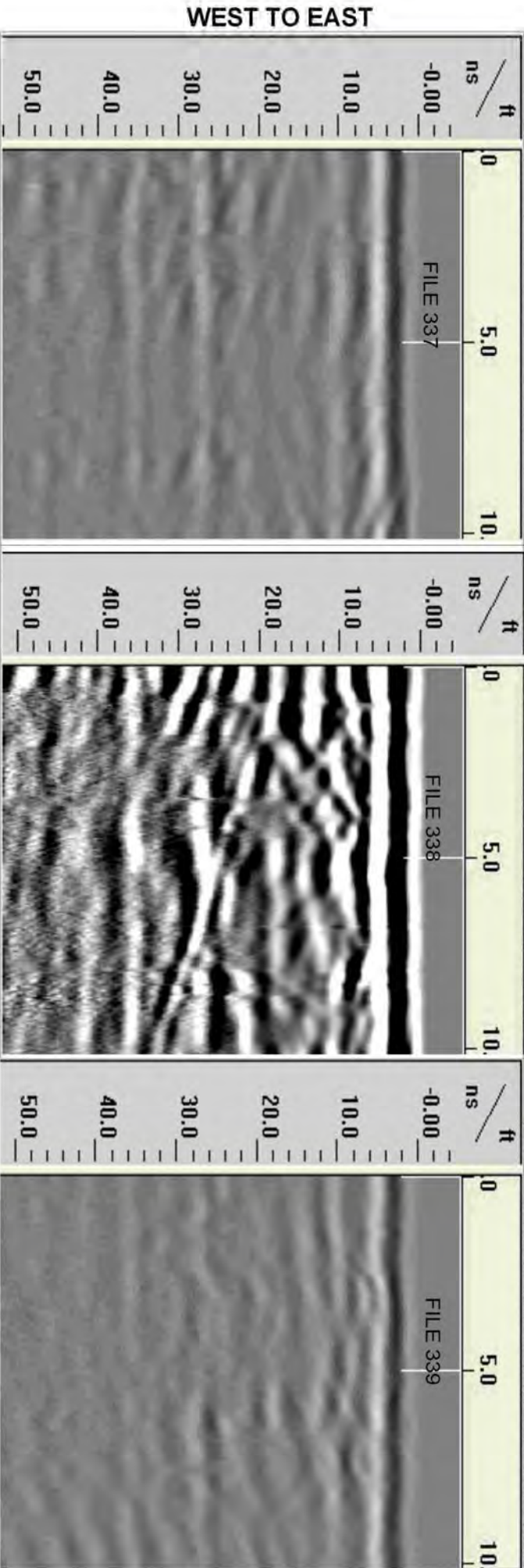
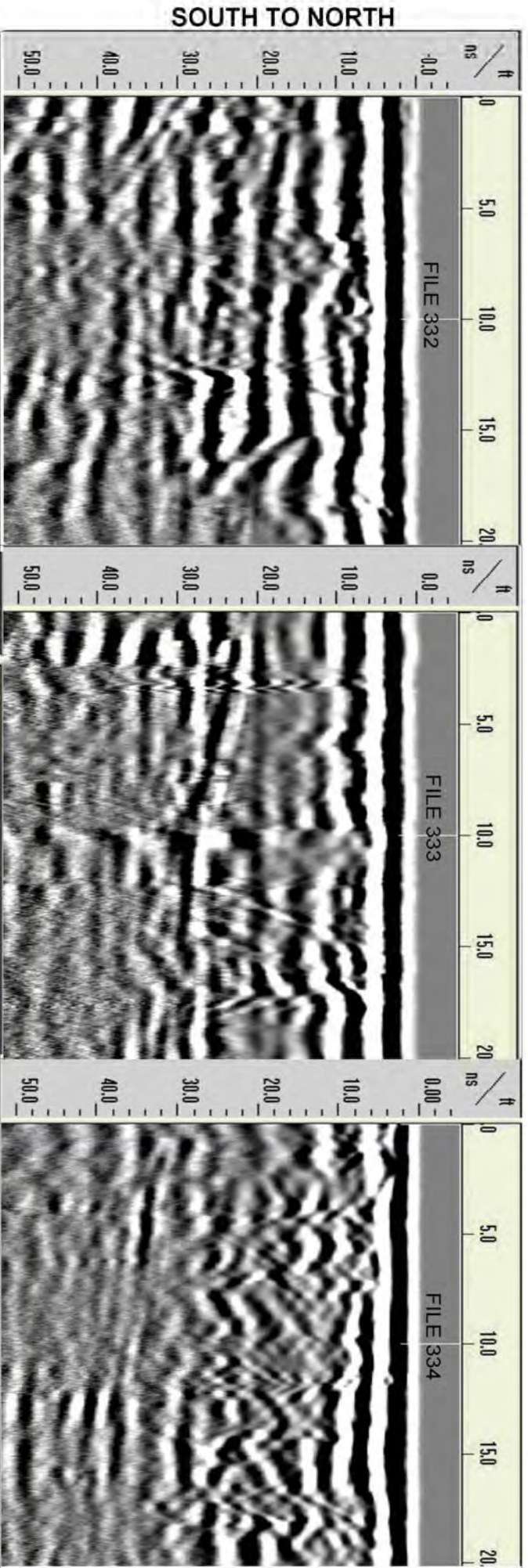
ARM Geophysics

SOIL BORING 3-SB-31

SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-31



SOUTH TO NORTH

WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-32

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-32 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference such as the railroad tracks and concrete pads. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

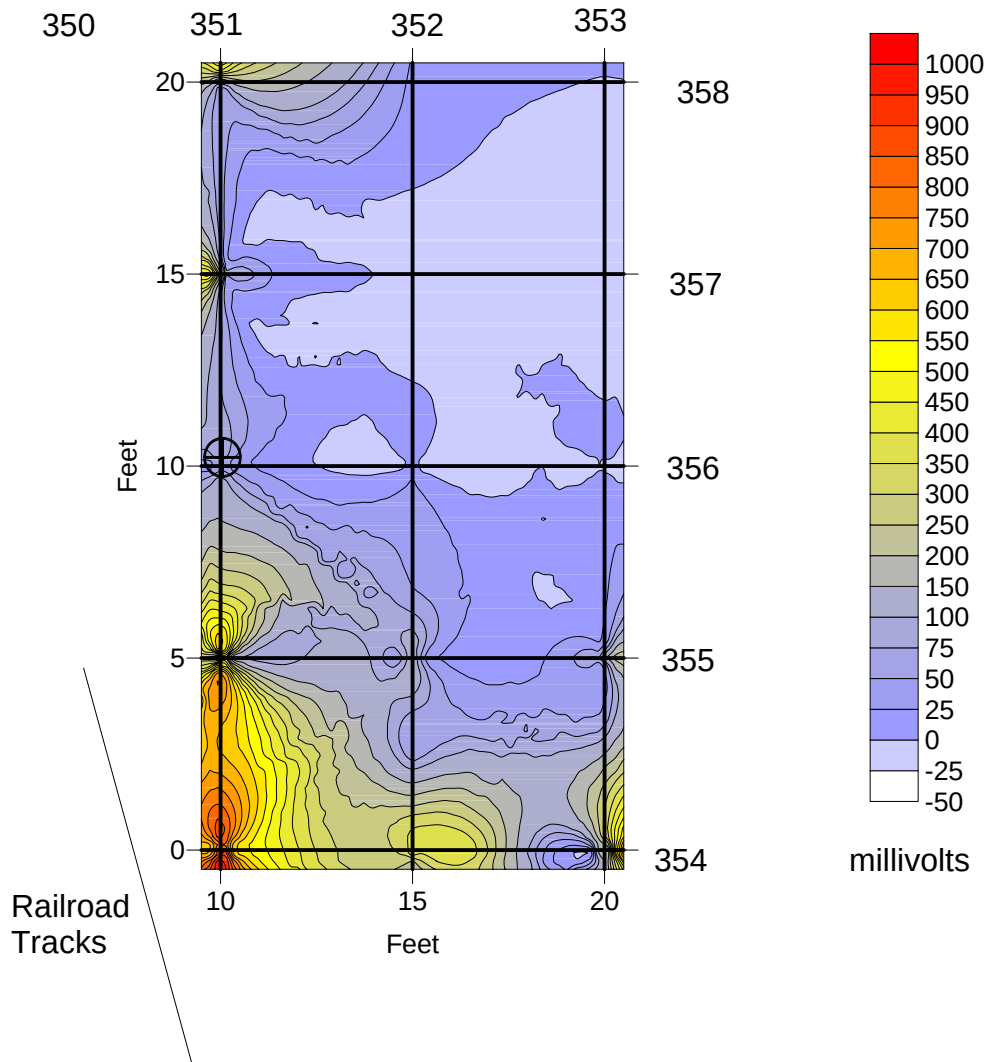
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-32
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

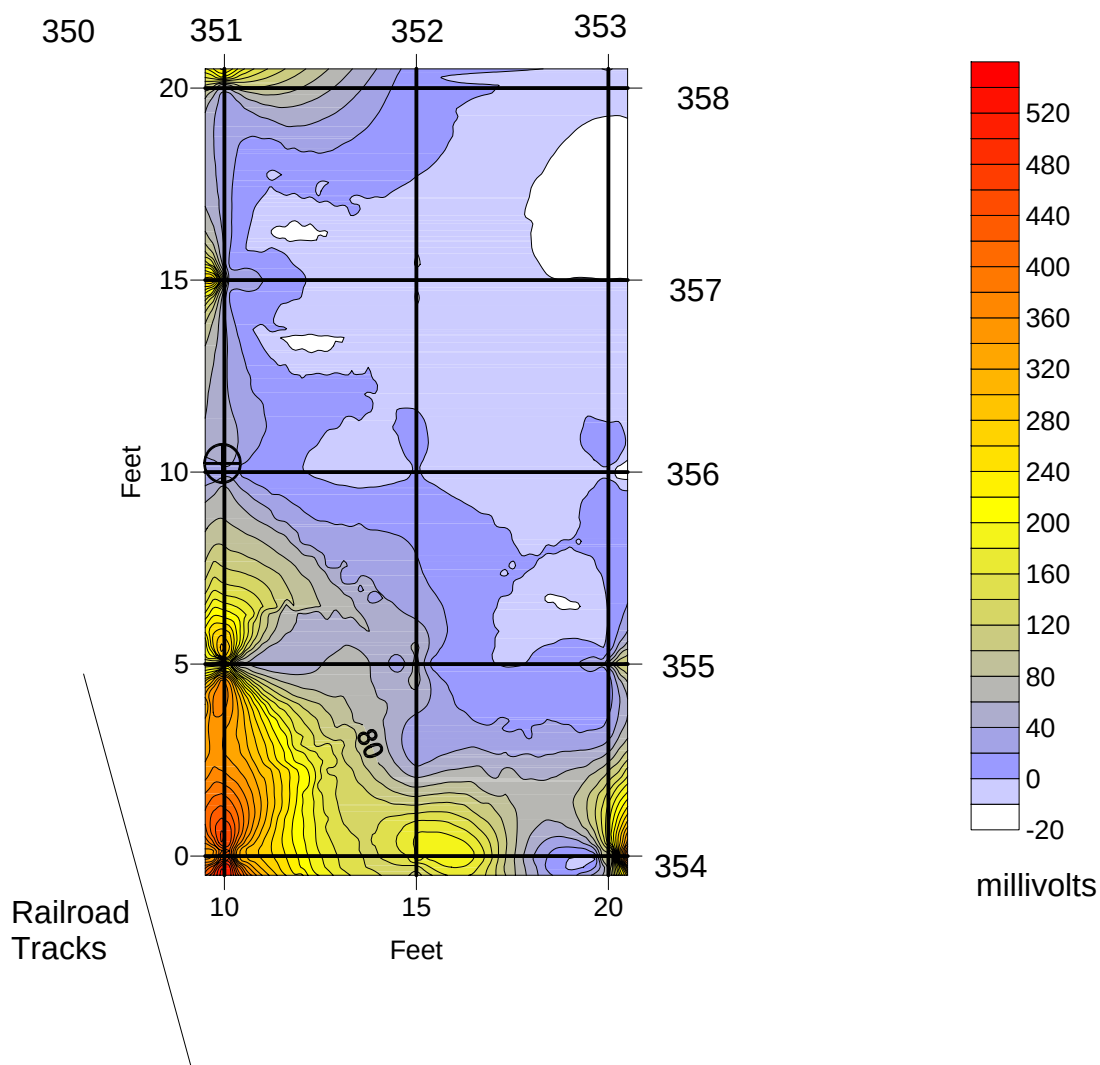
ARM Geophysics

SOIL BORING 3-SB-32

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-32
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

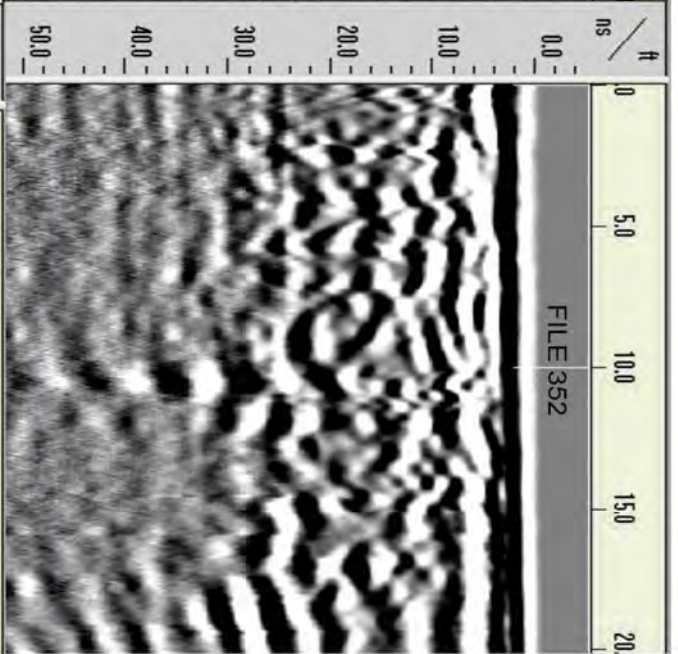
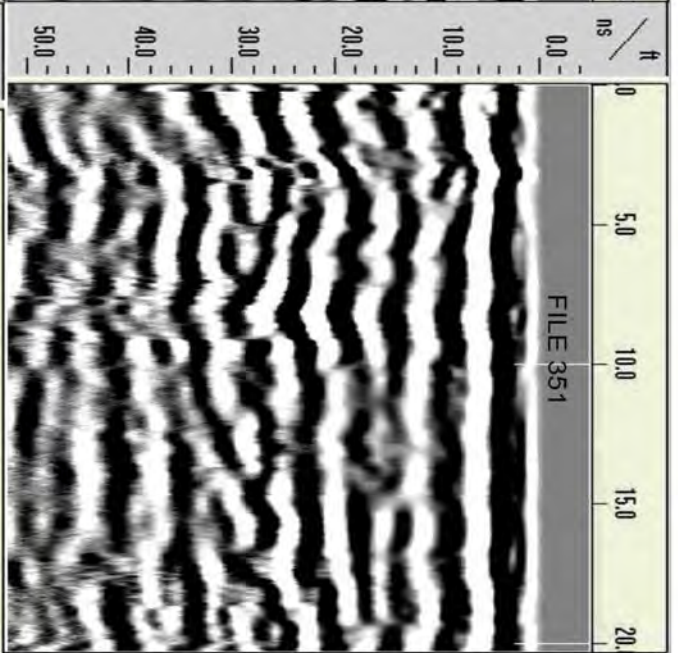
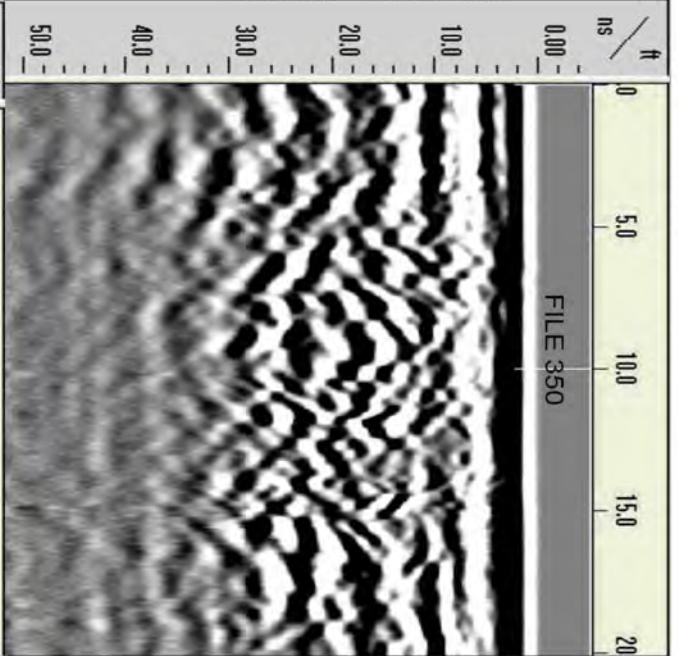
SOIL BORING 3-SB-32

SCALE: 1" = 5'

June 22, 2007

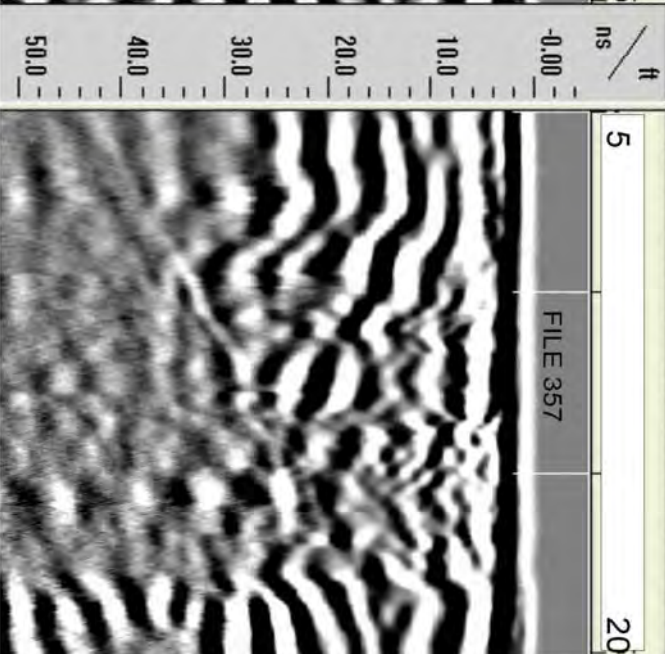
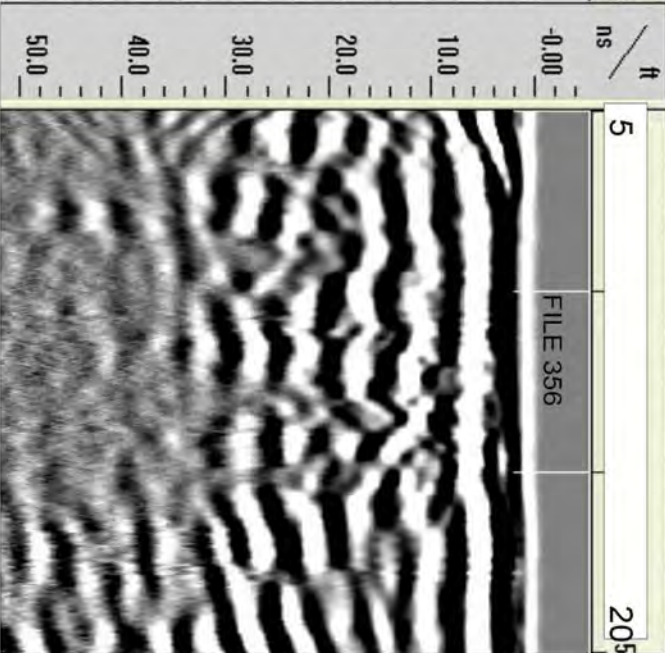
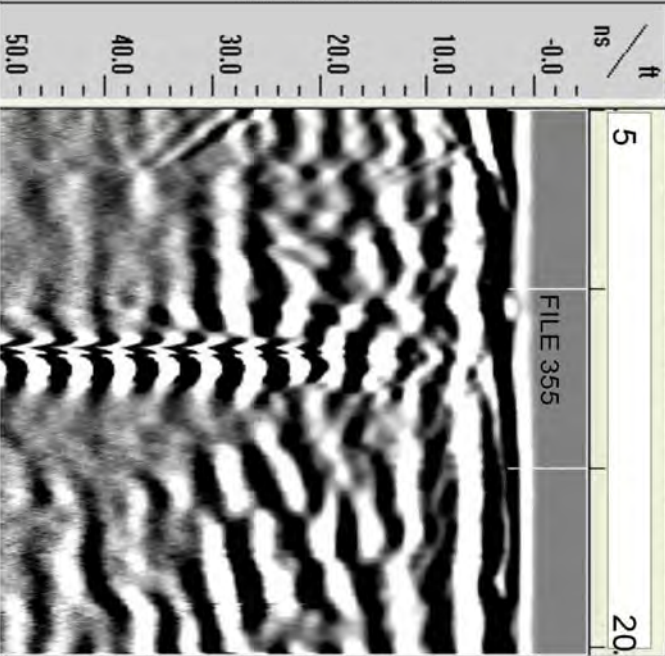
Soil Boring 3-SB-32

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-33

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-33 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features and interference such as the railroad tracks and concrete pads. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

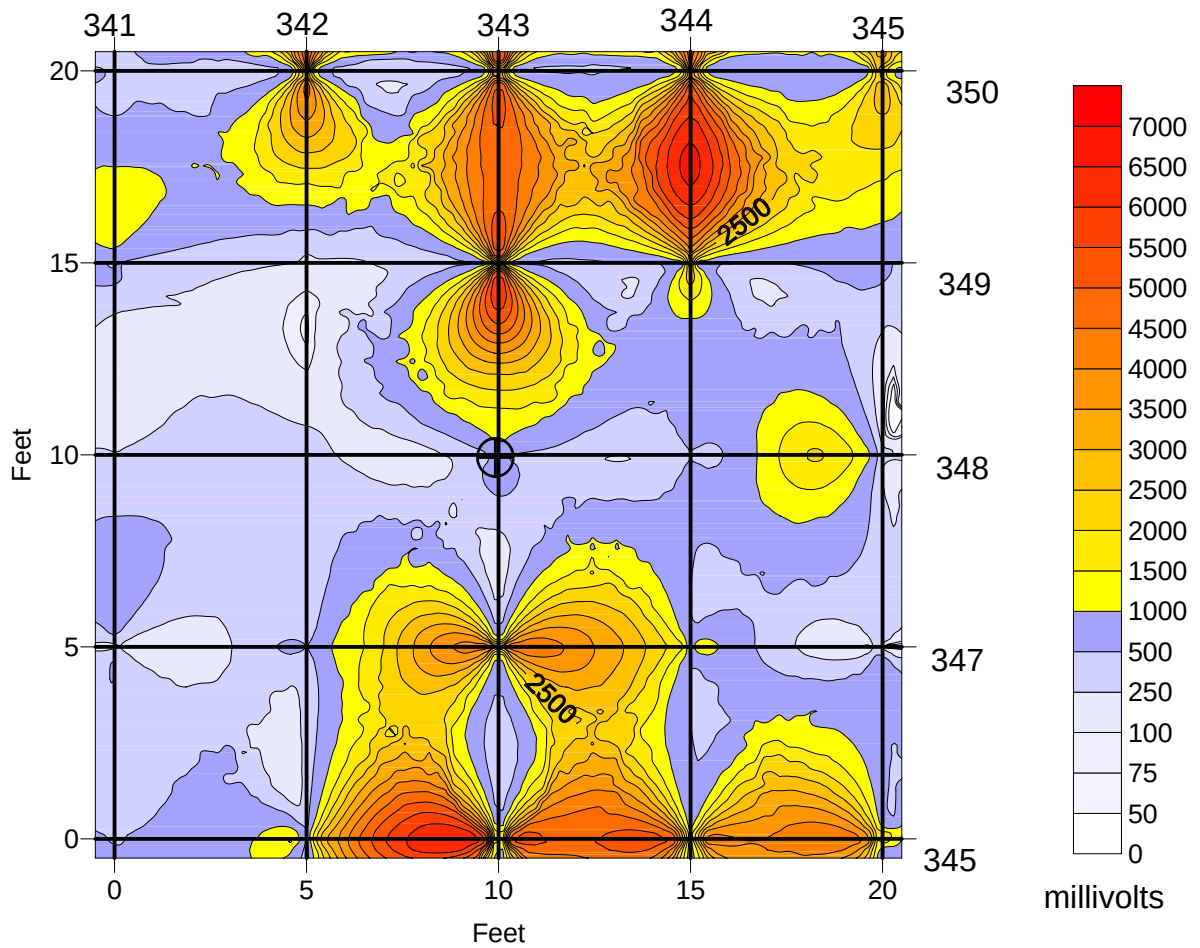
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-33
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

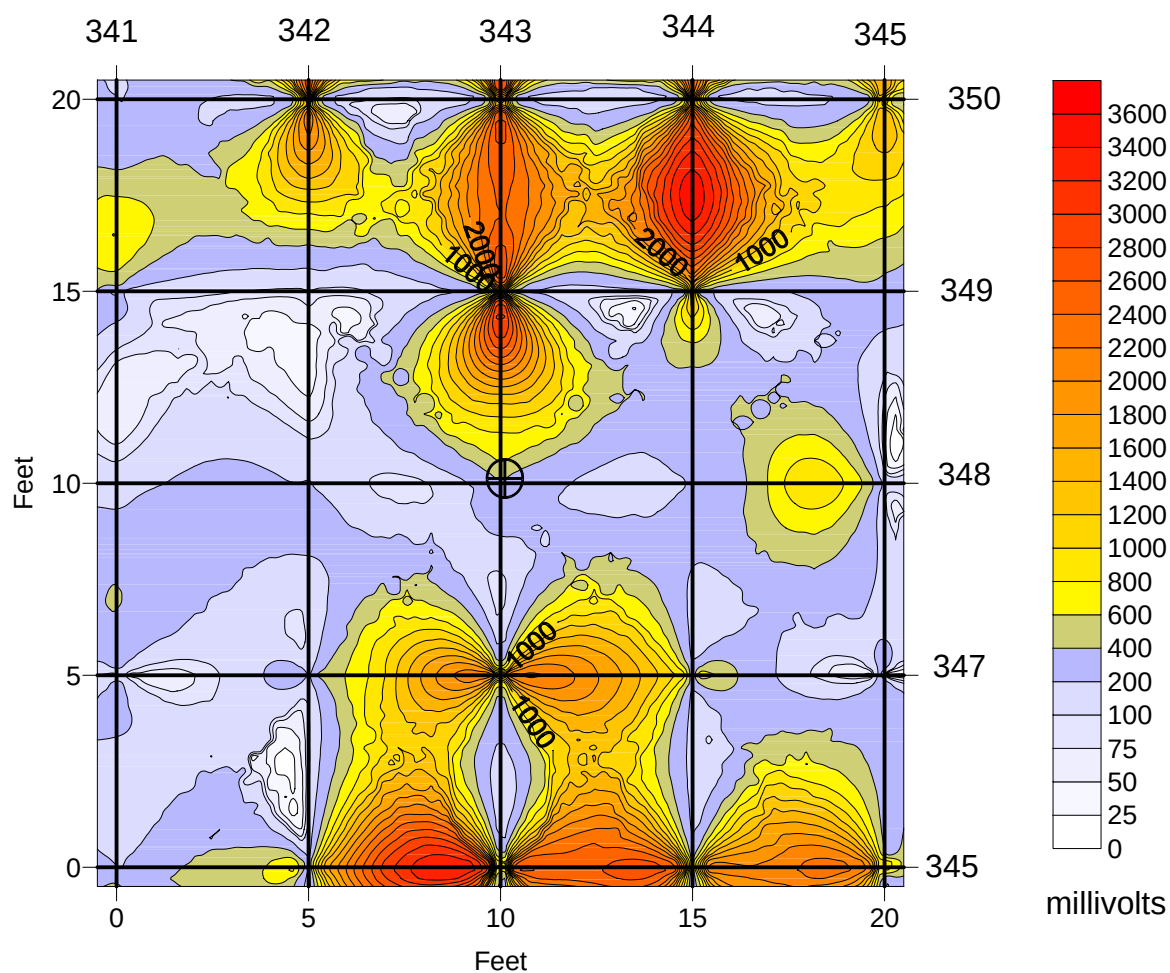
ARM Geophysics

SOIL BORING 3-SB-33

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

Soil Boring 3-SB-33
located at [10,10]

043 GPR line with file number at start of profile

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

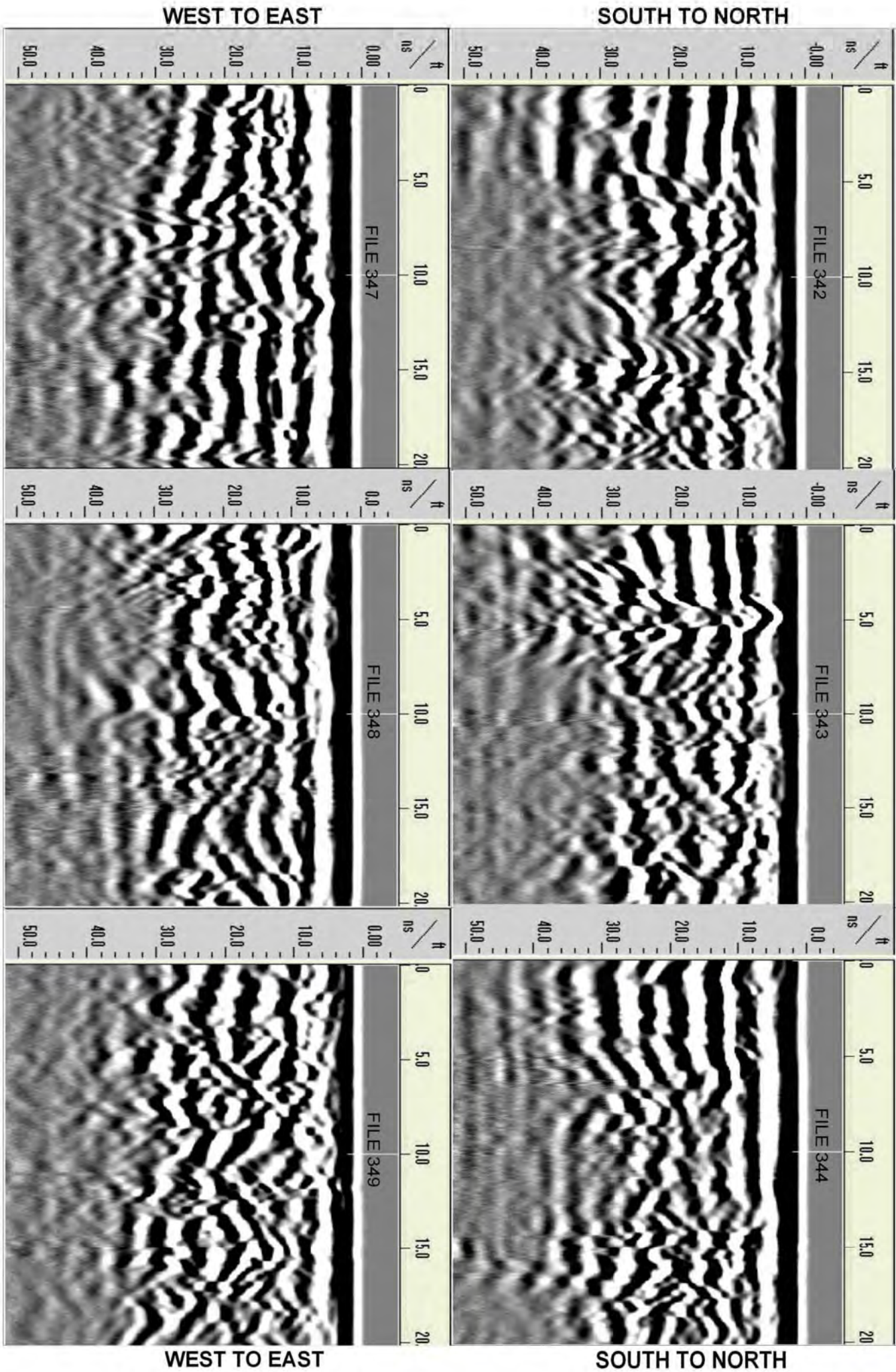
ARM Geophysics

SOIL BORING 3-SB-33

SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-33



June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-35

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-35 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are several anomalies that are attributed to surface features. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

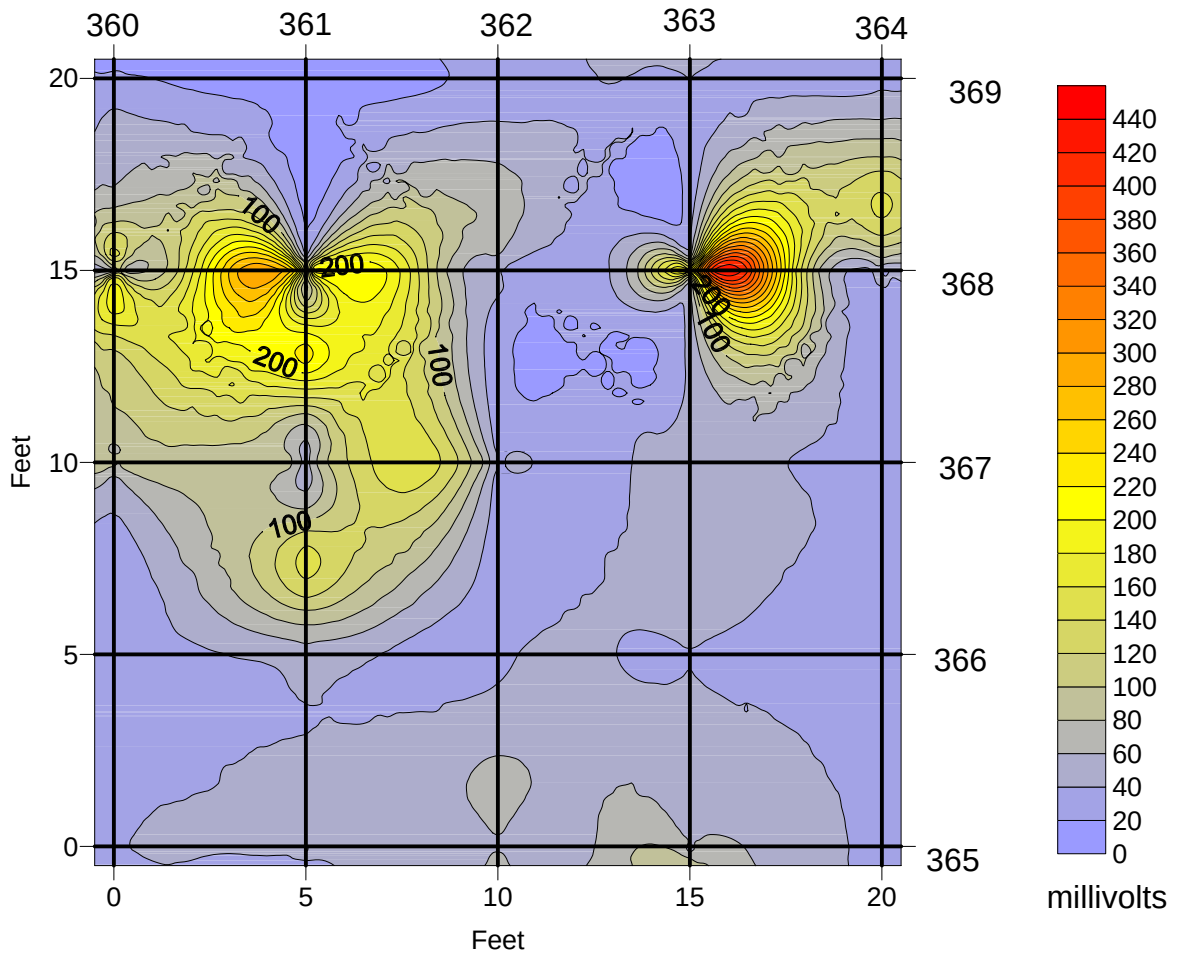
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-35
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

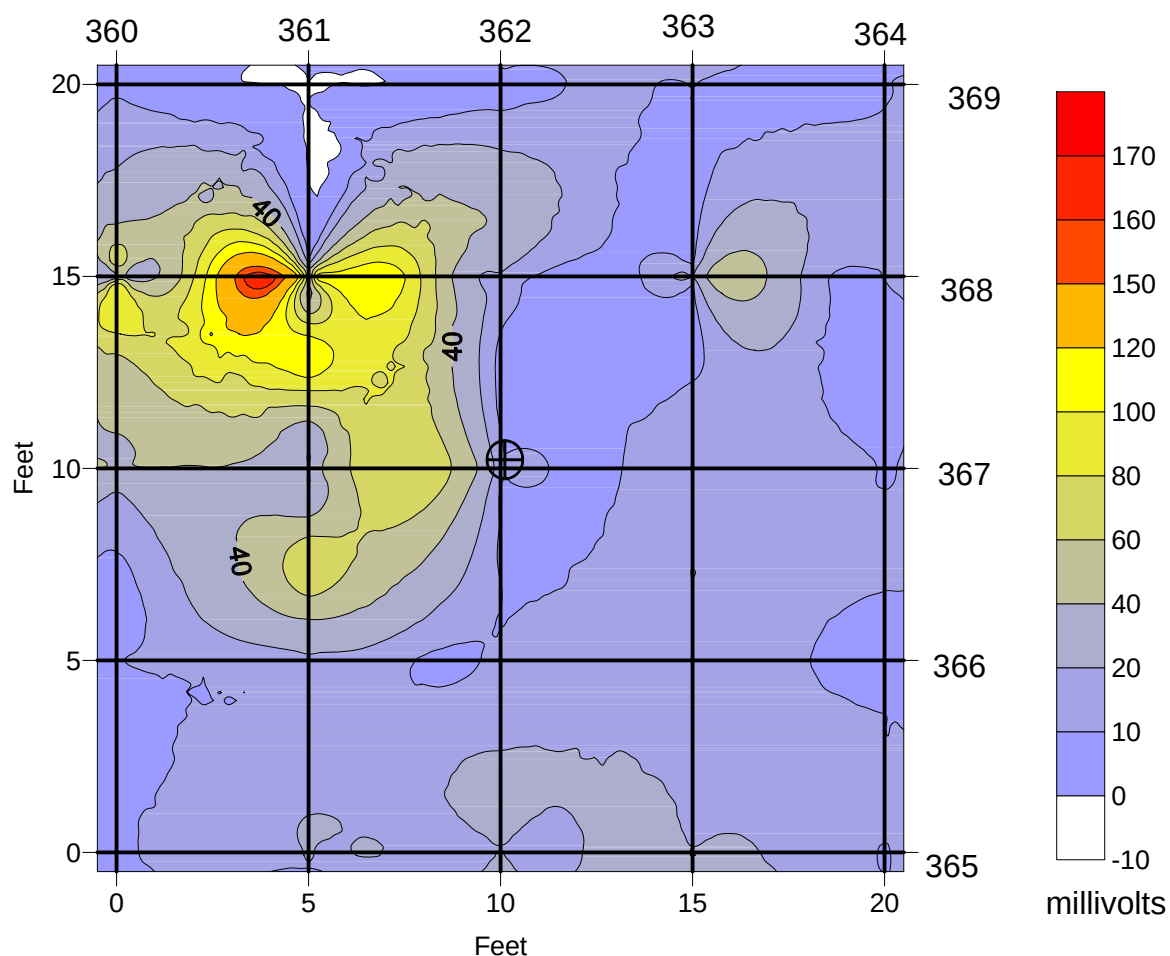
ARM Geophysics

SOIL BORING 3-SB-35

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-35
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

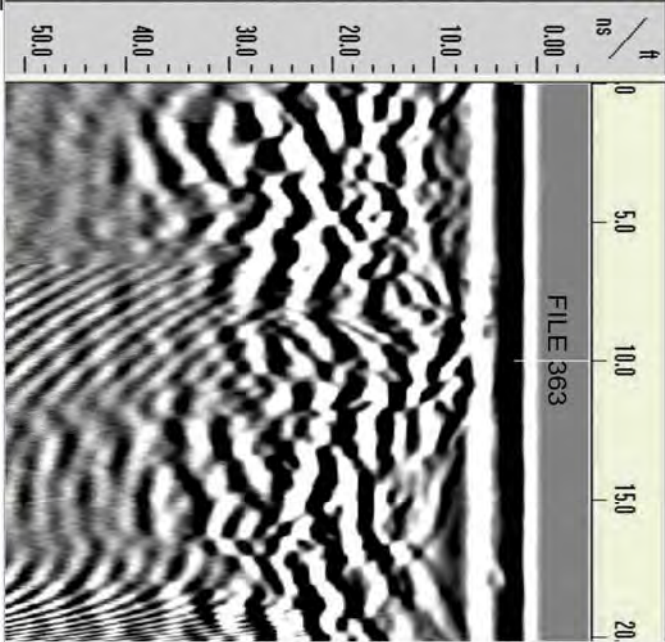
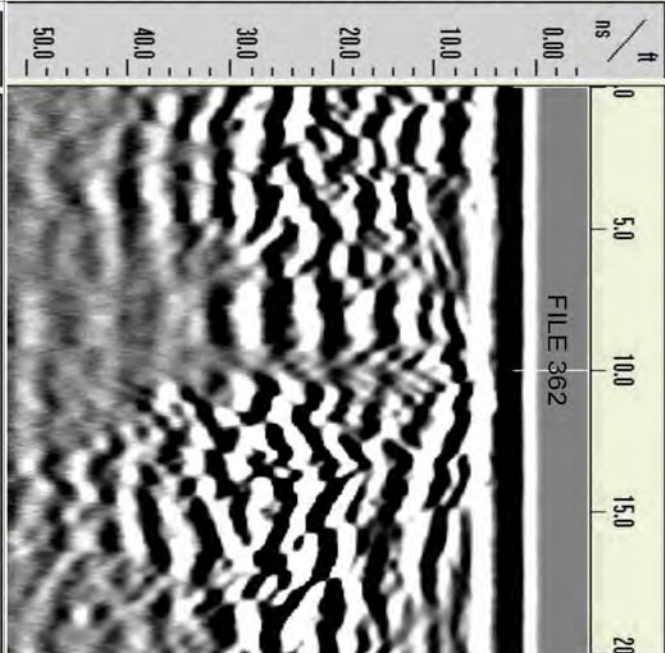
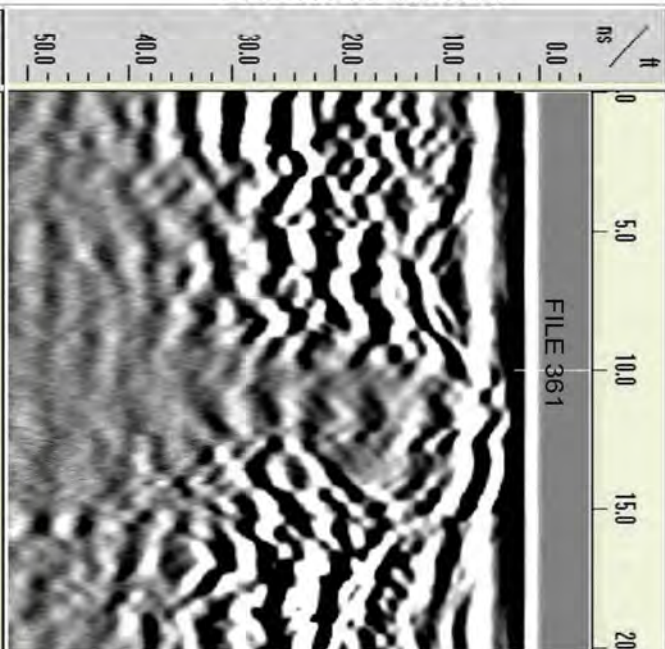
SOIL BORING 3-SB-35

SCALE: 1" = 5'

June 22, 2007

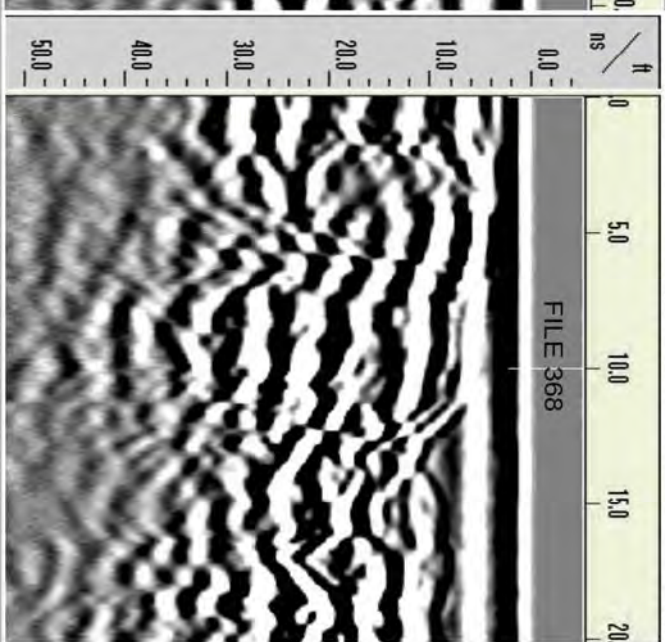
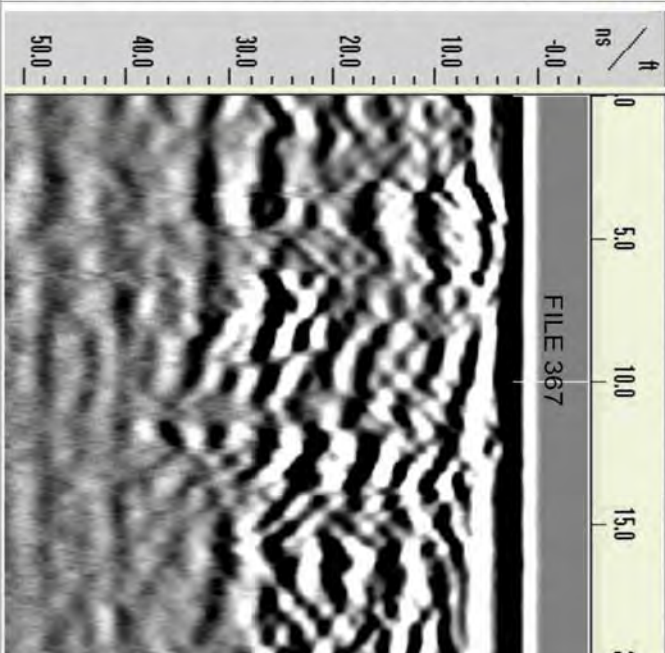
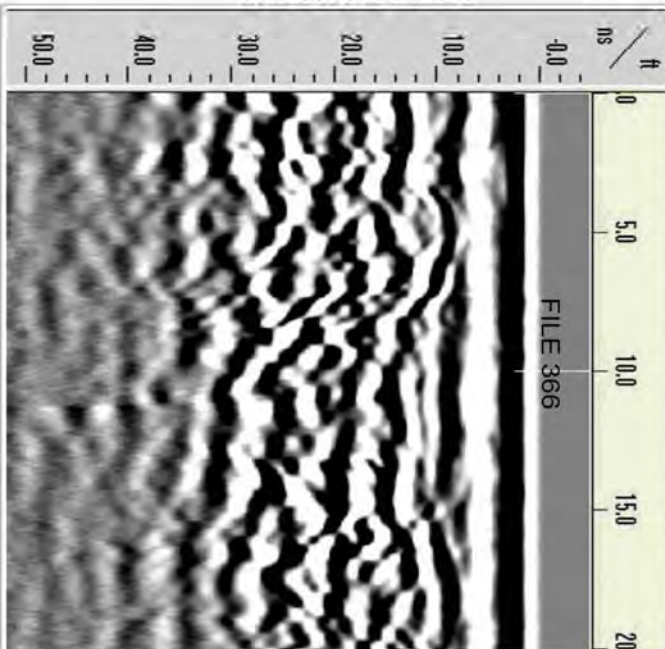
Soil Boring 3-SB-35

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-36

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-36 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are two anomalies that are attributed to surface features or interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

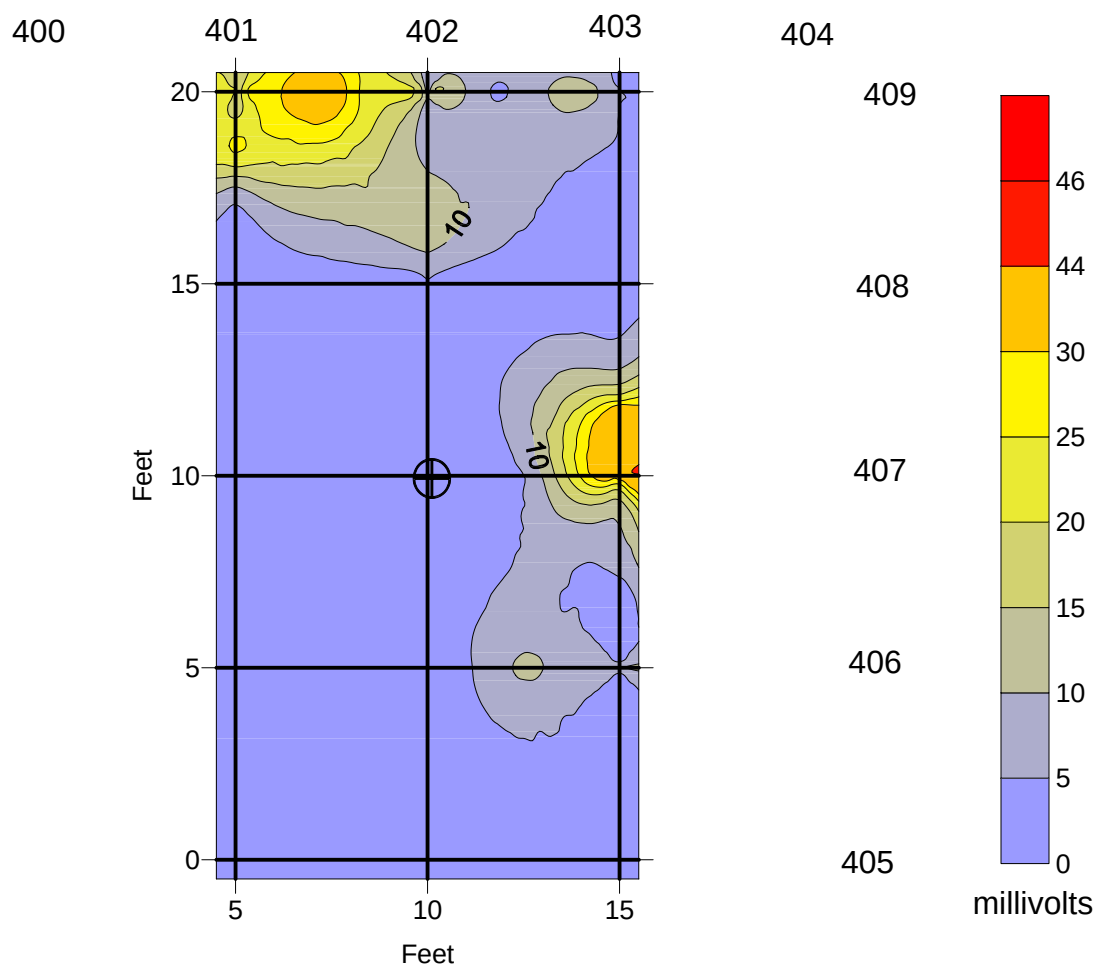
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 3-SB-36
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

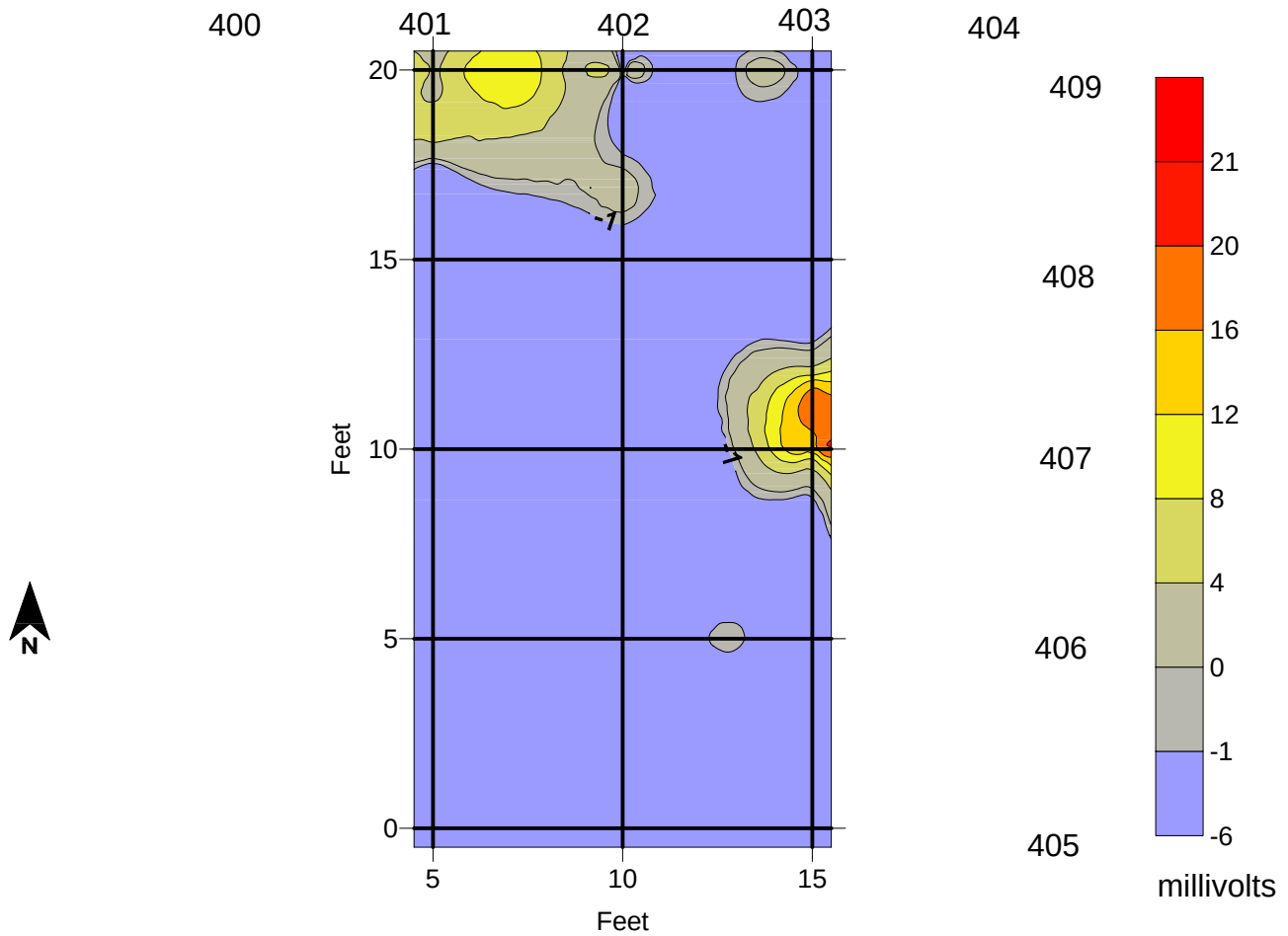
ARM Geophysics

SOIL BORING 3-SB-36

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-36
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

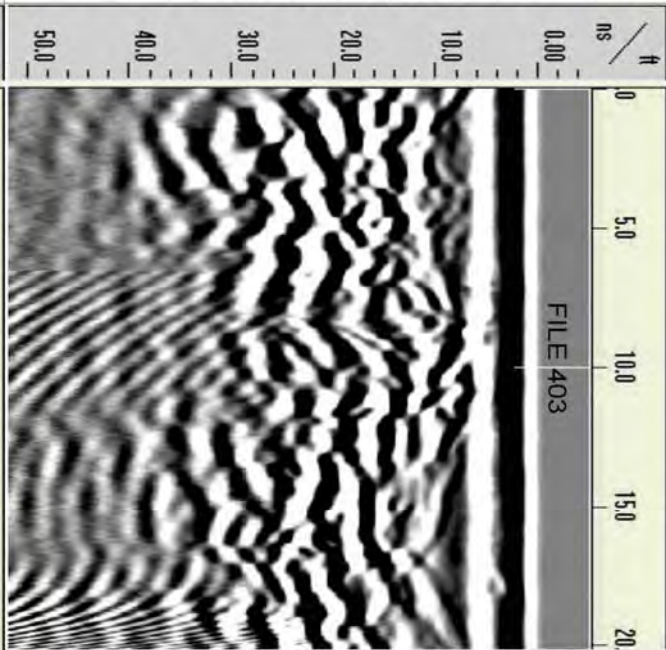
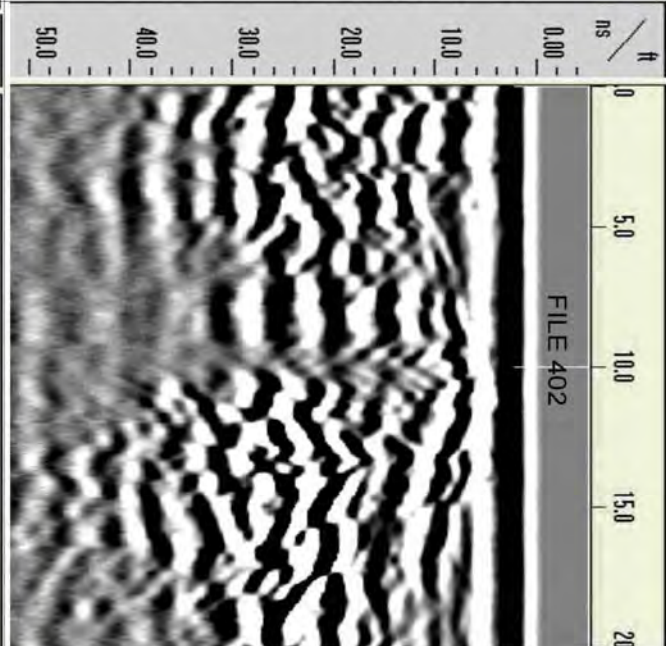
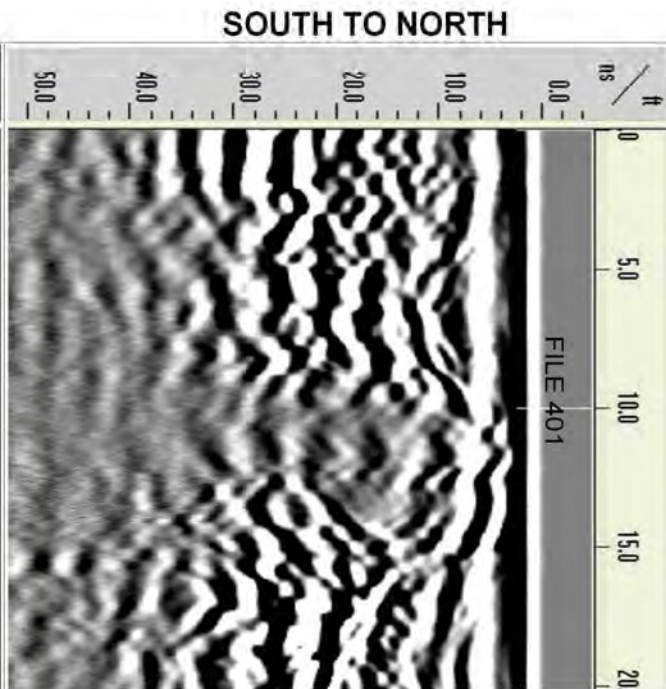
ARM Geophysics

SOIL BORING 3-SB-36

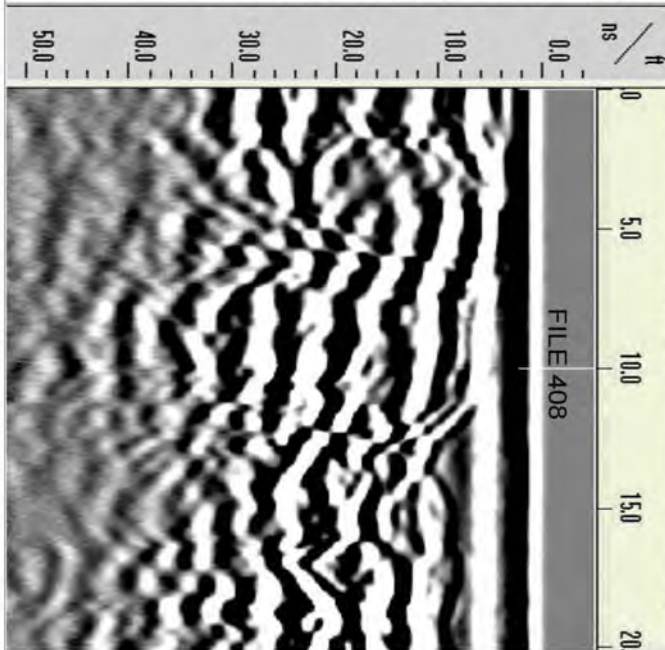
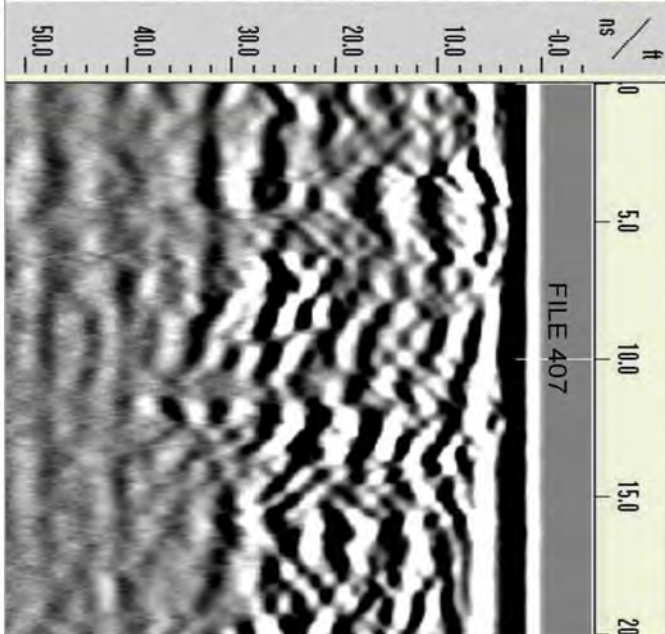
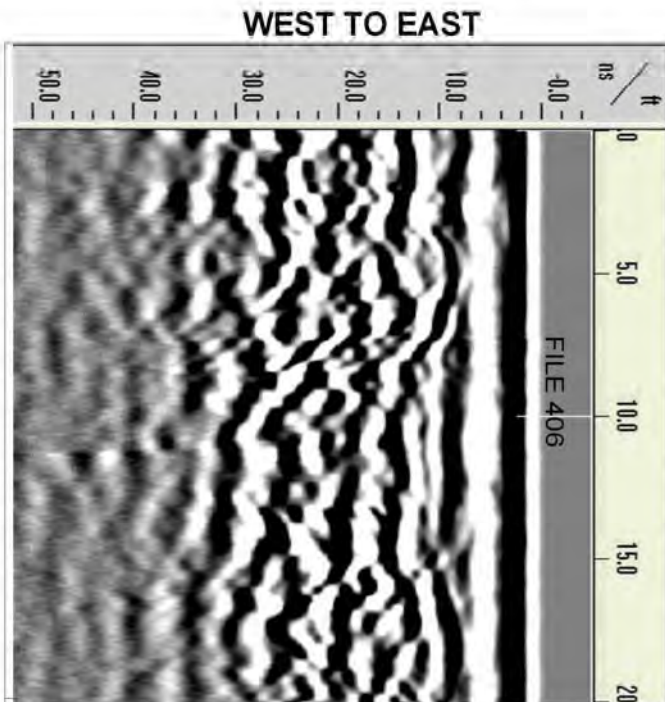
SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-36



SOUTH TO NORTH



WEST TO EAST

June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-37

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-37 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 15 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). The standard grid was not established due to the high grass on the western section of the grid. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there are anomalies that are attributed to surface features or interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow); however the western section of the survey grid has elevated EM readings.

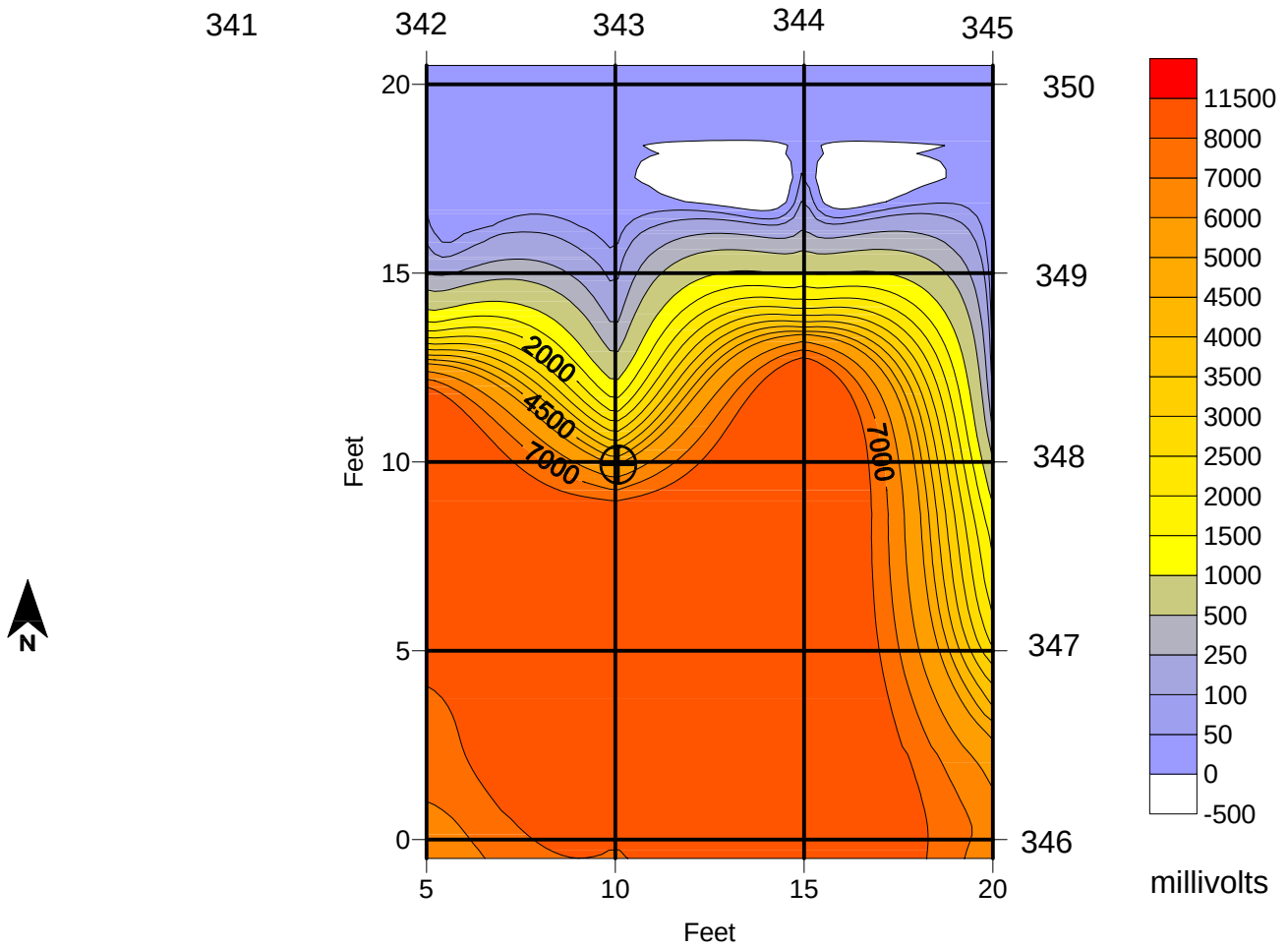
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of a very reflective layer within 10 nanoseconds of the ground surface. This may be miscellaneous debris or possibly an old concrete slab.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 3-SB-37
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

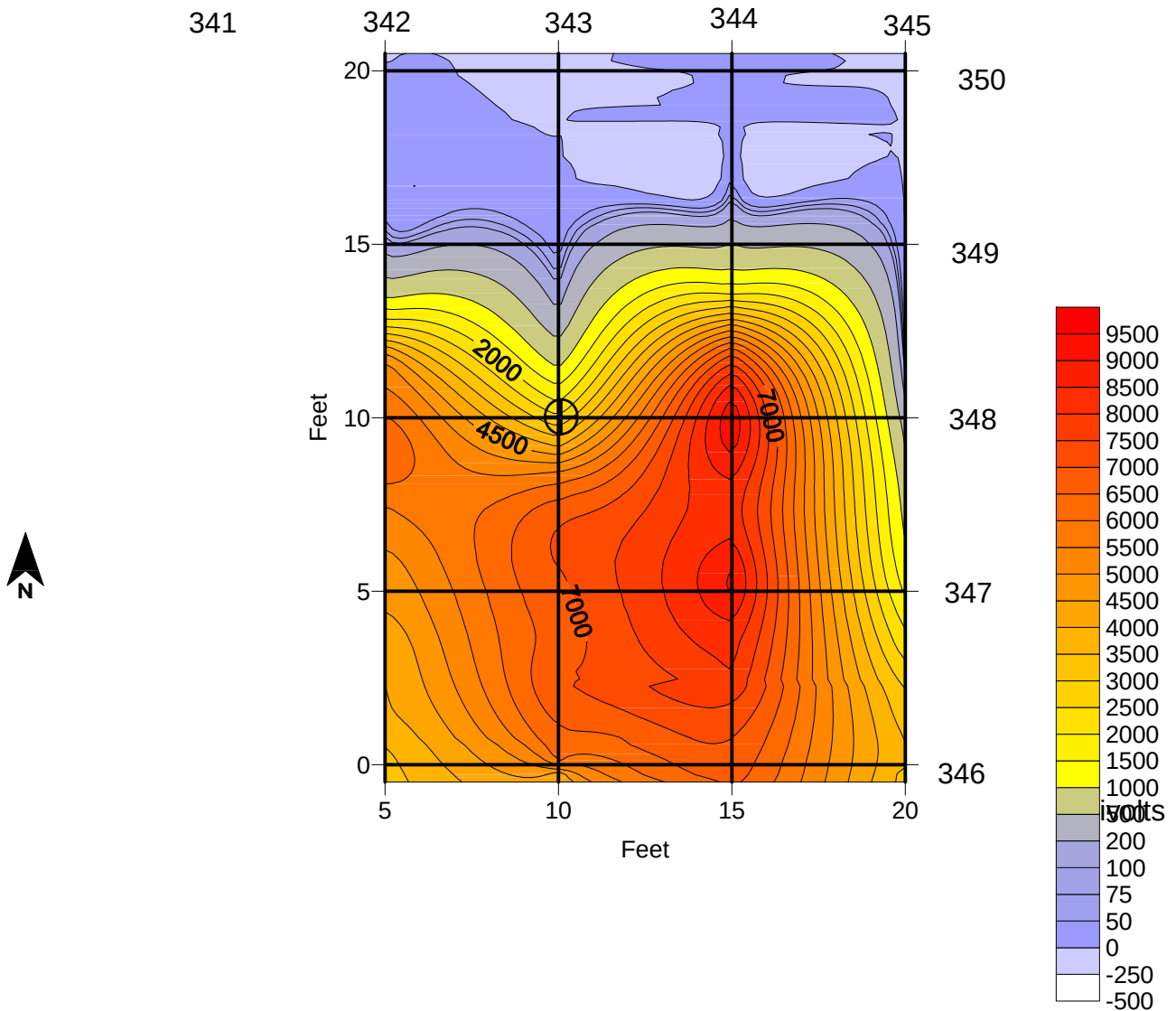
ARM Geophysics

SOIL BORING 3-SB-37

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 3-SB-37
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

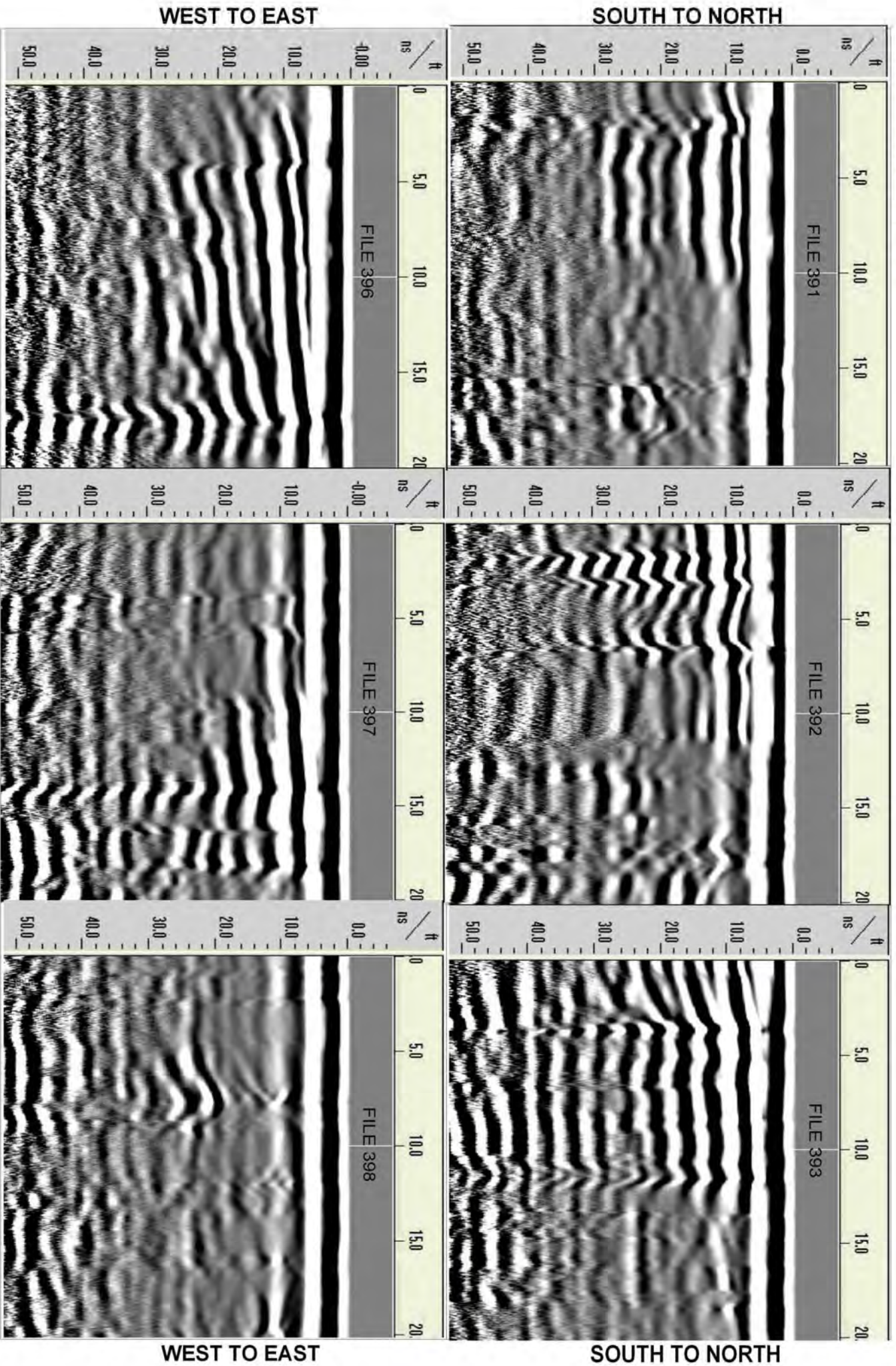
ARM Geophysics

SOIL BORING 3-SB-37

SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-37



June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-38

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-38 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is limited interference in the data. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

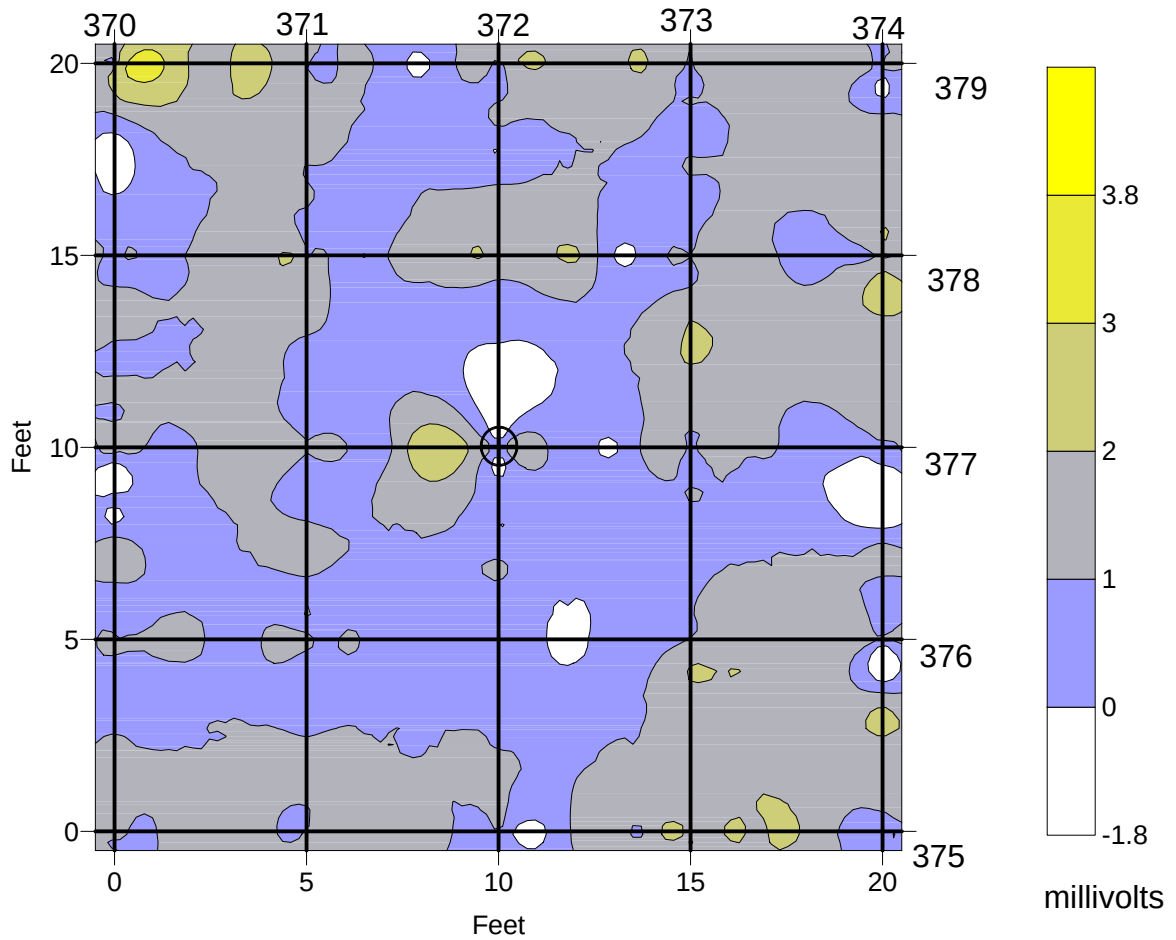
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-38
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

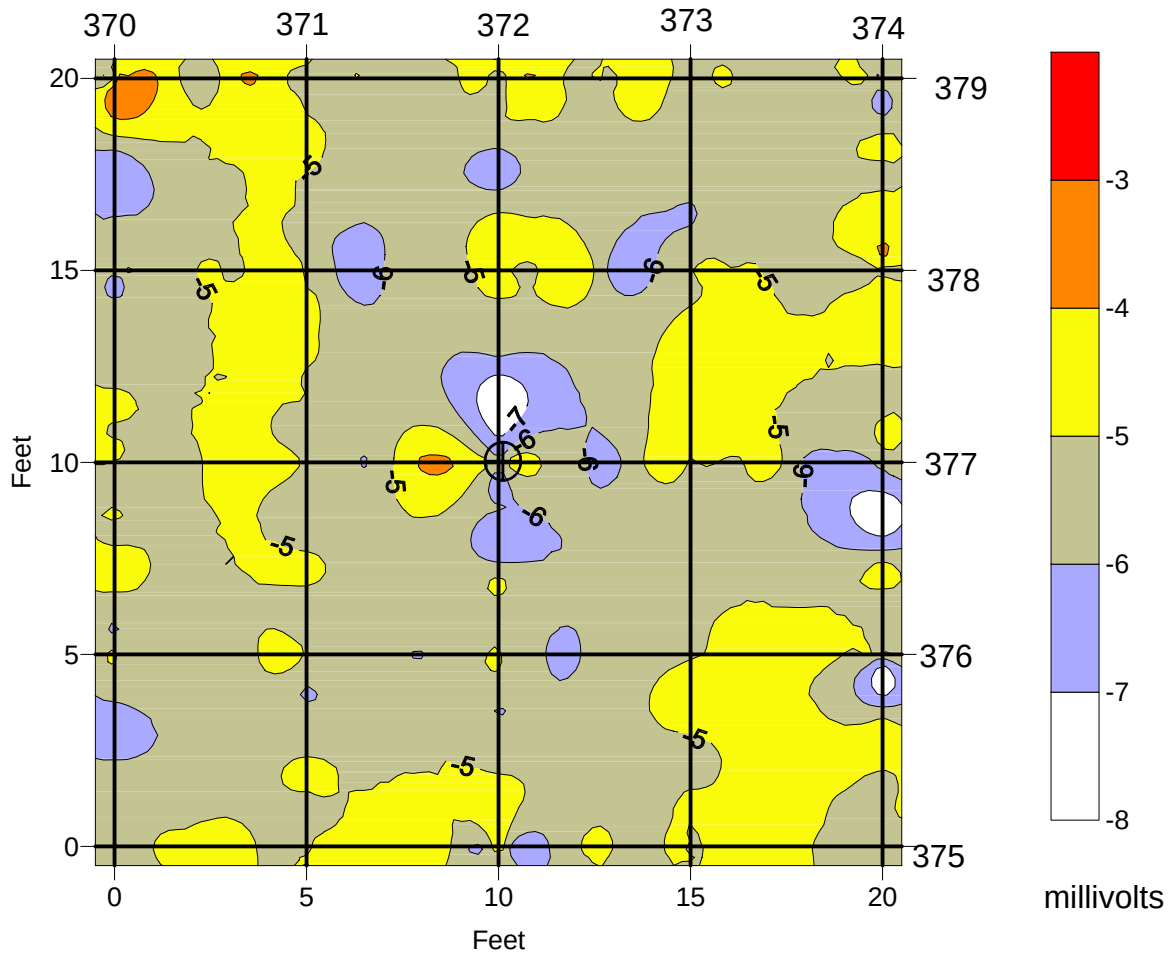
ARM Geophysics

SOIL BORING 3-SB-38

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 3-SB-38
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

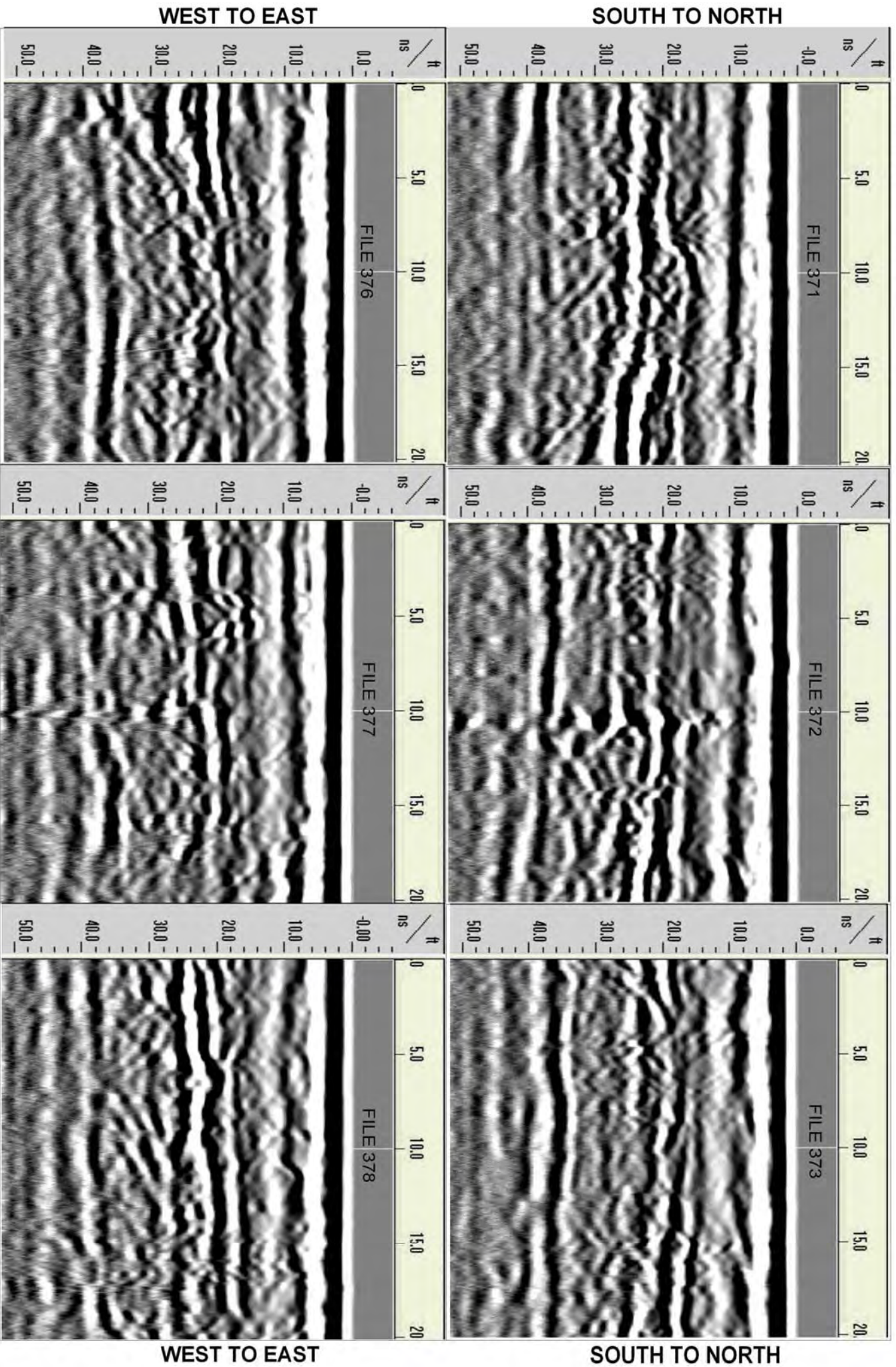
ARM Geophysics

SOIL BORING 3-SB-38

SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-38



June 26, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 3-SB-39

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 3-SB-39 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is limited interference in the data. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

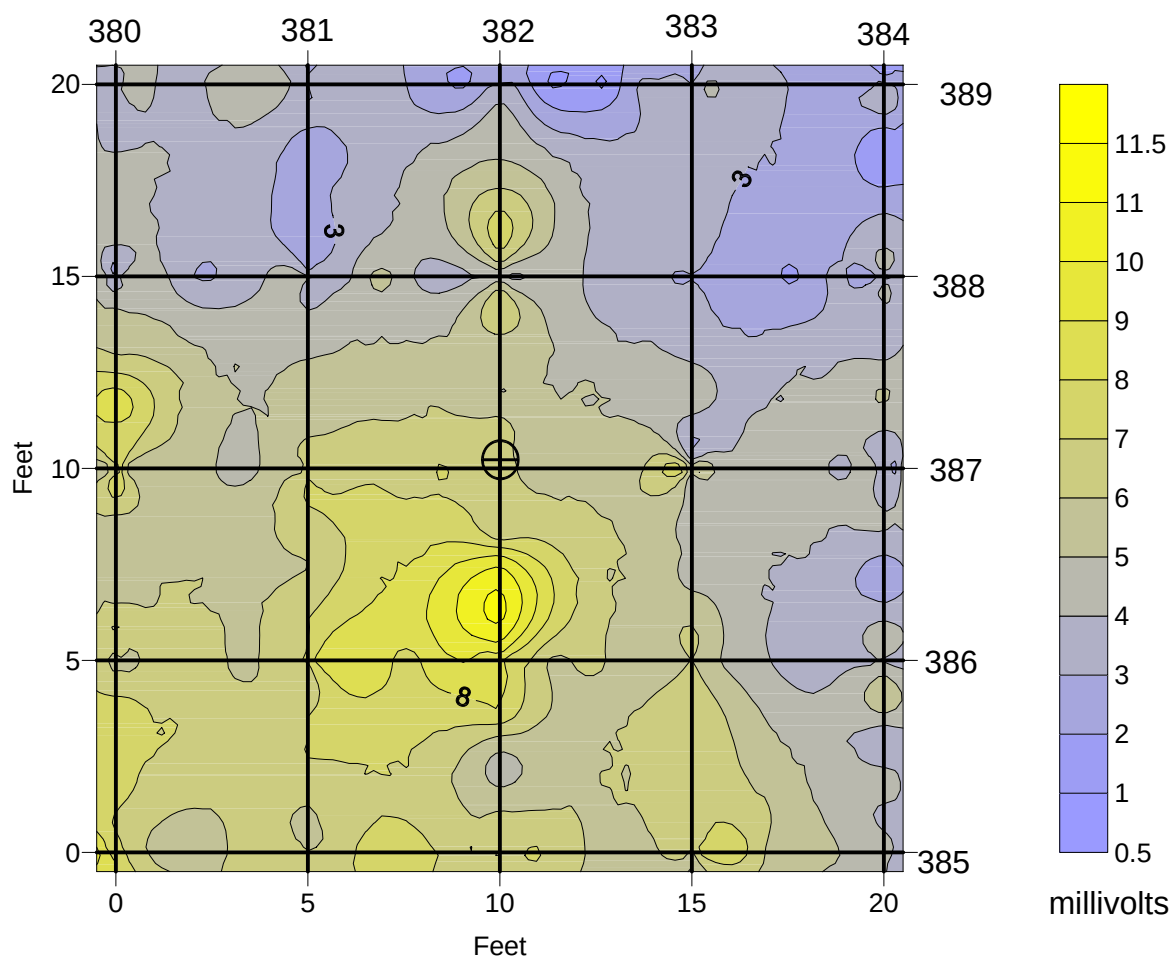
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 3-SB-39
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

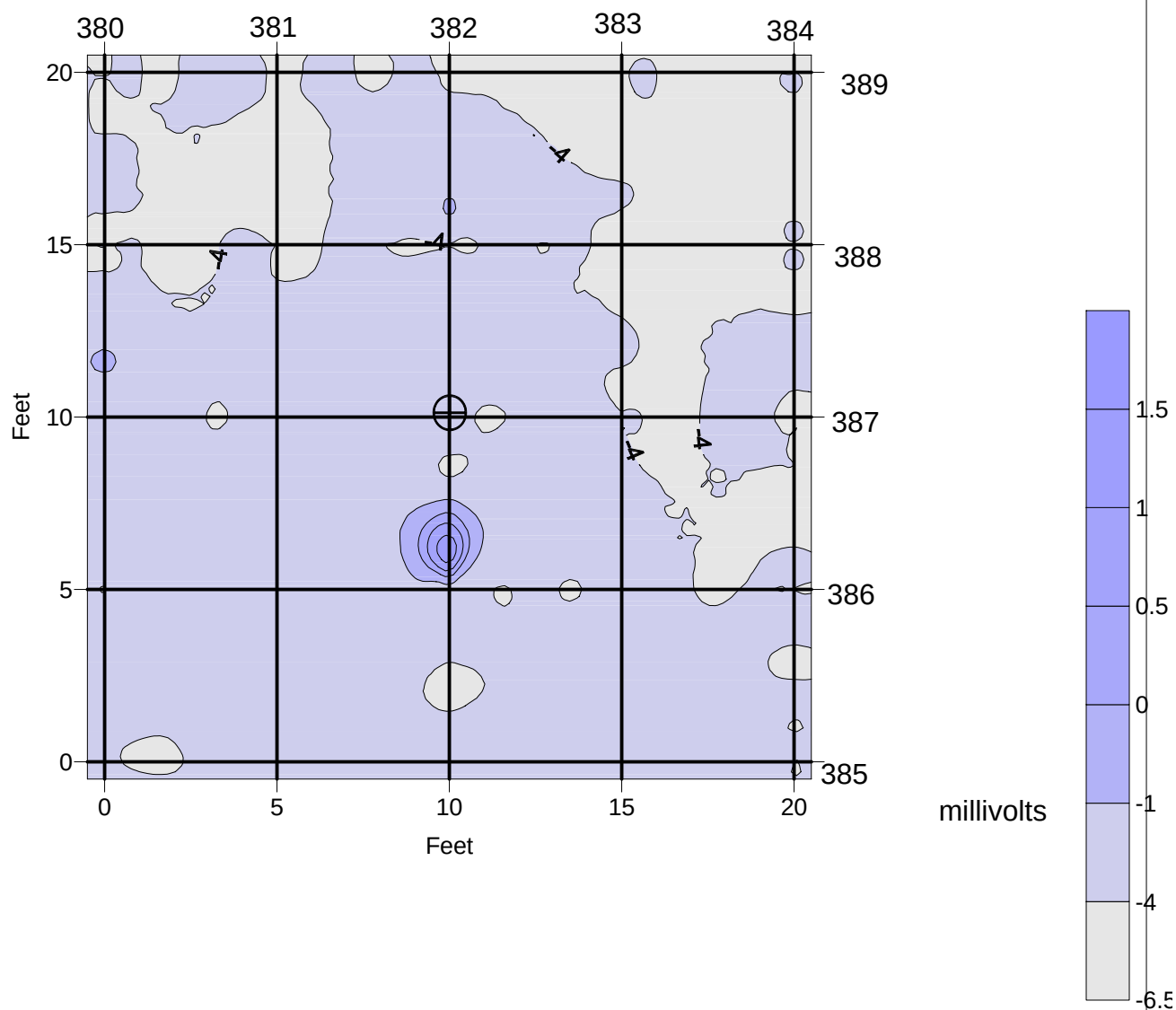
ARM Geophysics

SOIL BORING 3-SB-39

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 3-SB-39 located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

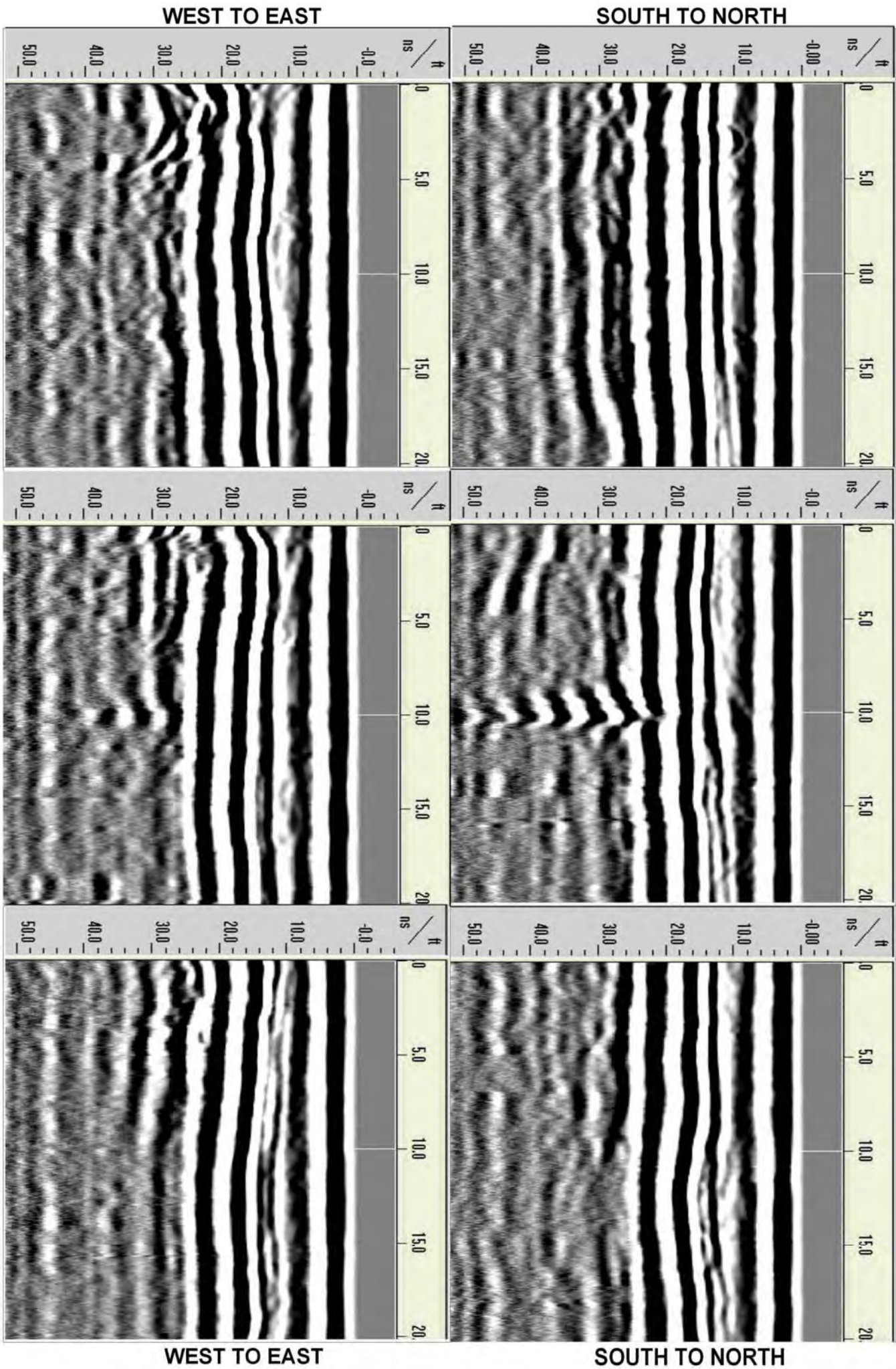
ARM Geophysics

SOIL BORING 3-SB-39

SCALE: 1" = 5'

June 22, 2007

Soil Boring 3-SB-39



June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-31

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-31 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is limited interference in the data; however, most of the data is the negative range. This may be due to the composition of the fill material in this area. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

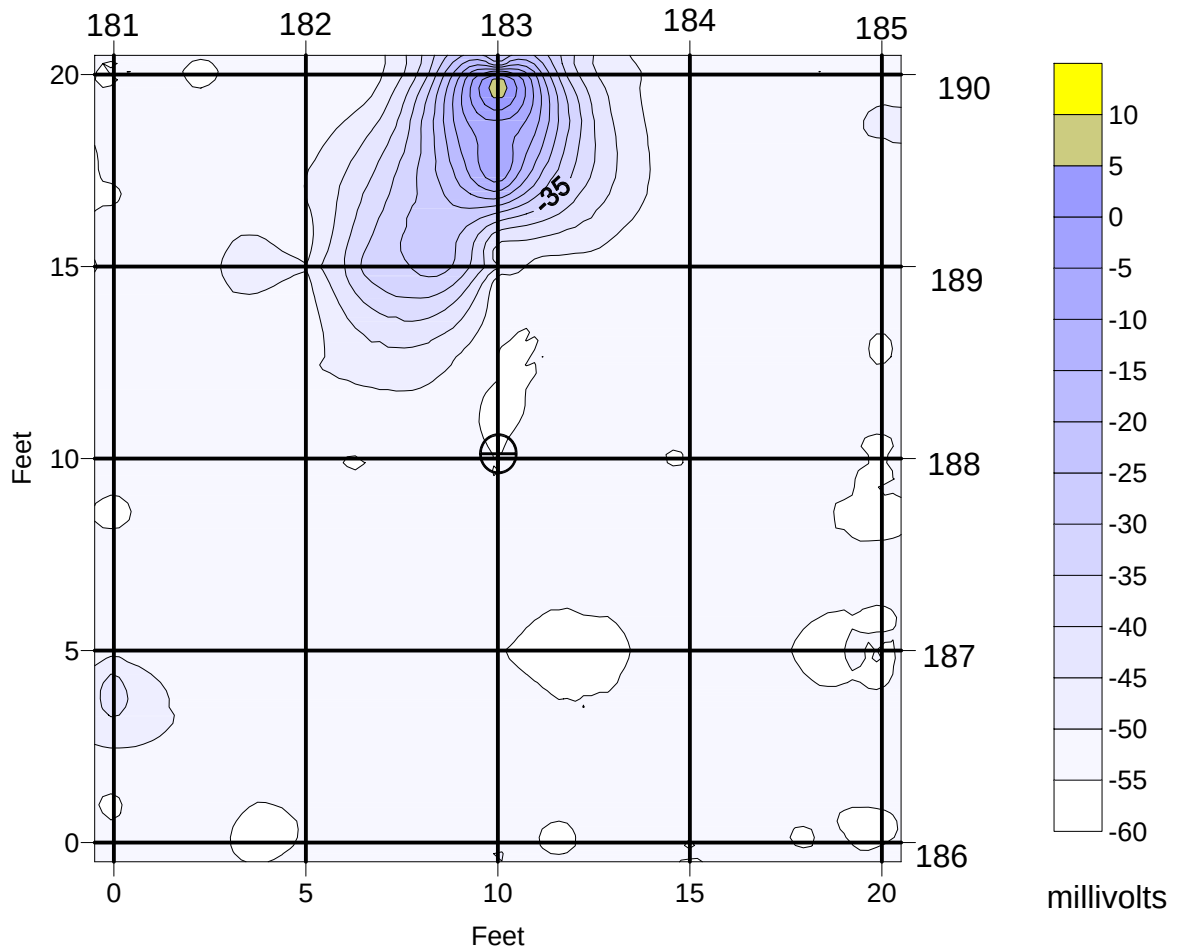
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-41
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

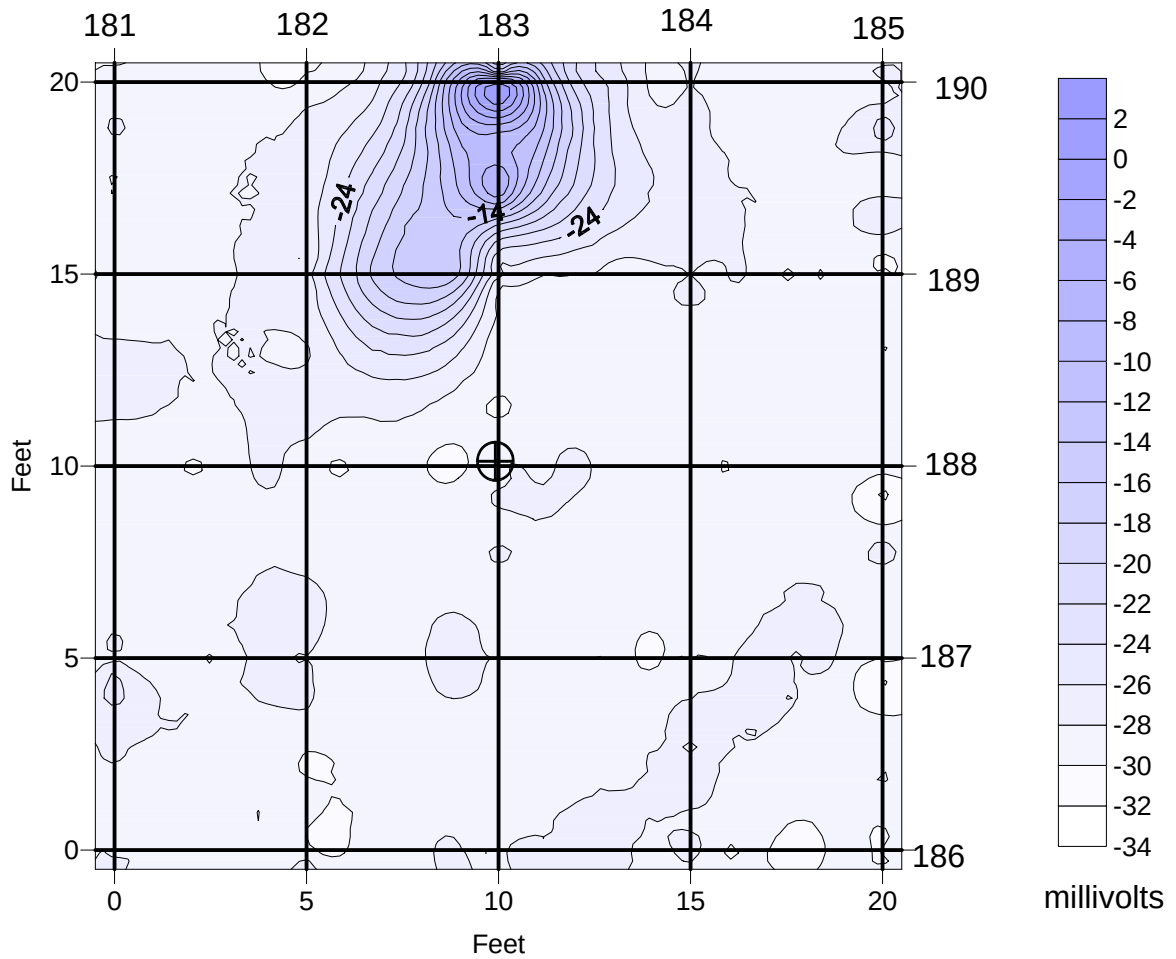
ARM Geophysics

SOIL BORING 4-SB-31

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-41
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

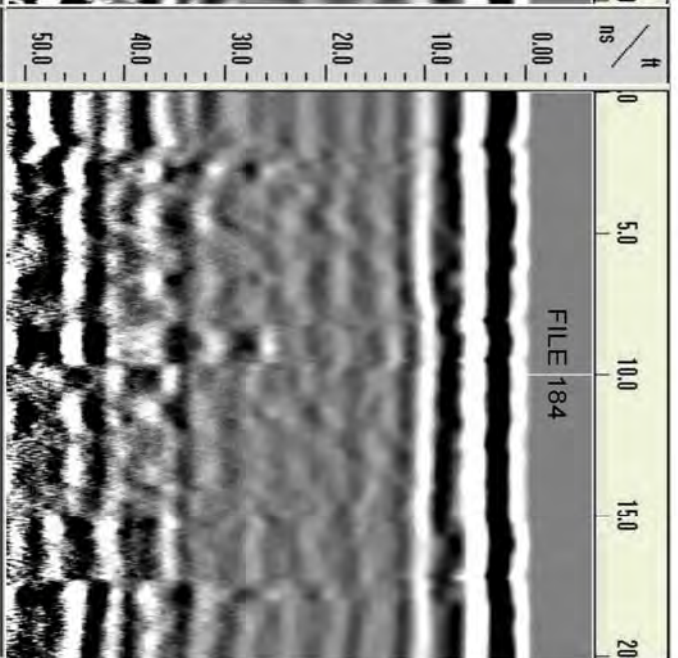
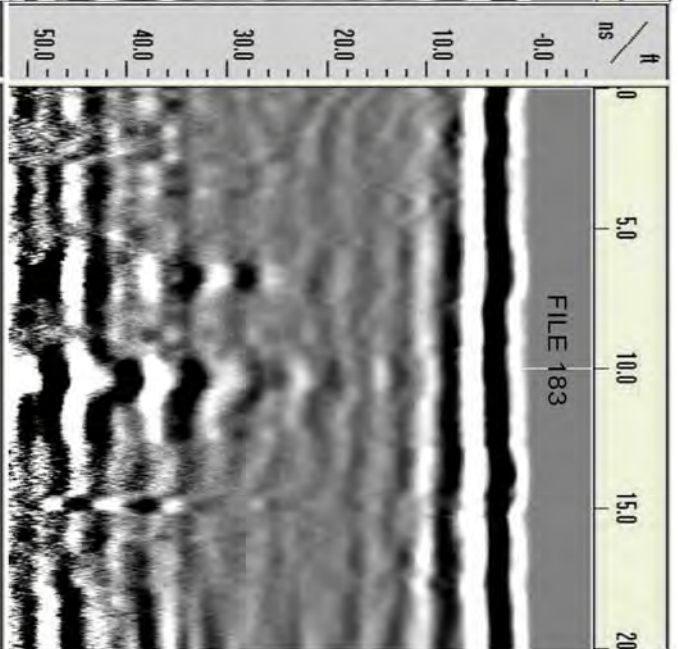
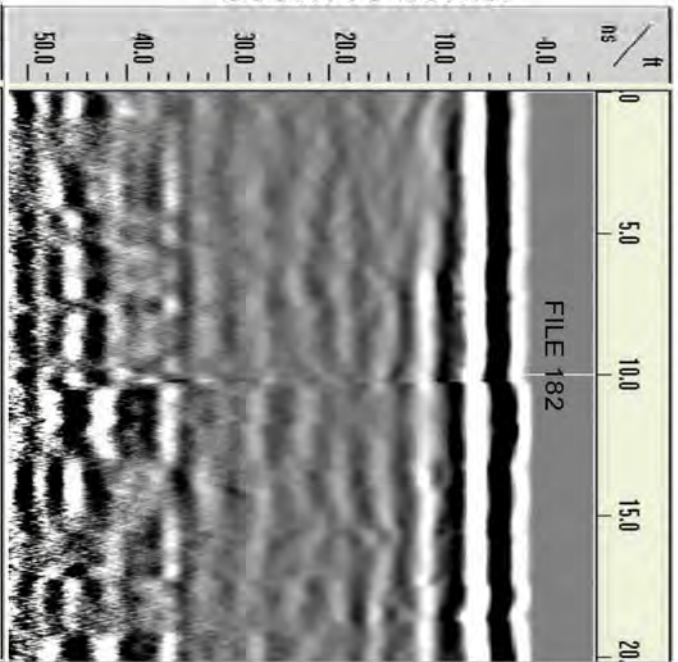
SOIL BORING 4-SB-31

SCALE: 1" = 5'

June 22, 2007

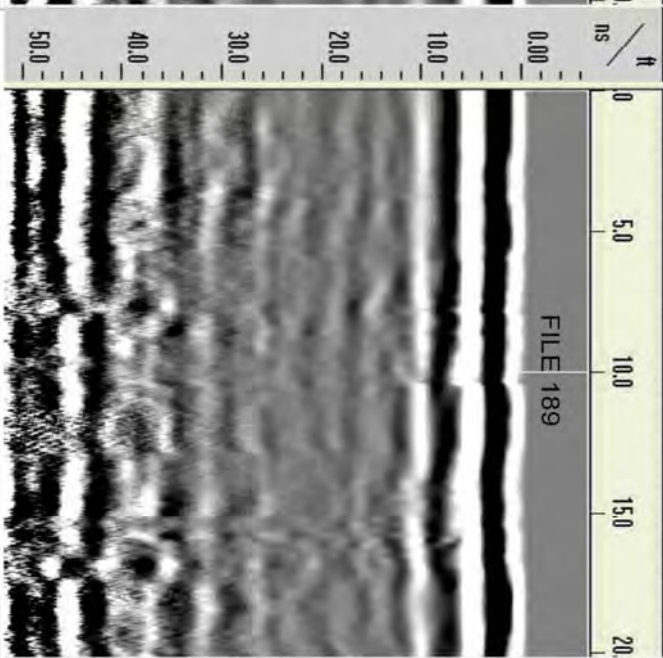
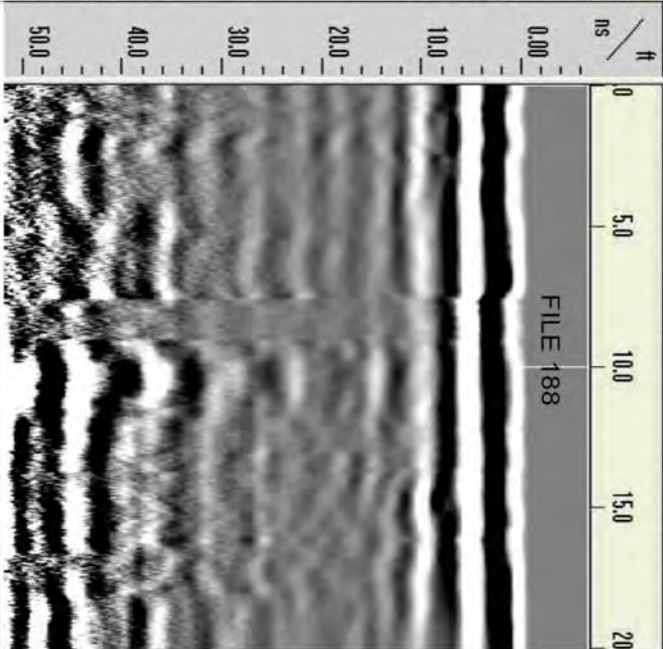
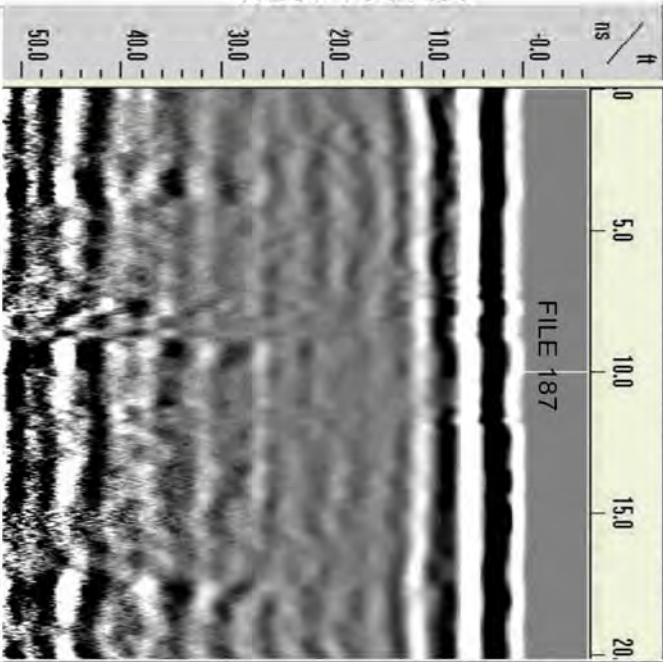
Soil Boring 4-SB-31

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-32

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-32 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

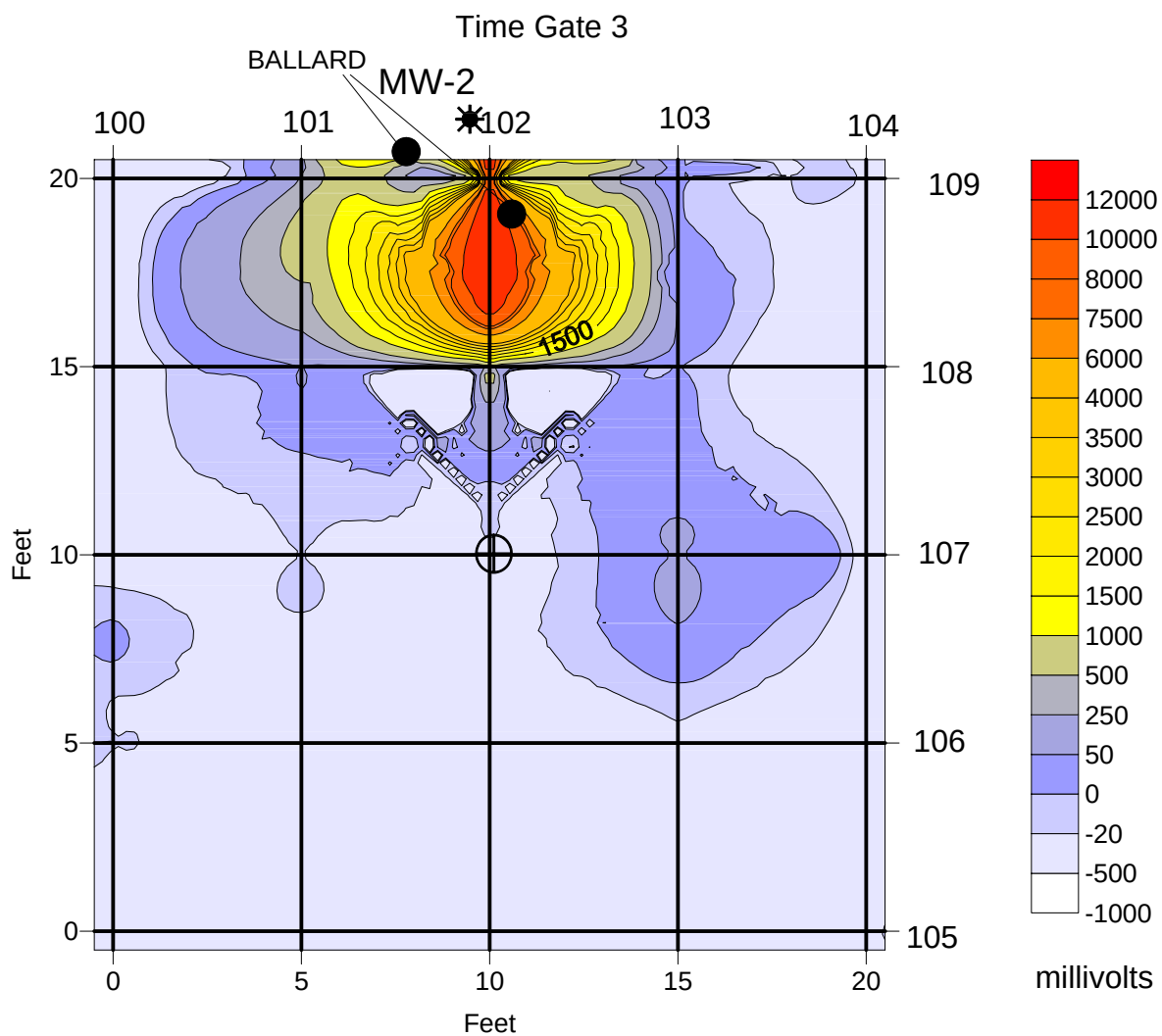
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there has been interference in the data from the monitoring well and ballards. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-32
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

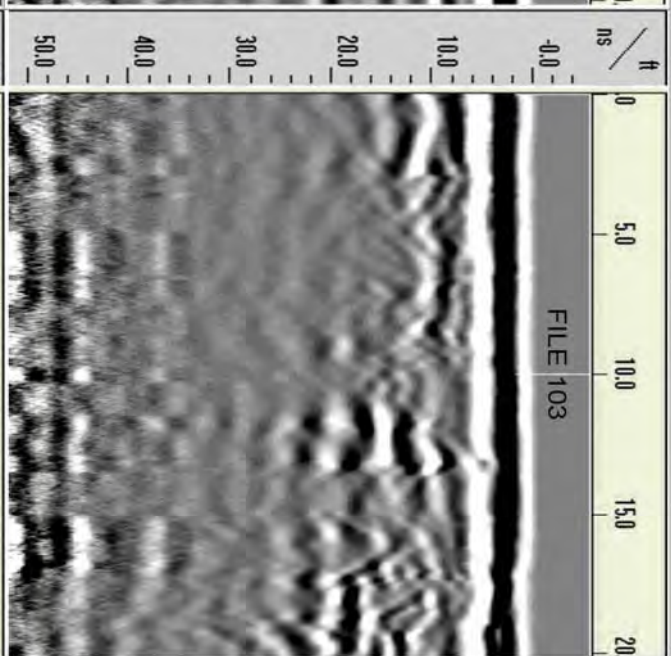
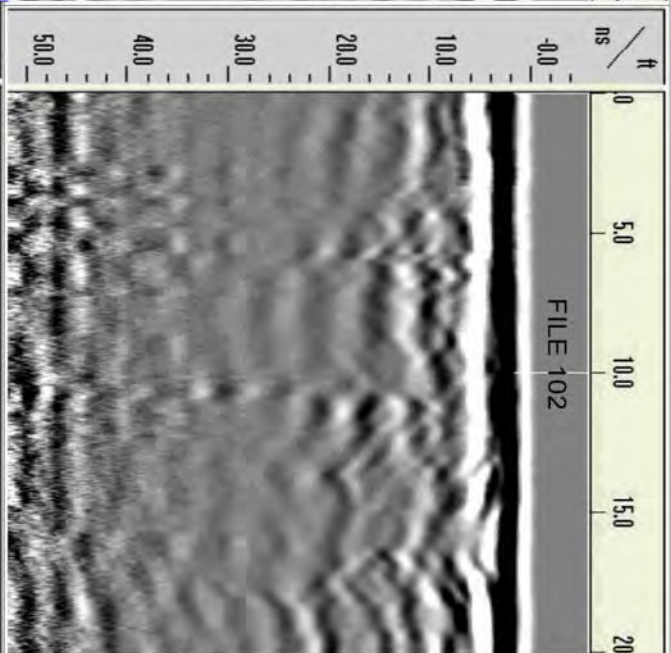
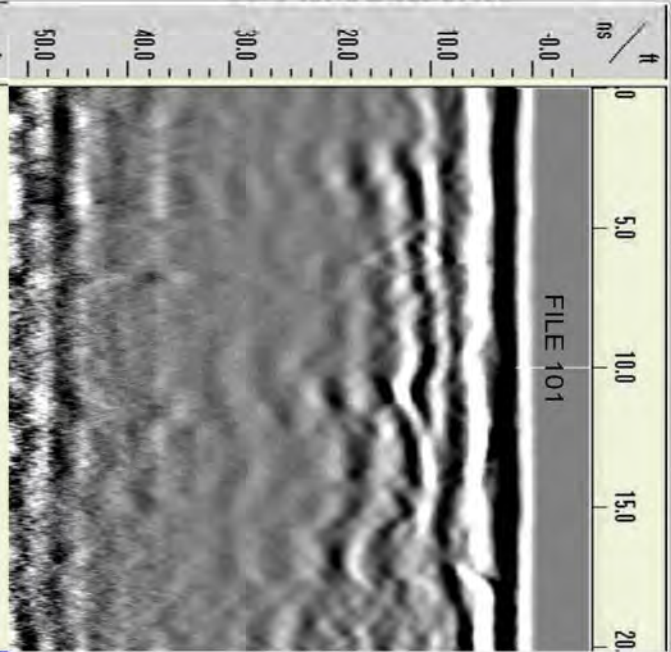
SOIL BORING 4-SB-32

SCALE: 1" = 5'

June 22, 2007

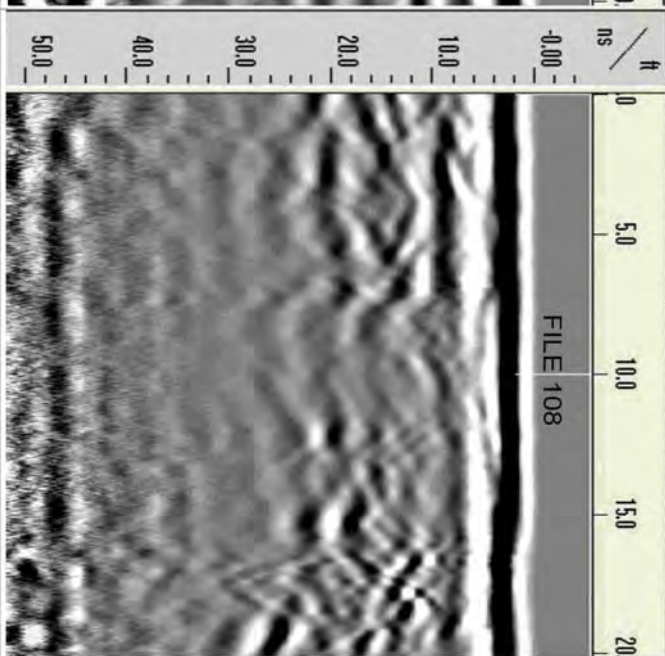
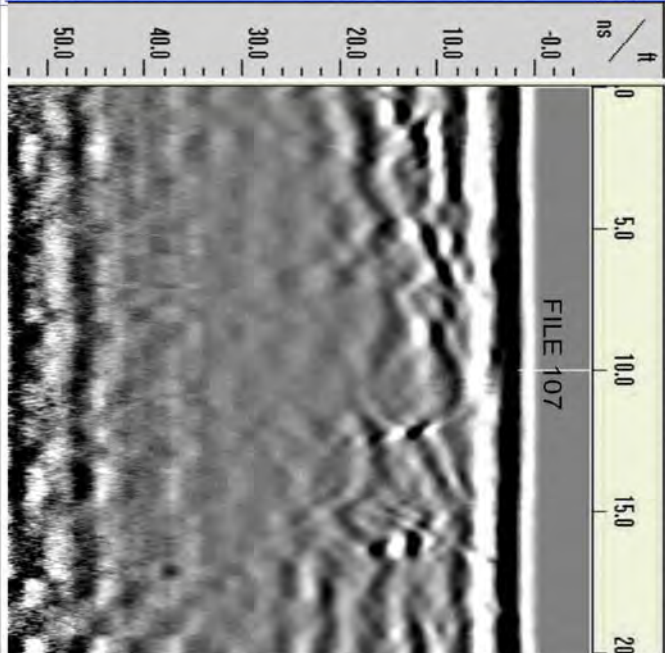
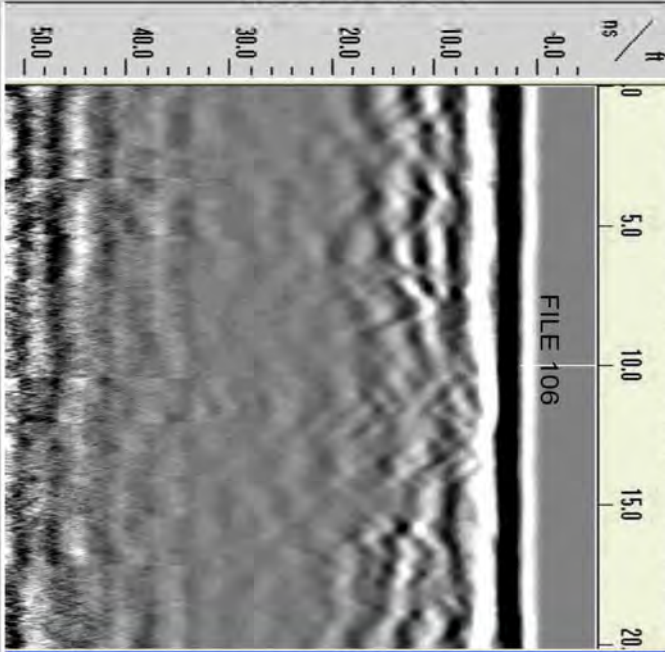
Soil Boring 4-SB-32

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-33

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-33 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there has been interference in the data from the monitoring well and chain link fence. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

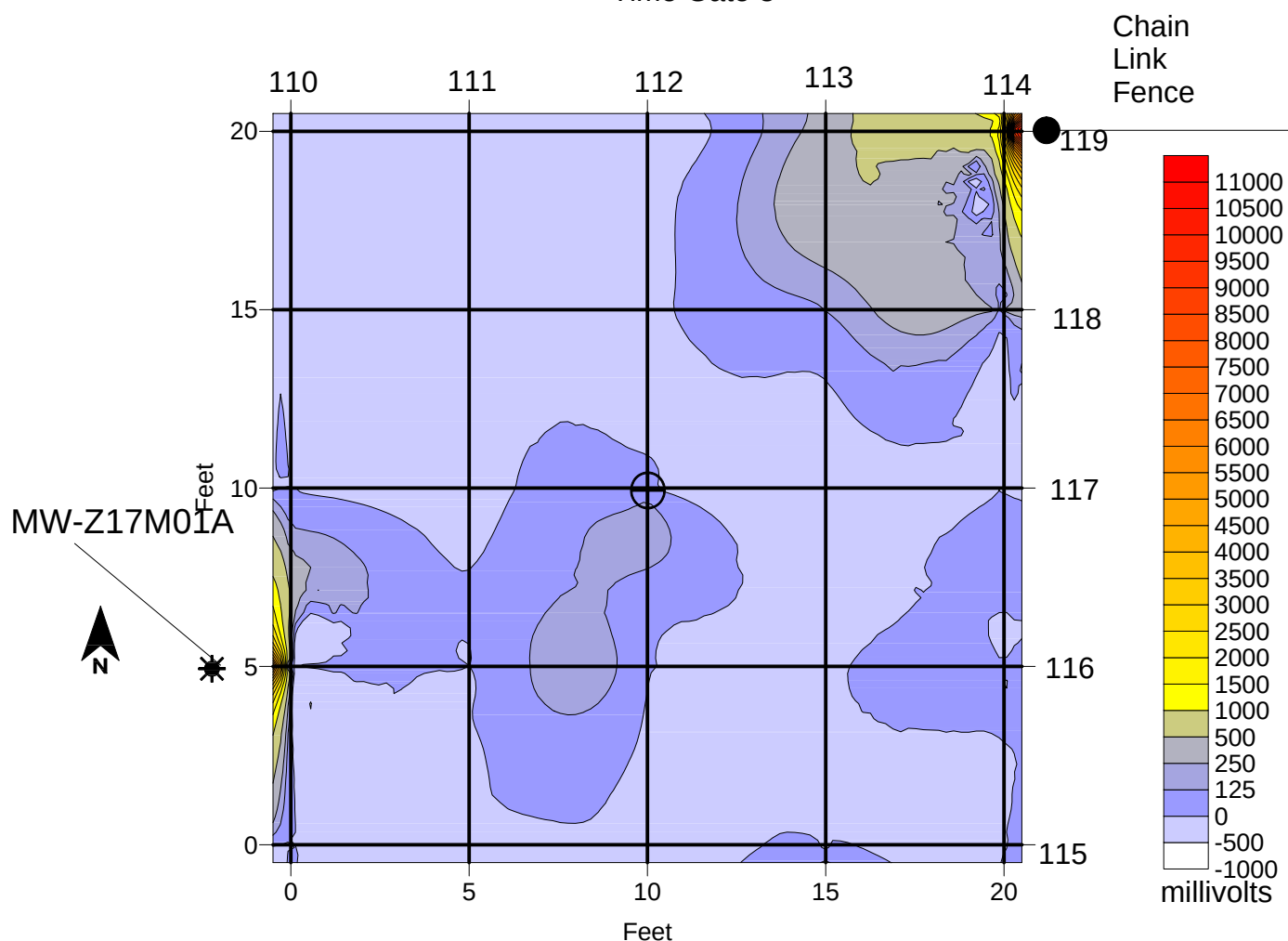
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-33
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

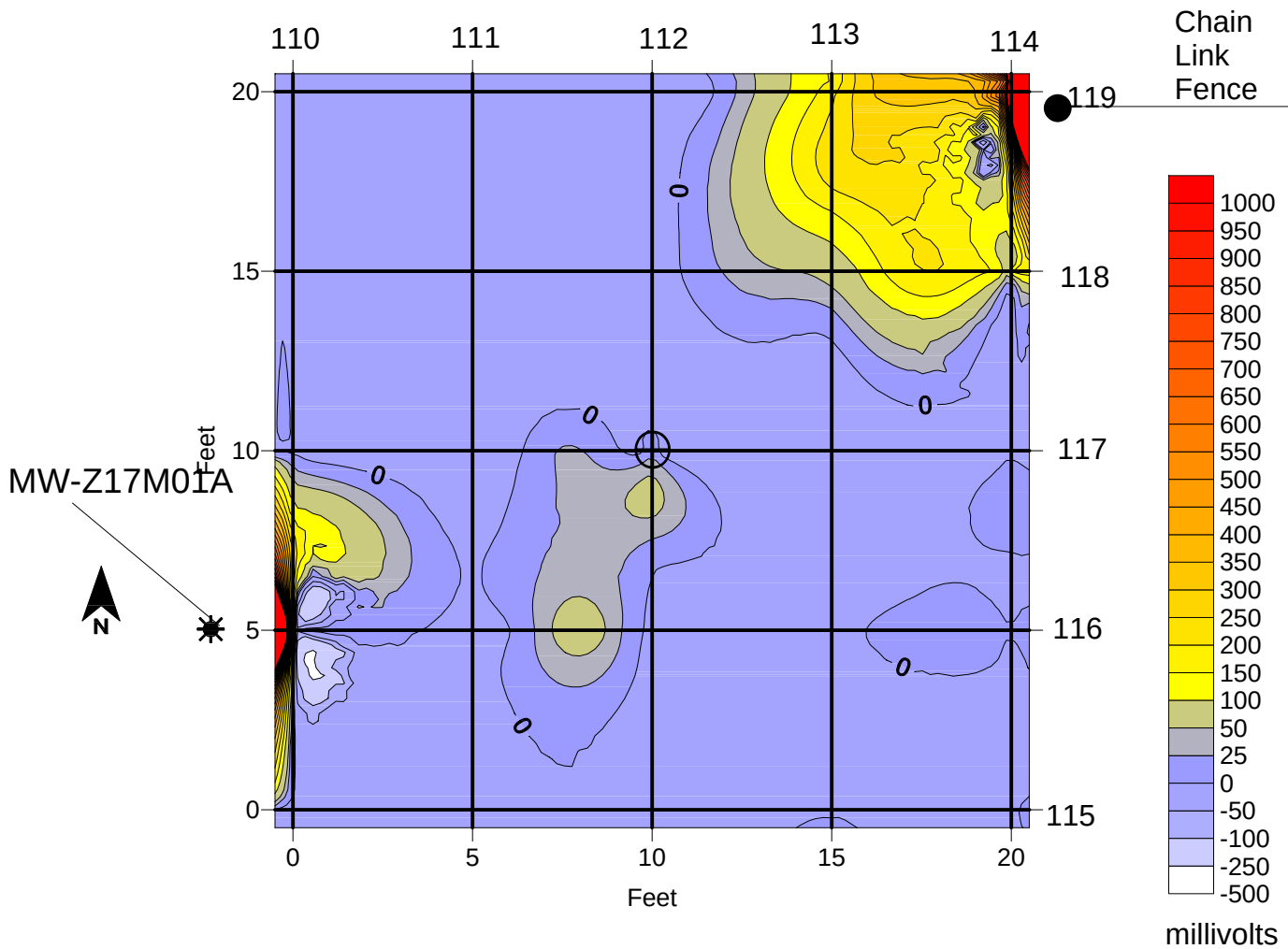
ARM Geophysics

SOIL BORING 4-SB-33

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-33 located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

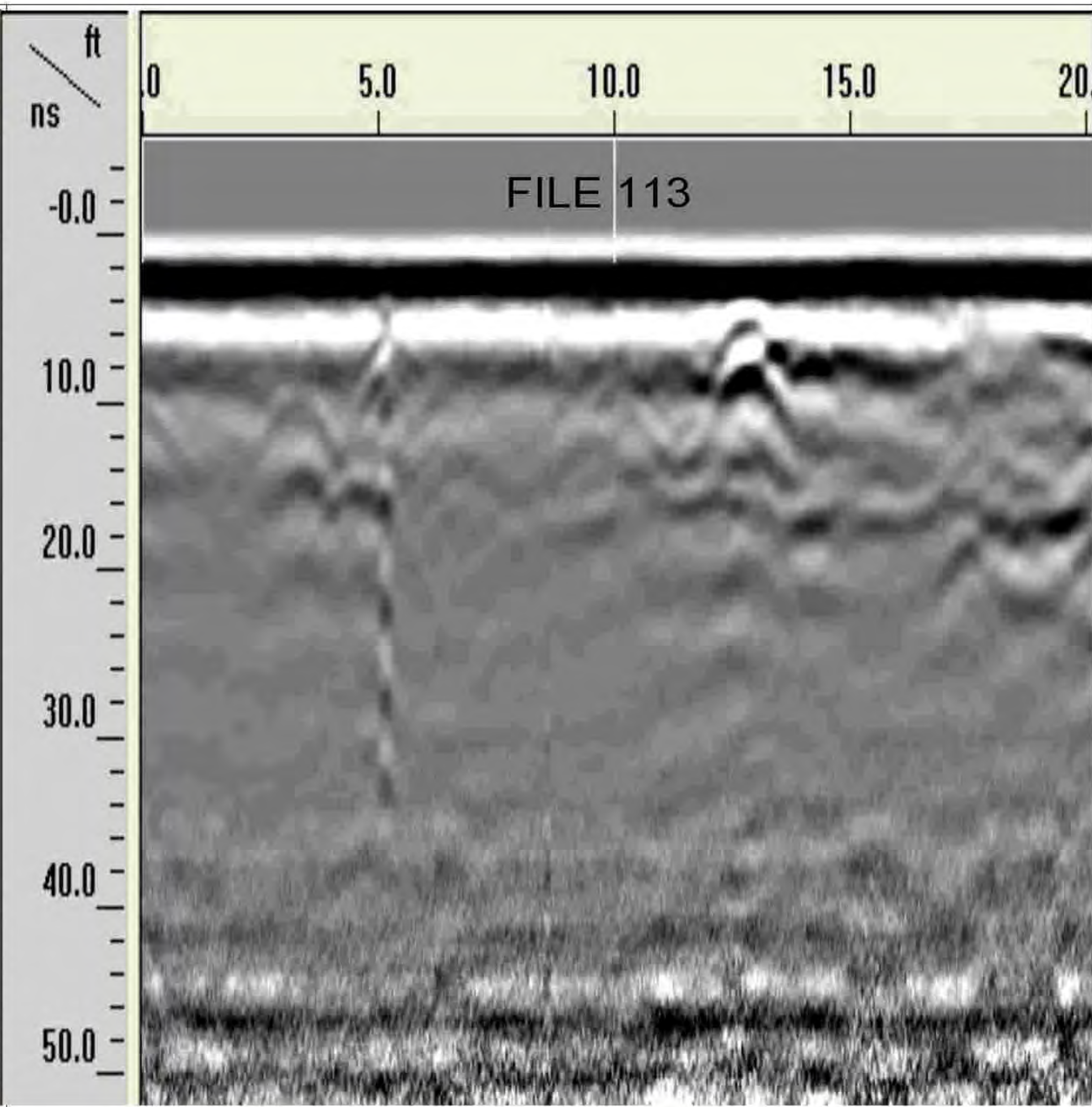
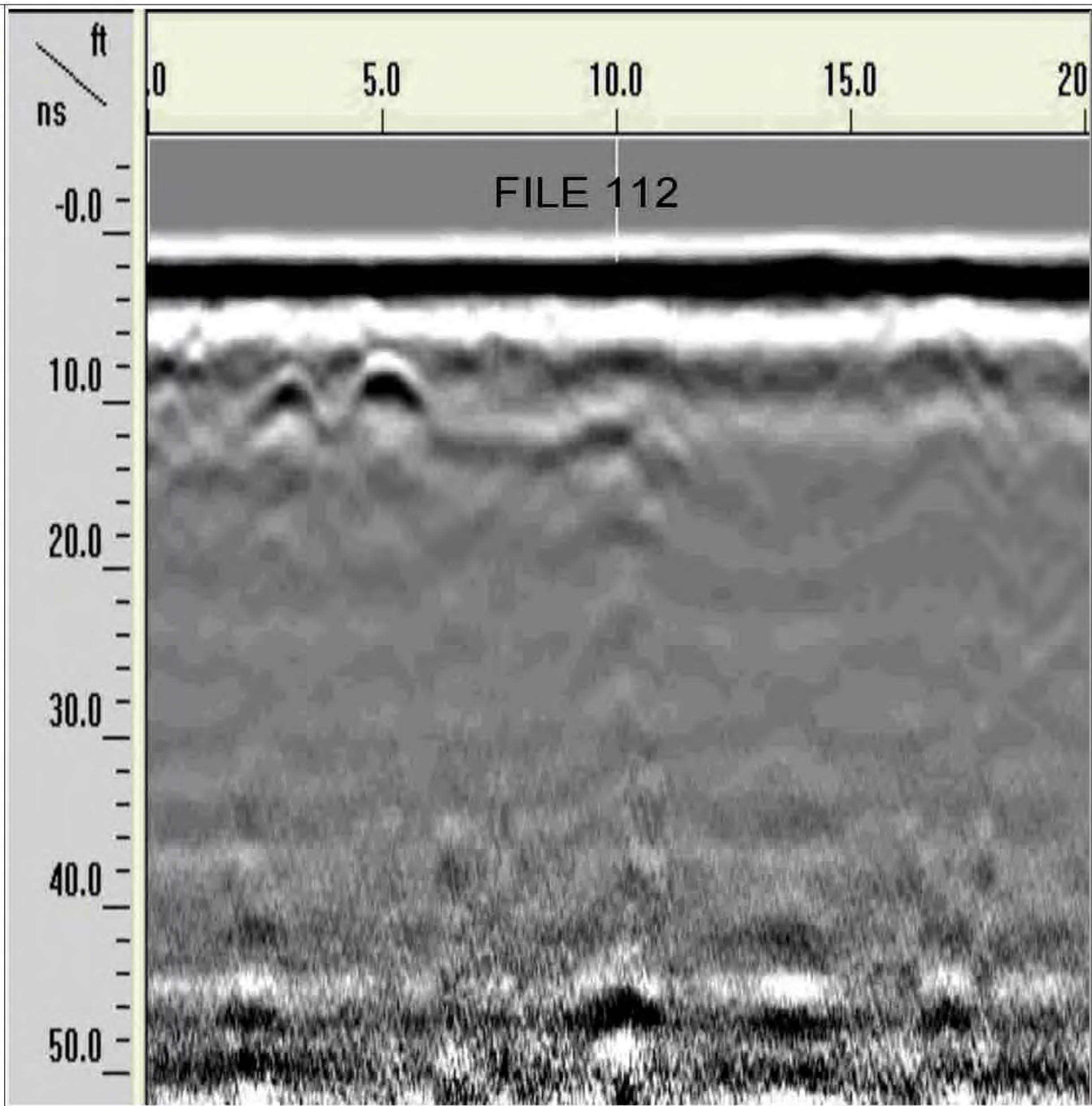
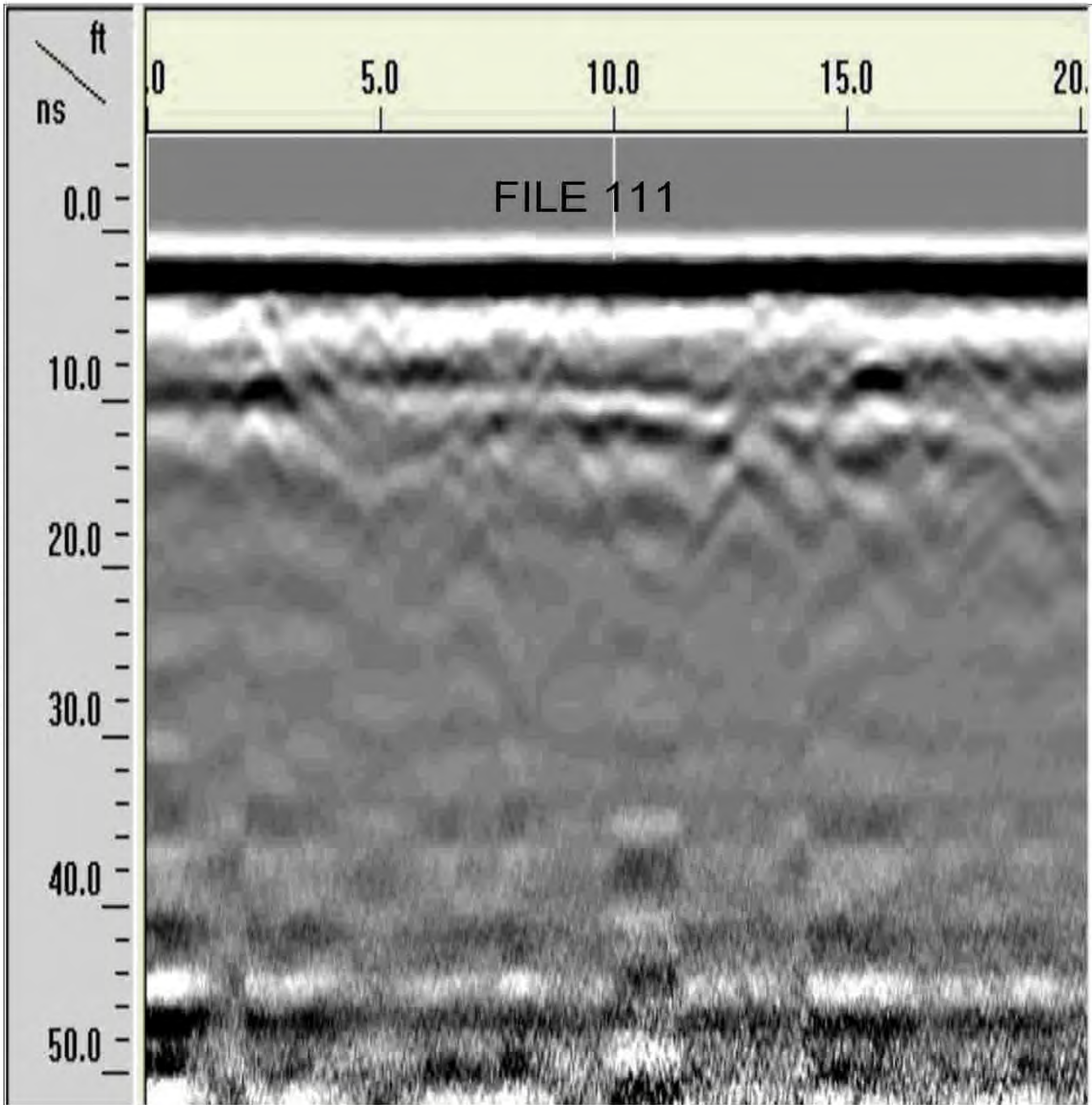
SOIL BORING 4-SB-33

SCALE: 1" = 5'

June 22, 2007

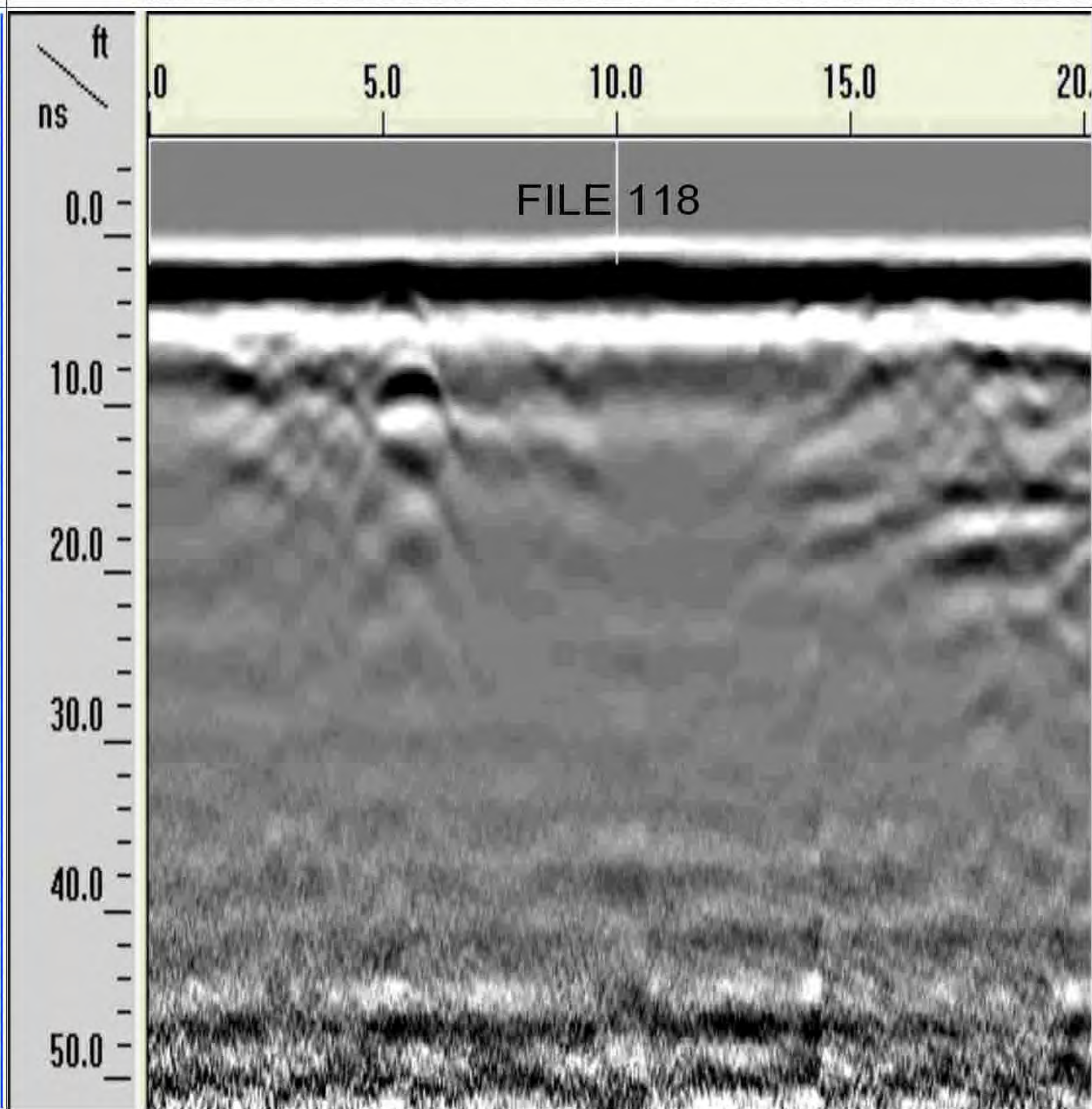
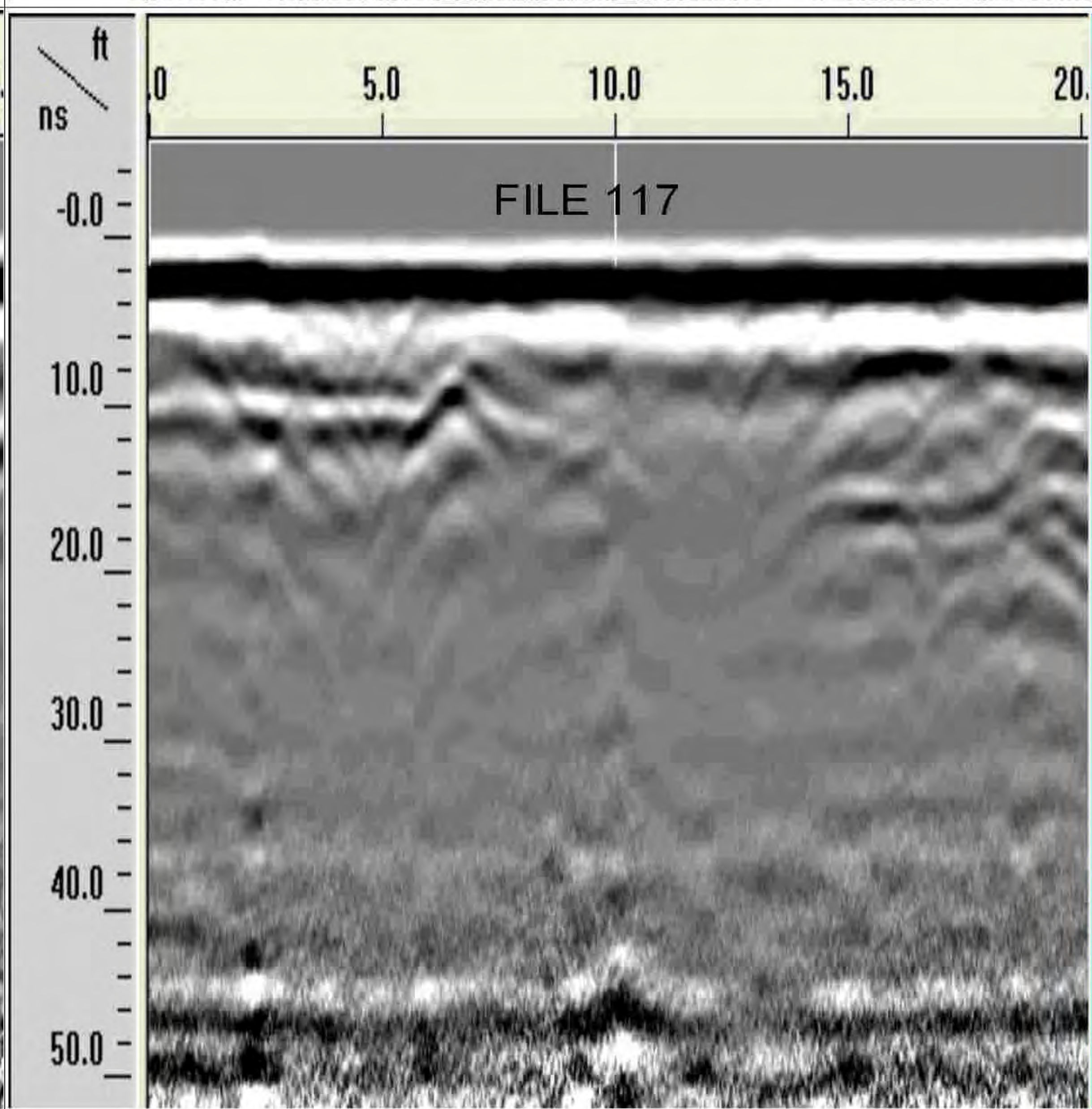
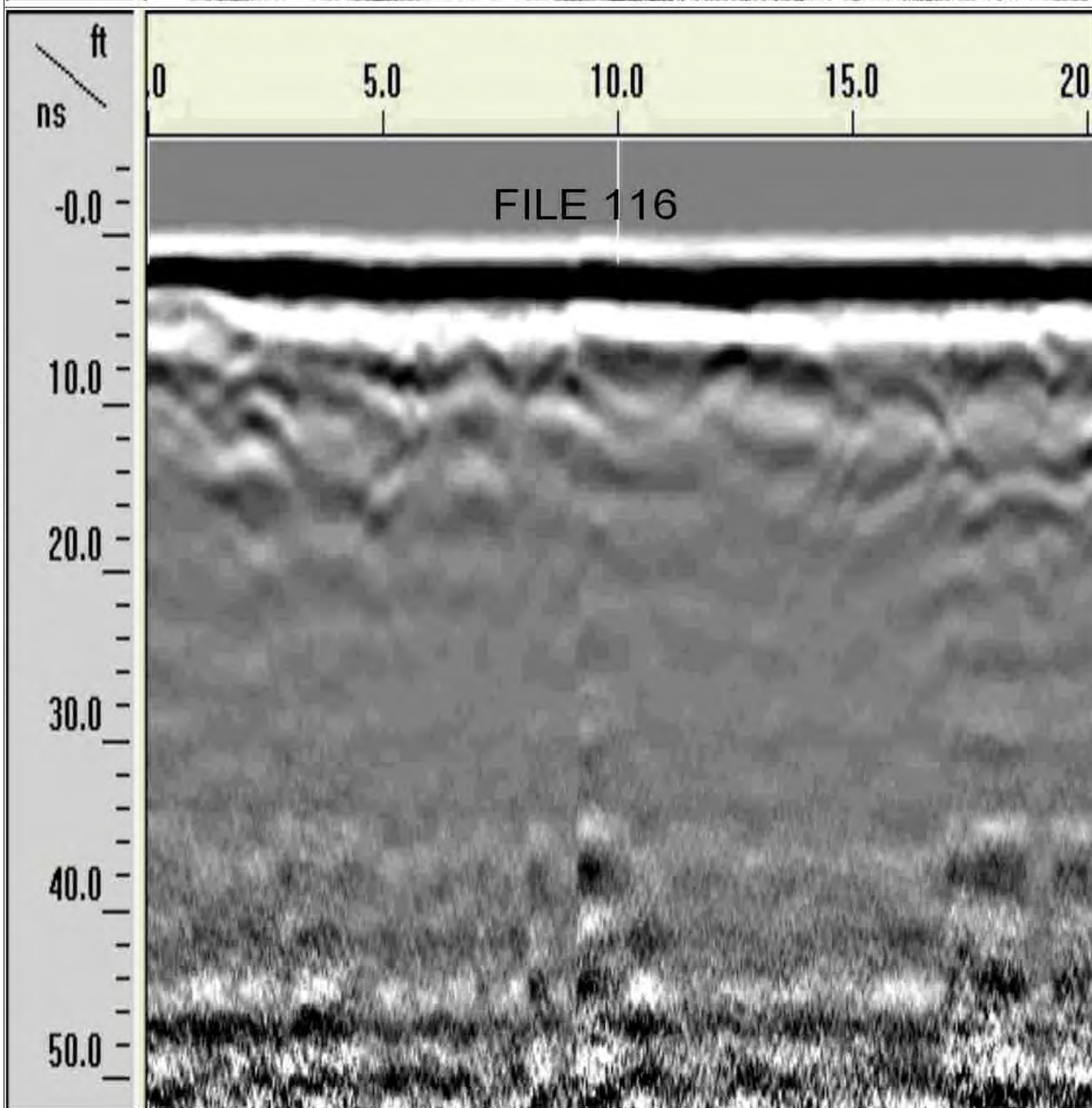
Soil Boring 4-SB-33

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-35

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-35 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there has been interference in the data from the power lines and other surface features. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

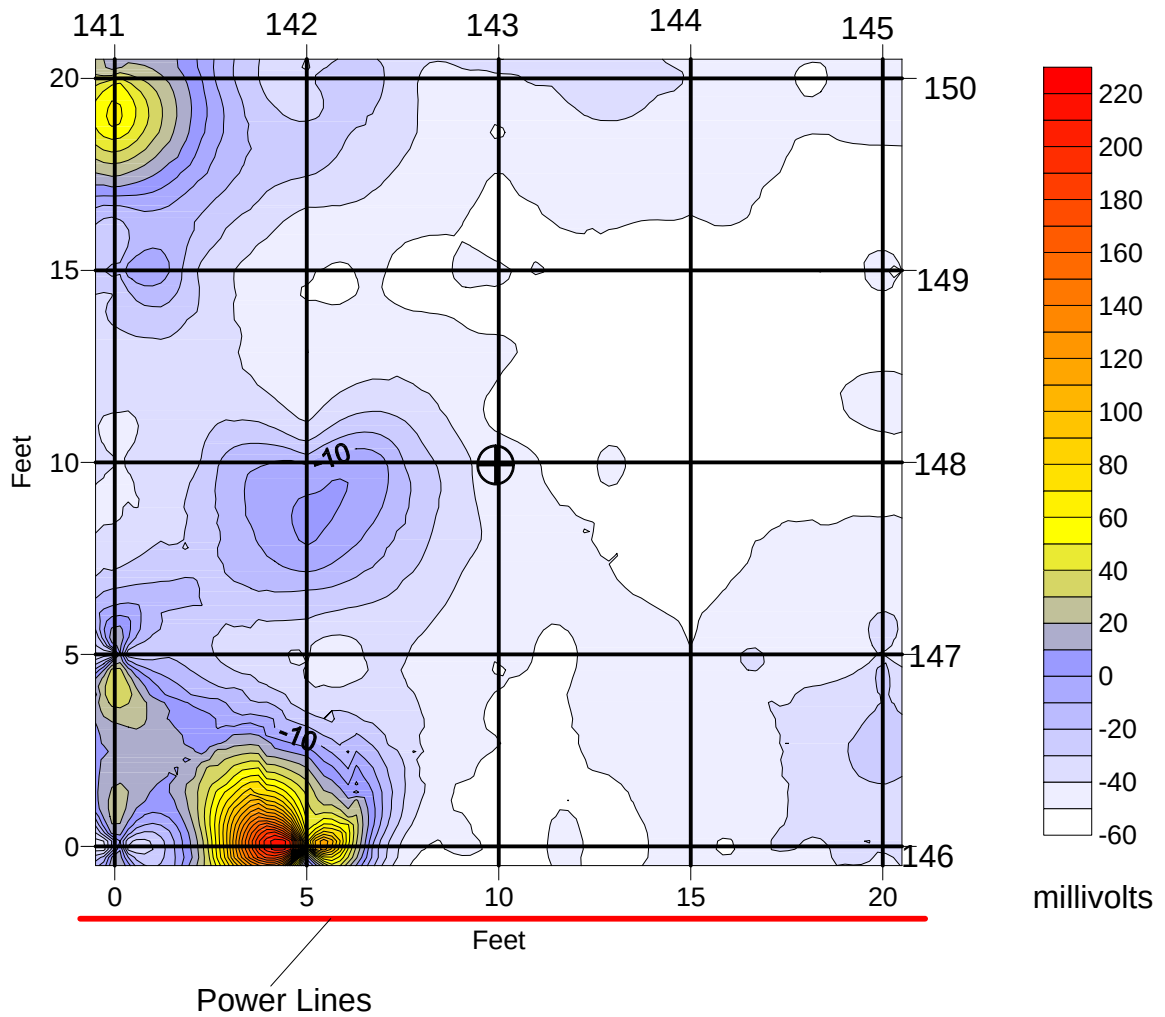
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-35
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

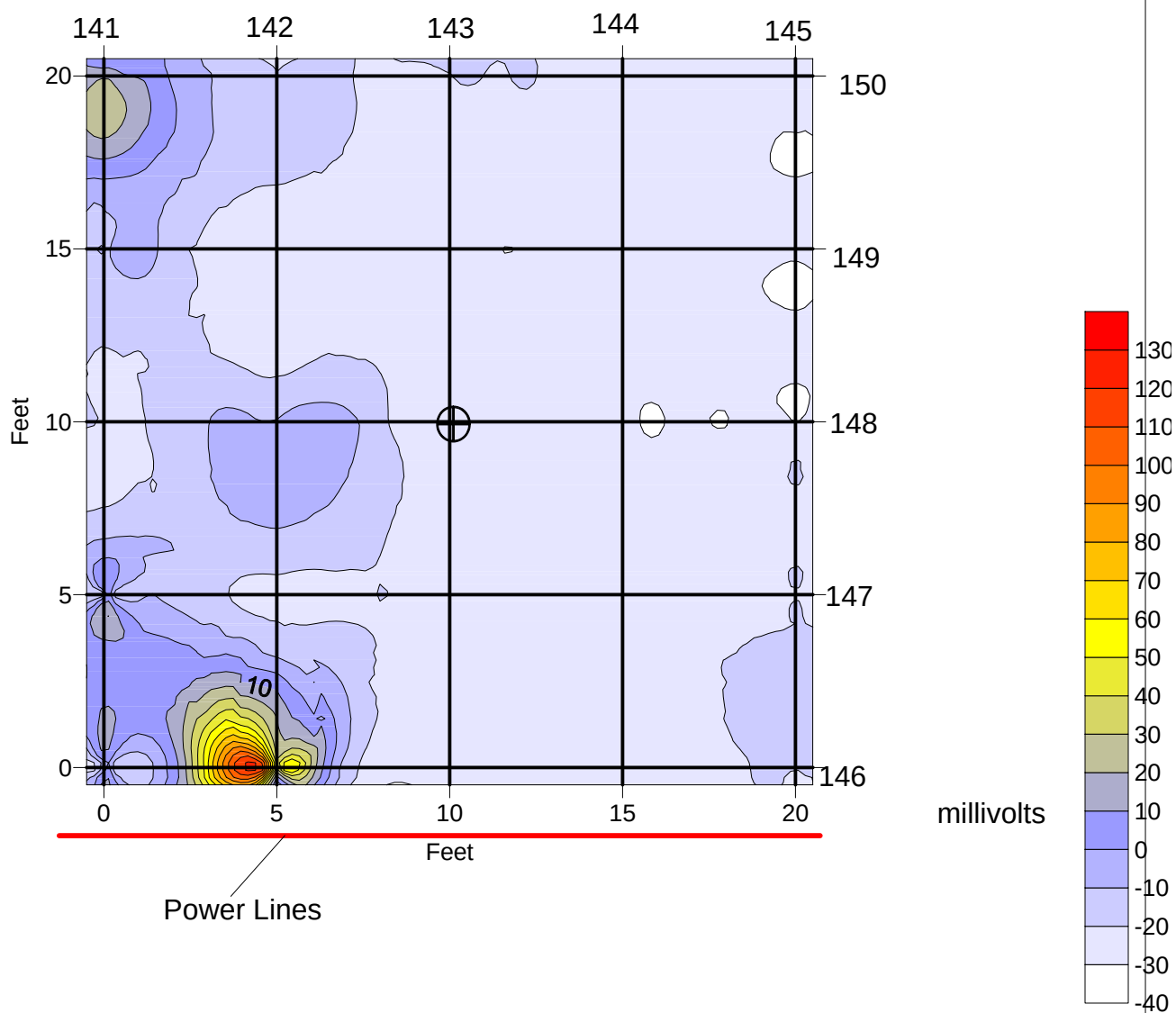
ARM Geophysics

SOIL BORING 4-SB-35

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-35
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

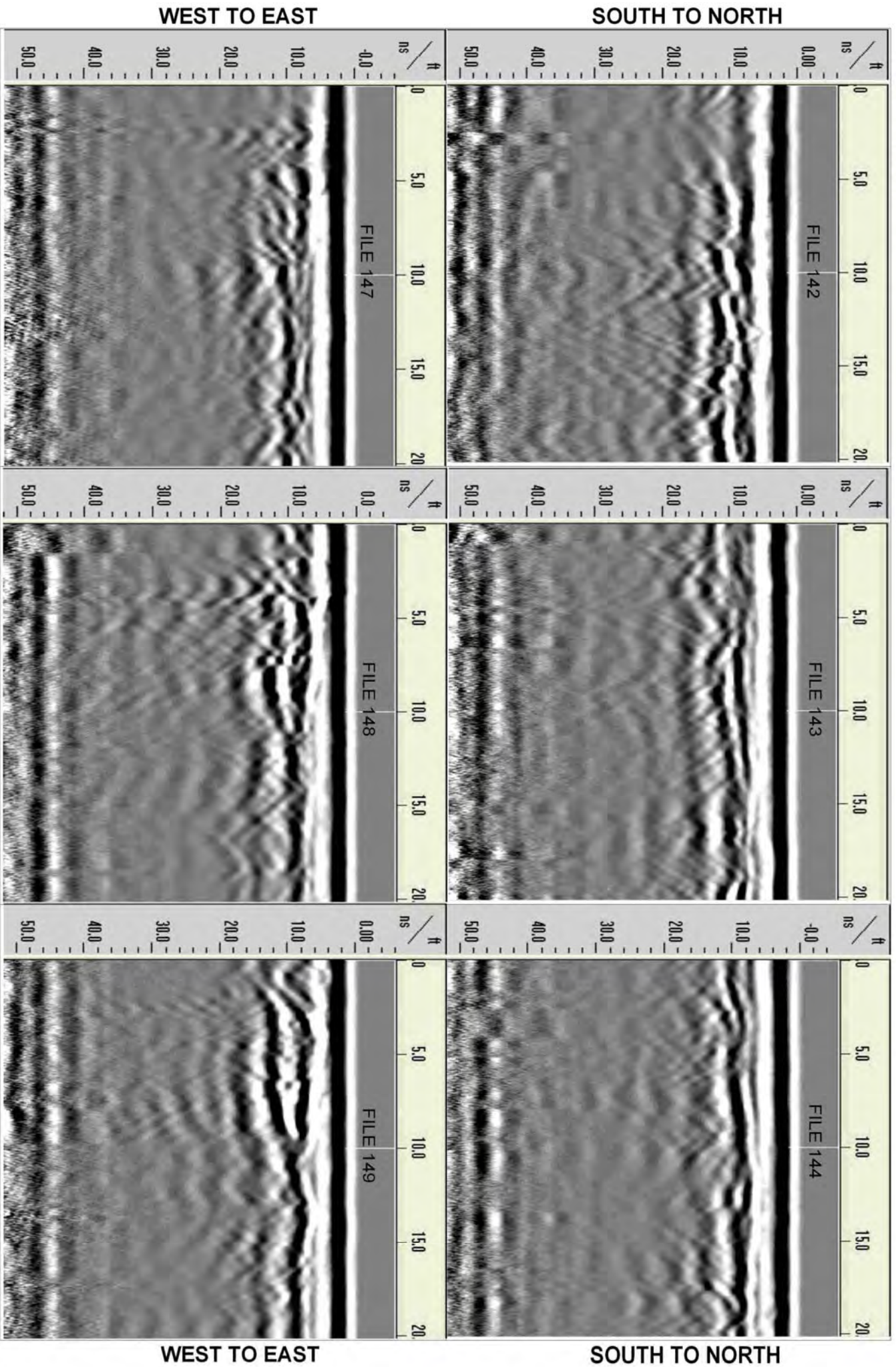
ARM Geophysics

SOIL BORING 4-SB-35

SCALE: 1" = 5'

June 22, 2007

Soil Boring 4-SB-35



June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-37

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-37 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, most of the EM61 data is negative. This may be due to saturation of the subsurface. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

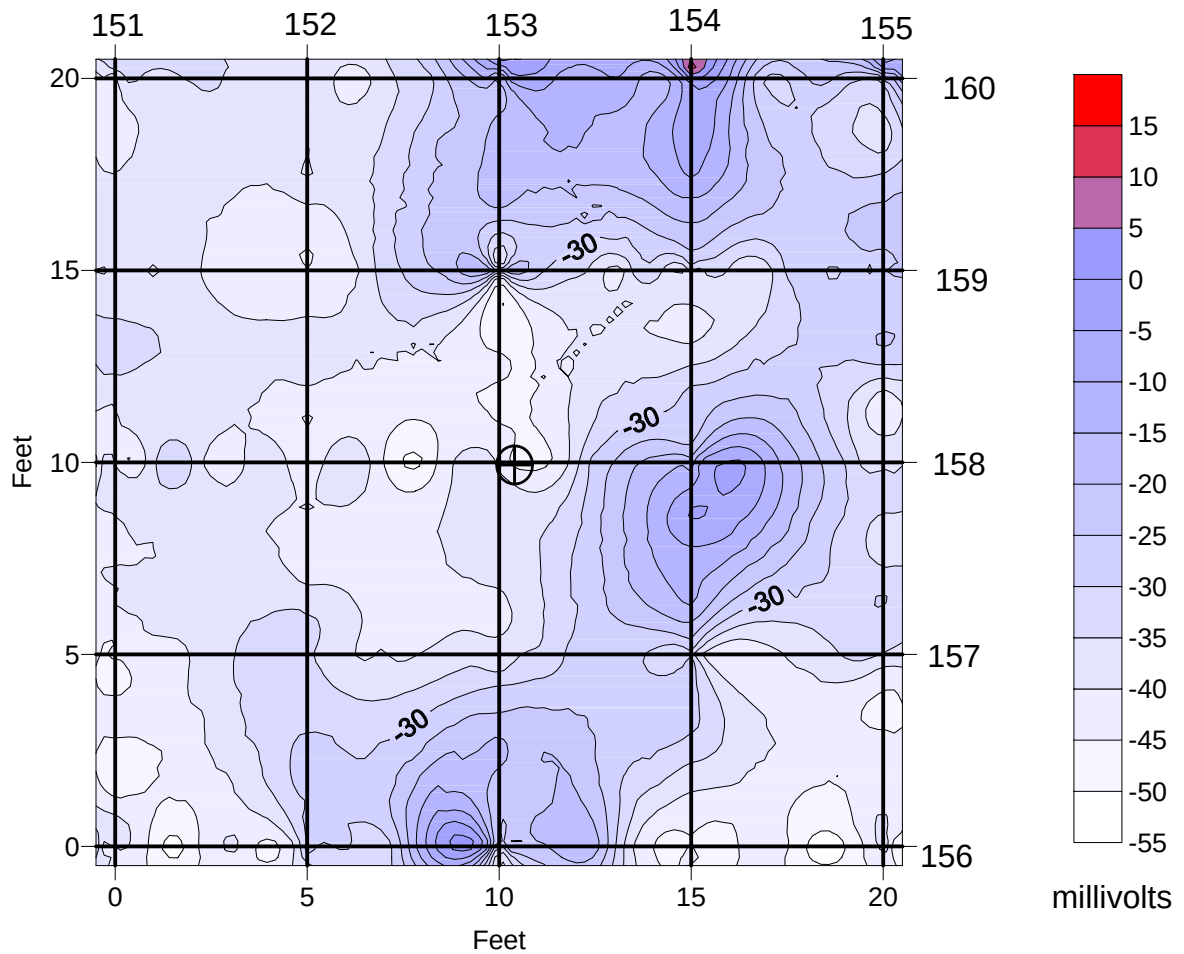
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-37 located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

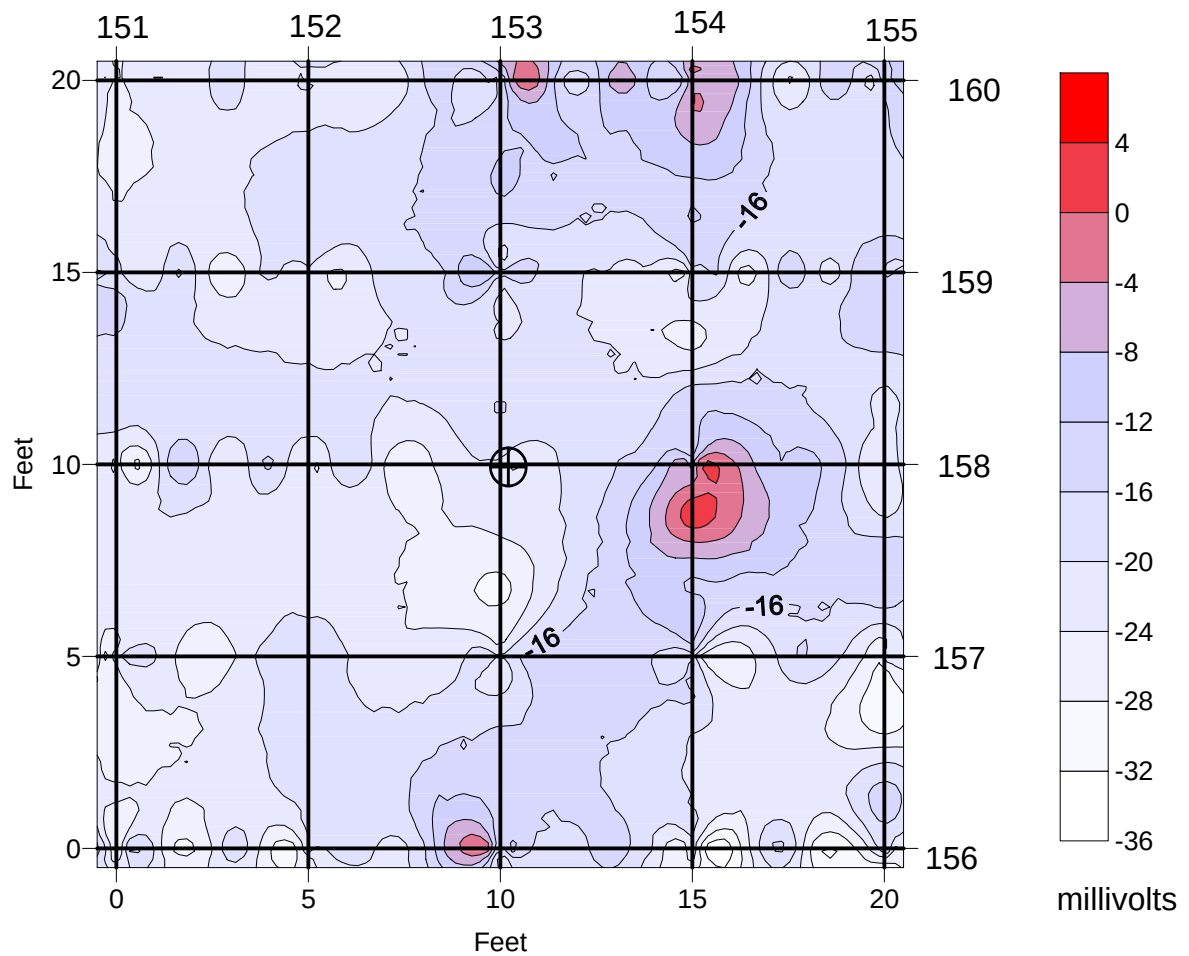
ARM Geophysics

SOIL BORING 4-SB-37

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 4-SB-37
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

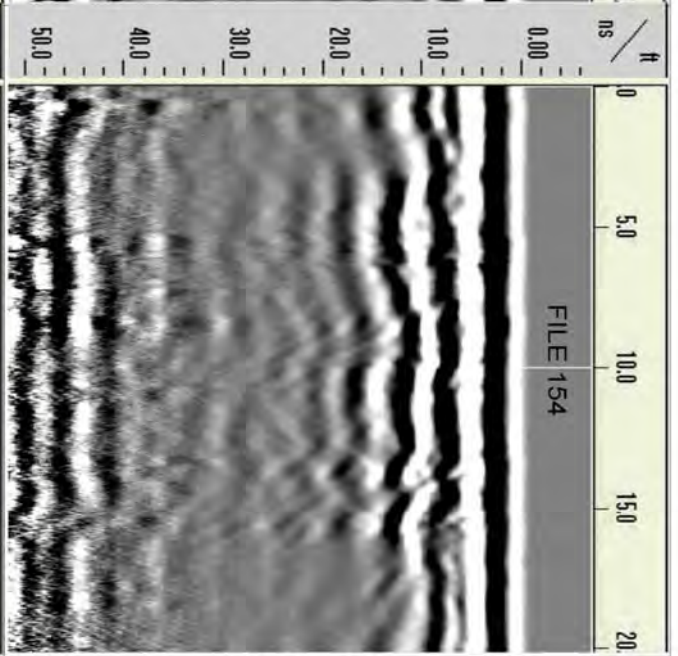
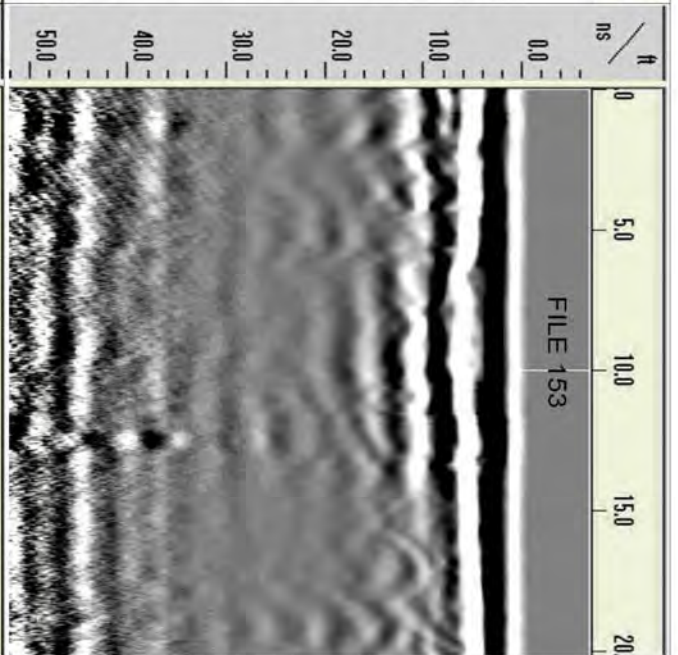
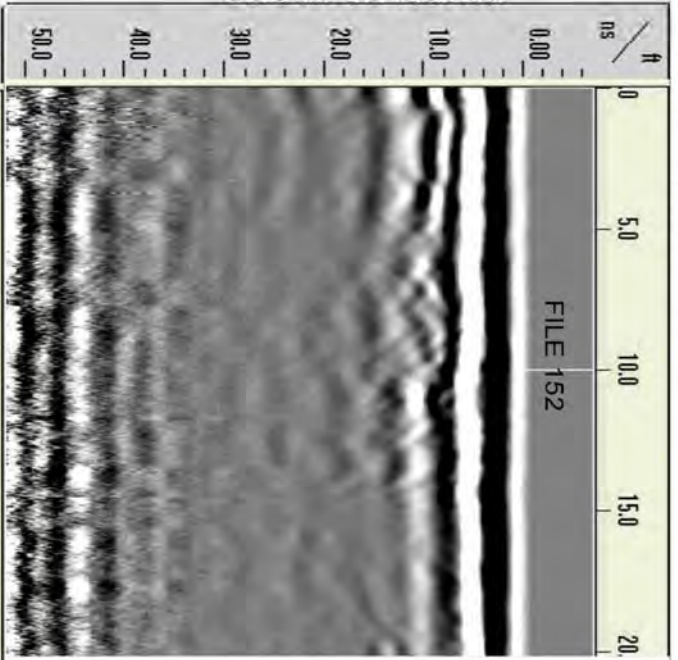
SOIL BORING 4-SB-37

SCALE: 1" = 5'

June 22, 2007

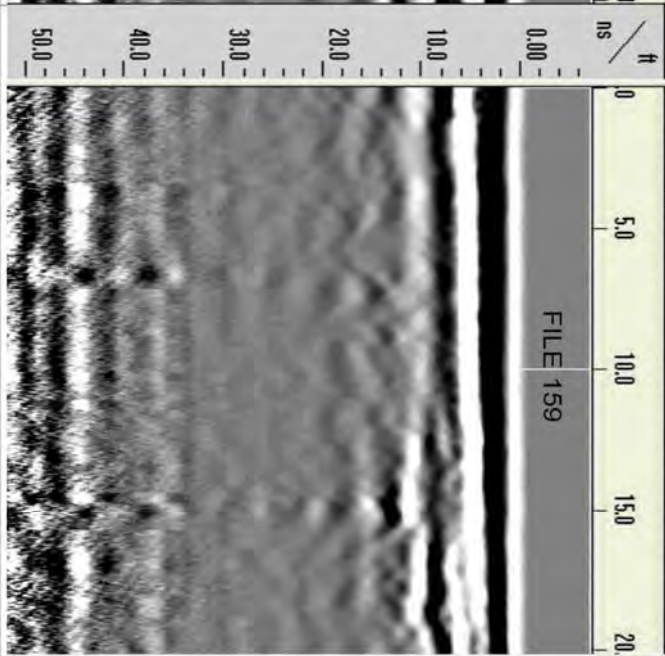
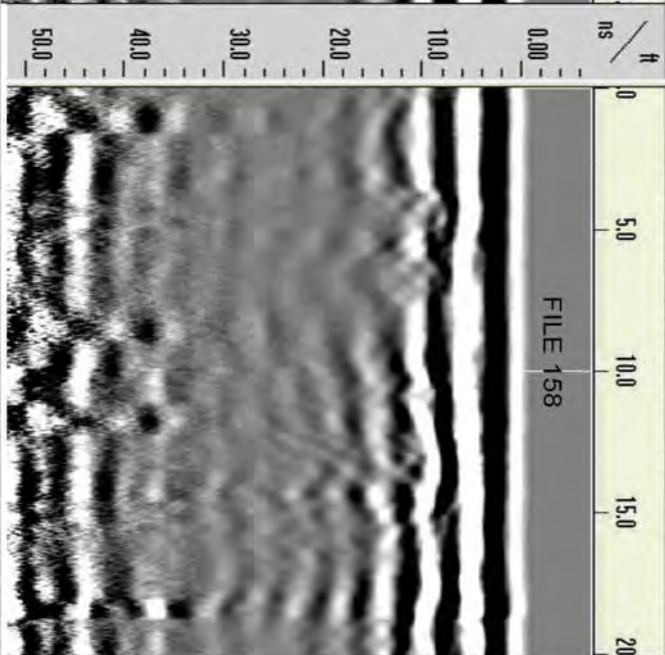
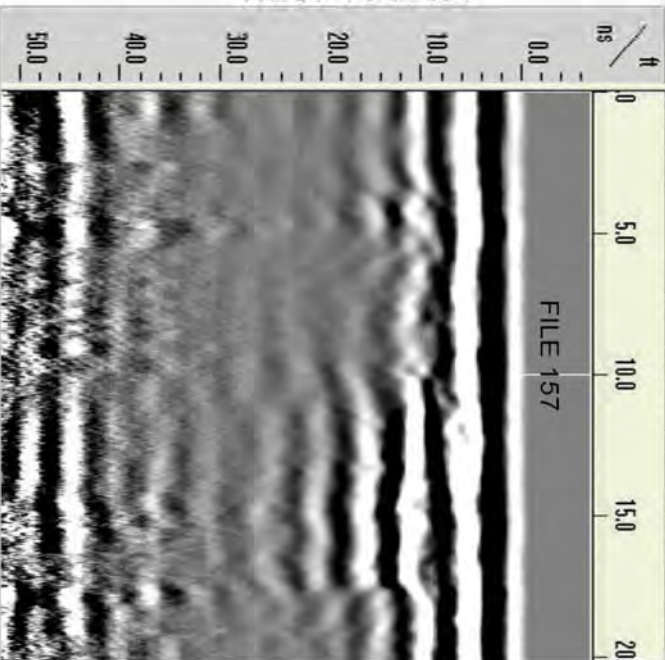
Soil Boring 4-SB-37

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-39

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-39 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, most of the EM61 data is negative. This may be due to saturation of the subsurface. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow). However, there is a metallic anomaly, confirmed by the GPR records, located adjacent to the boring location. This may be miscellaneous debris because it is not elongated or trending in a specific direction.

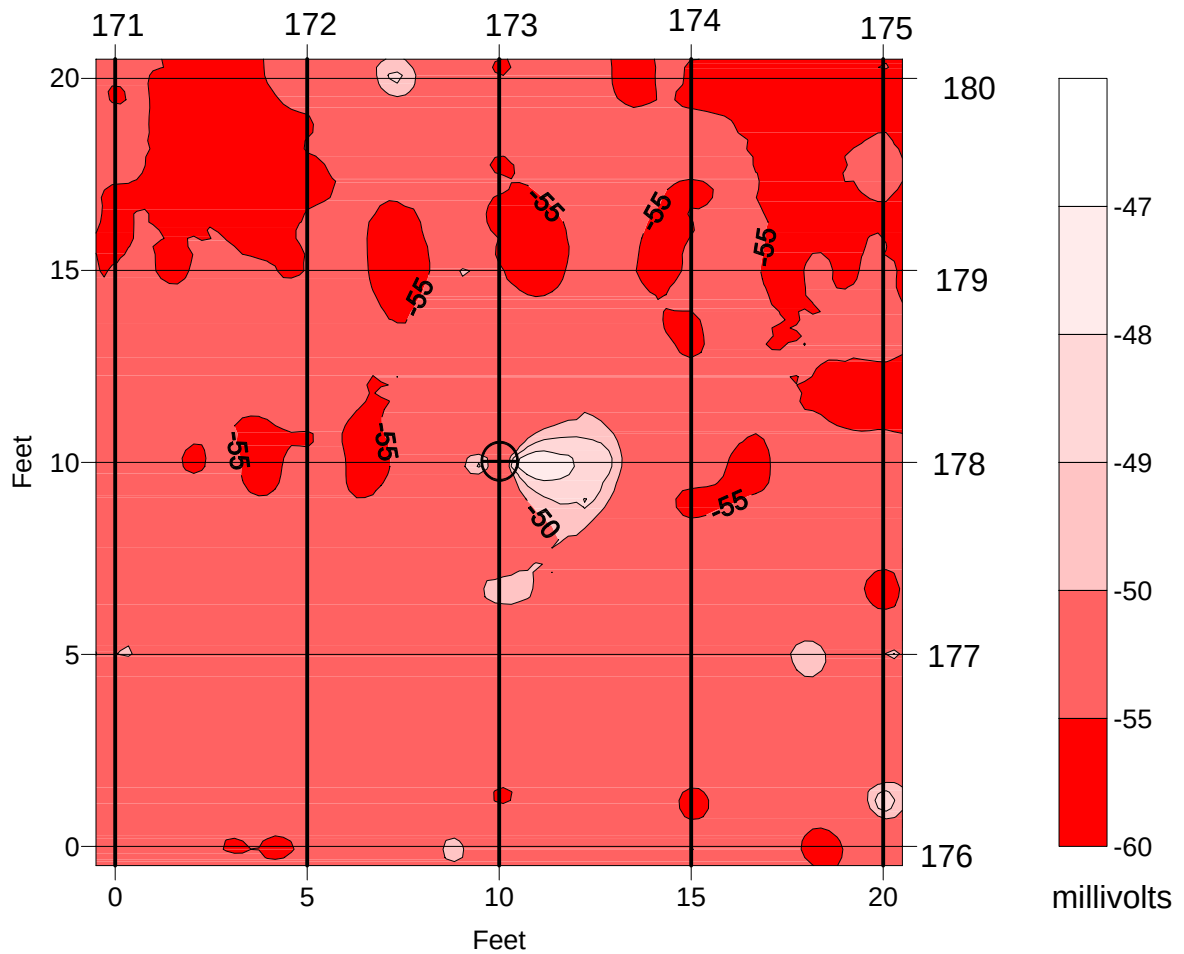
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities. The previously mentioned anomaly appears to not continue in any direction as would be typical for a utility. This may be debris.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

— 52500 — magnetic contour line

043 — GPR line with file number at start of profile

Soil Boring 4-SB-39
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

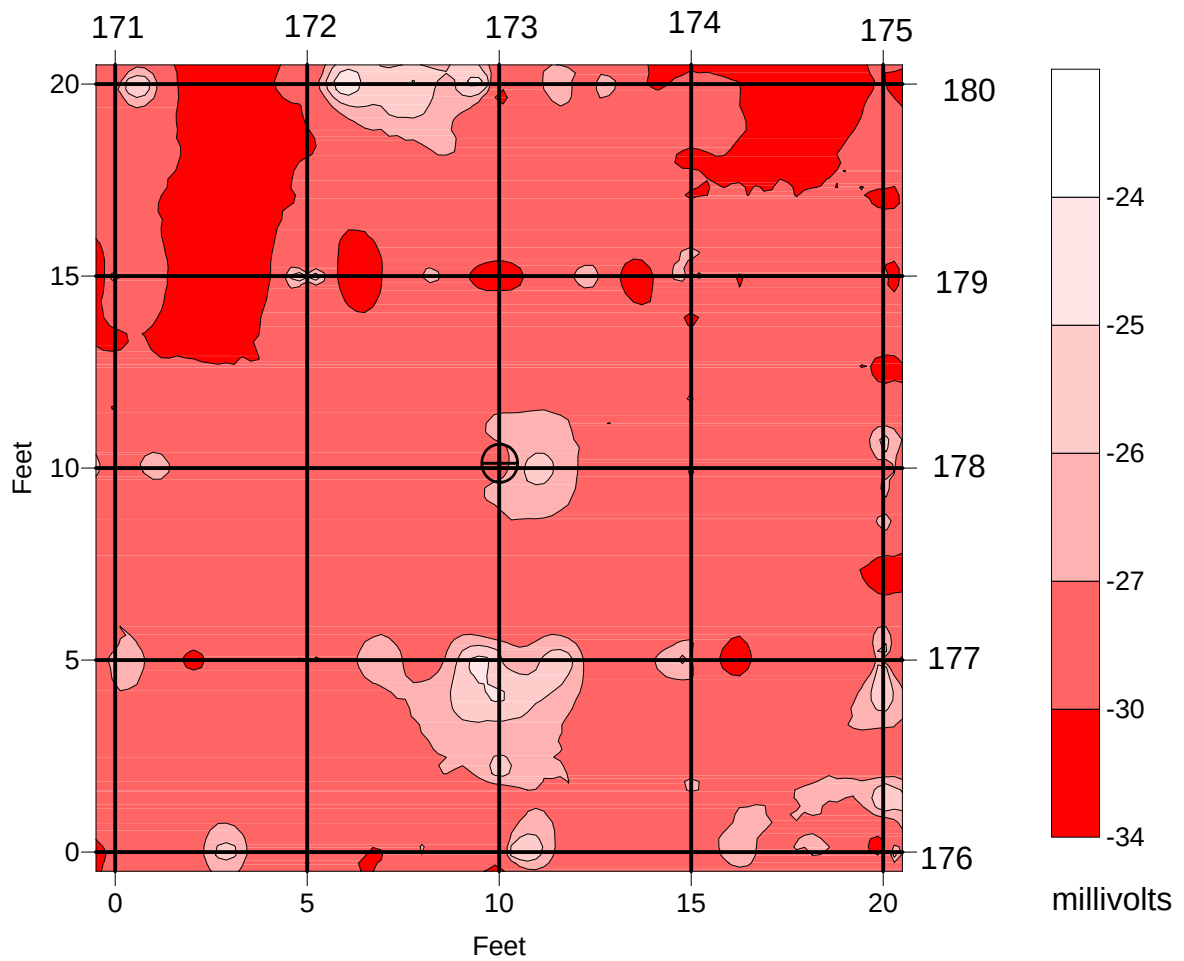
ARM Geophysics

SOIL BORING 4-SB-39

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-39
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

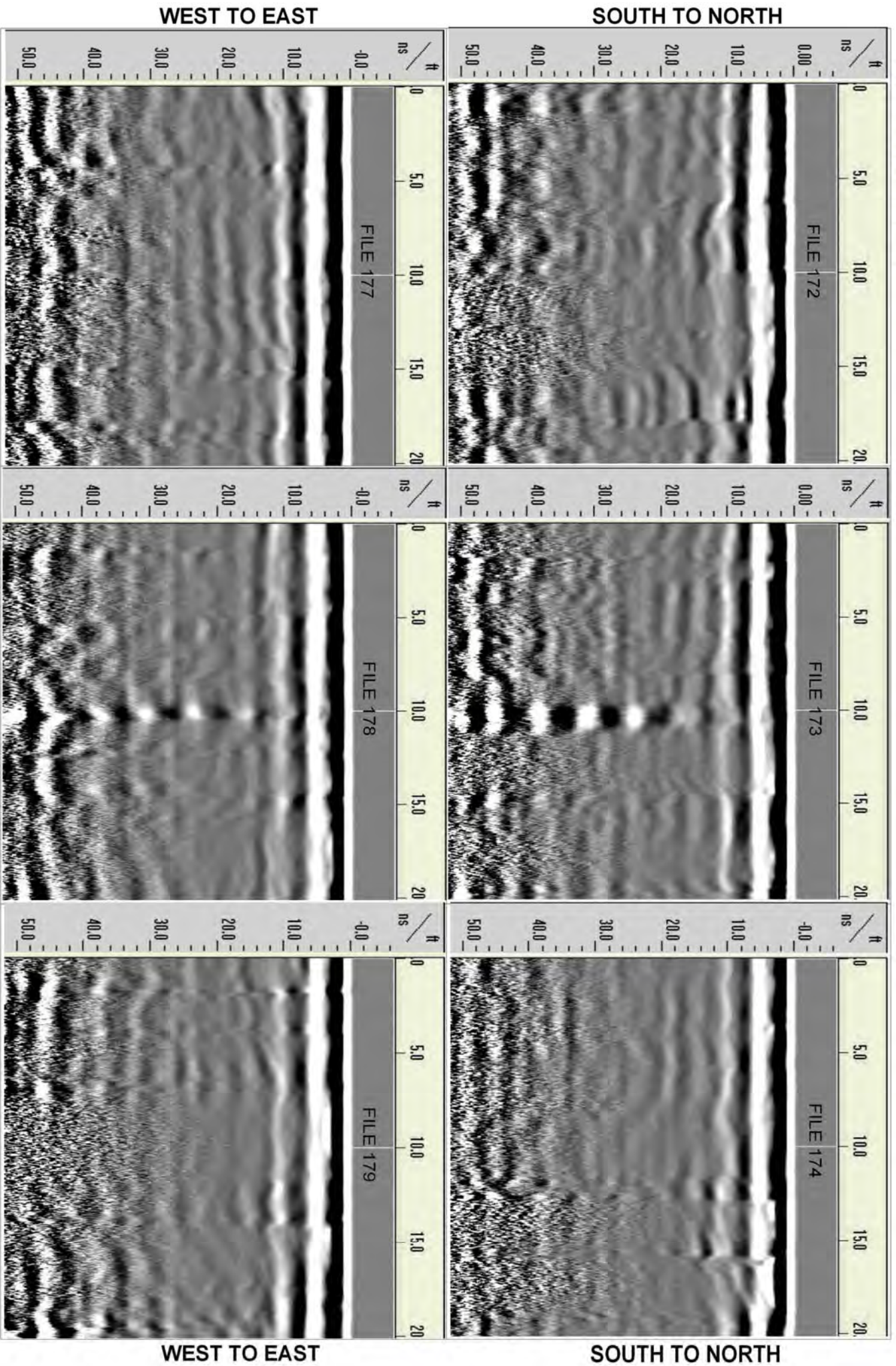
ARM Geophysics

SOIL BORING 4-SB-39

SCALE: 1" = 5'

June 22, 2007

Soil Boring 4-SB-39



June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-40

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 4-SB-40 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is limited interference in the data except for three anomalous areas which may represent surface debris or other cultural interference. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

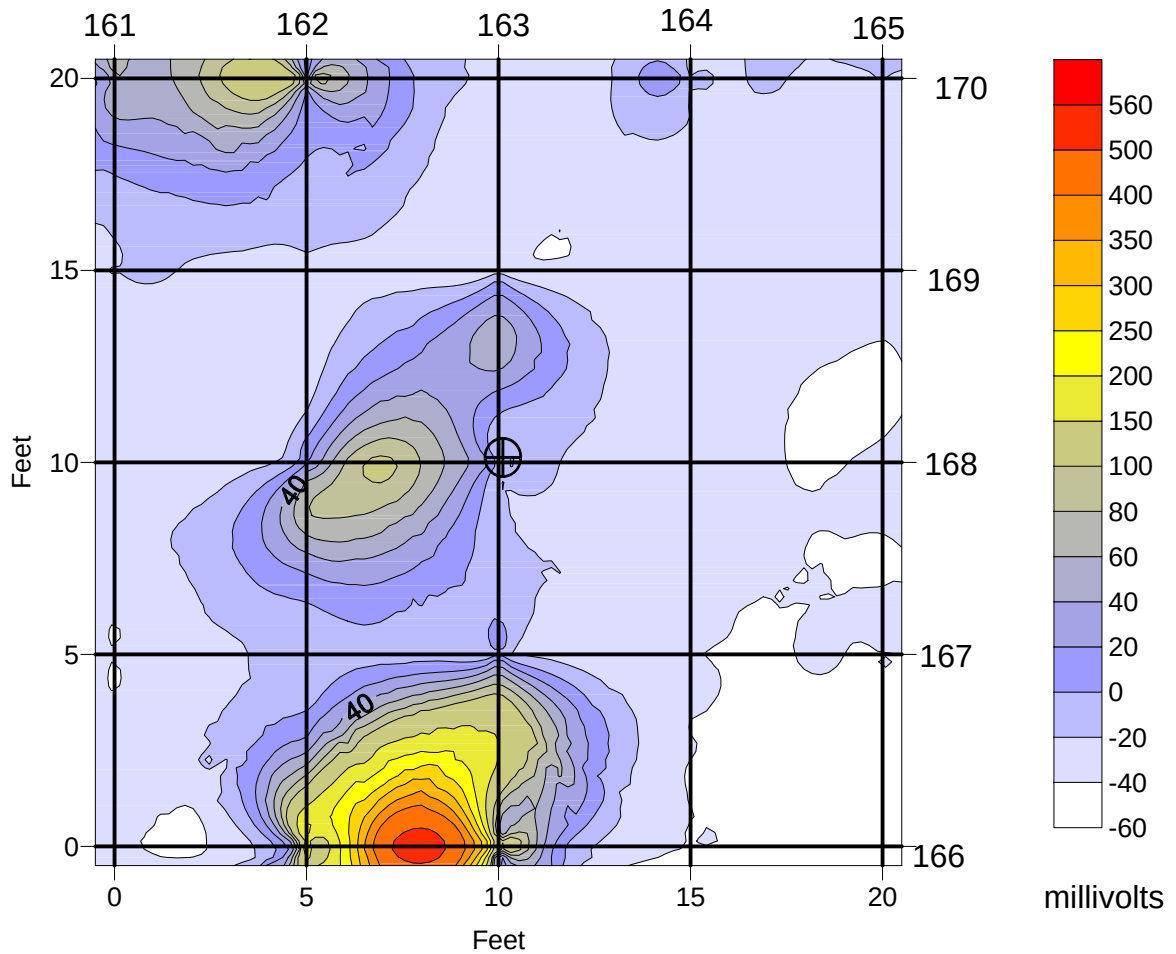
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-40
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

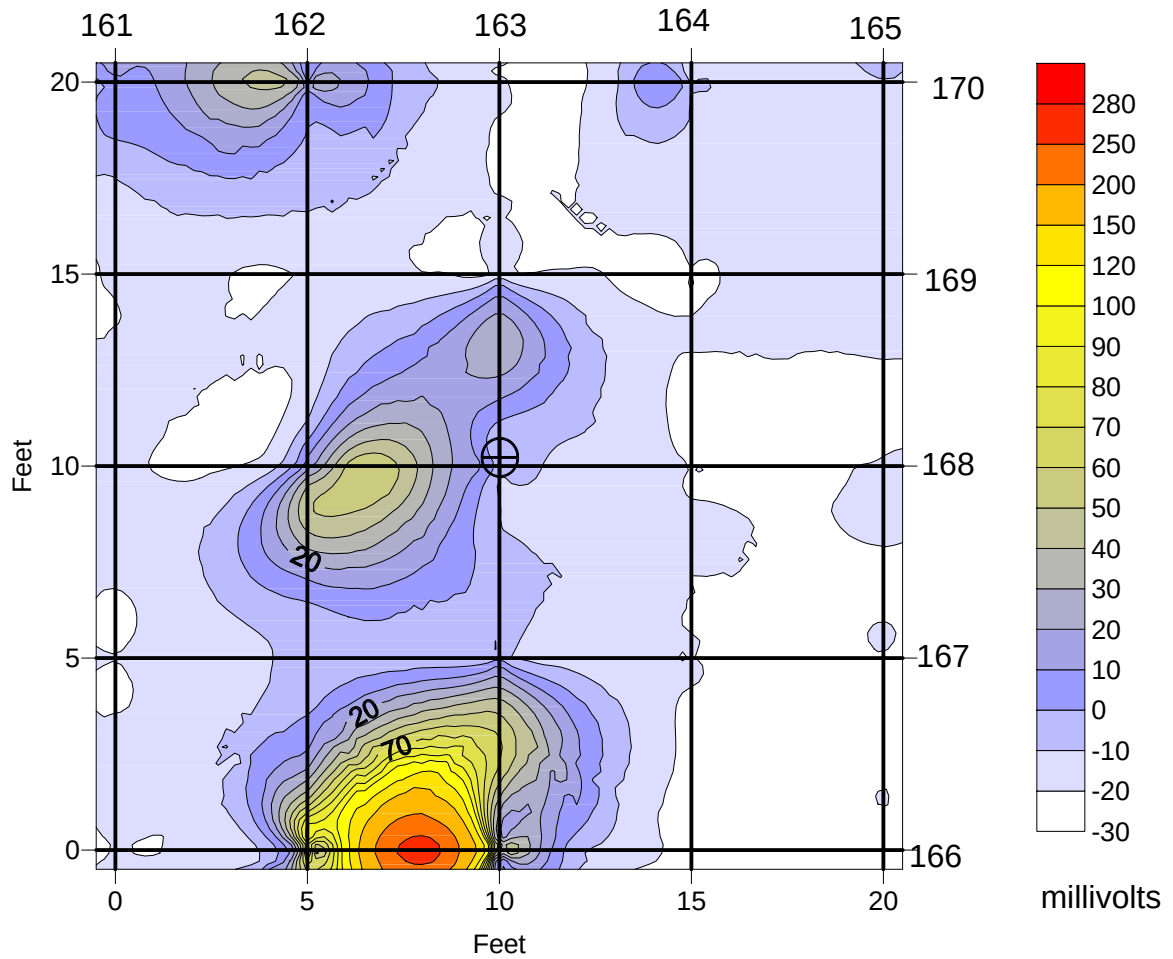
ARM Geophysics

SOIL BORING 4-SB-40

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-40
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

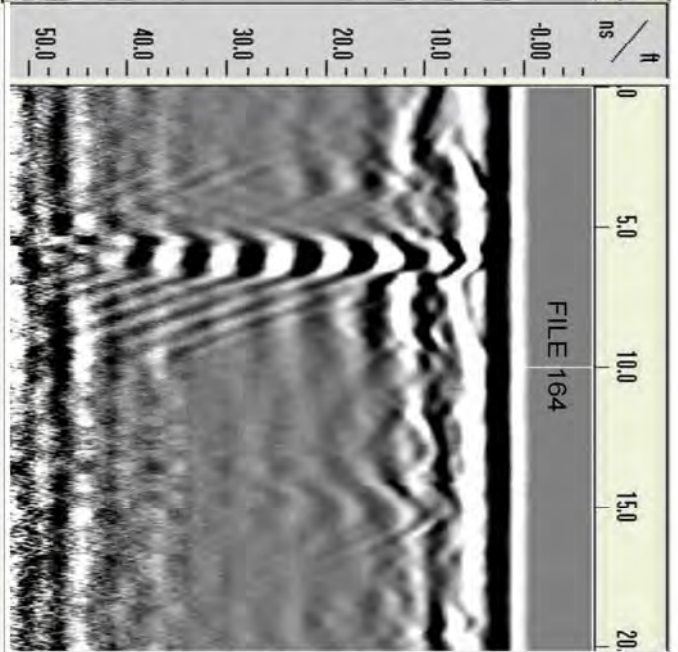
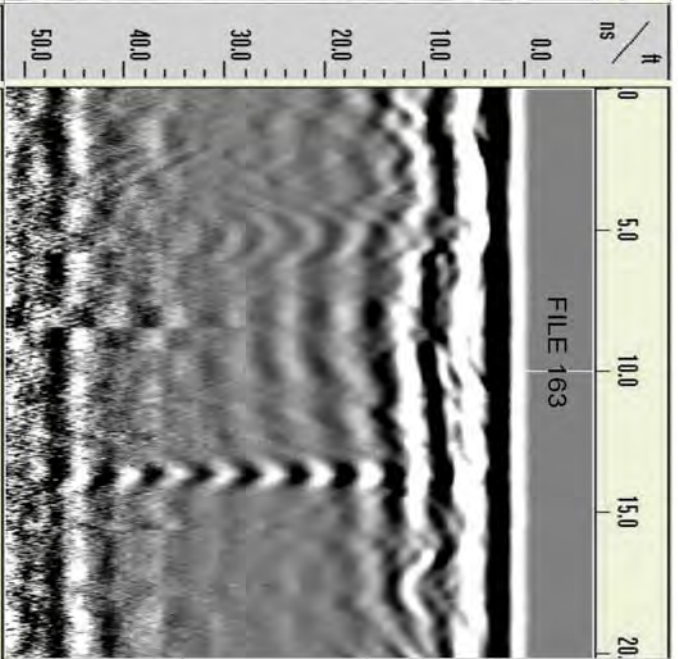
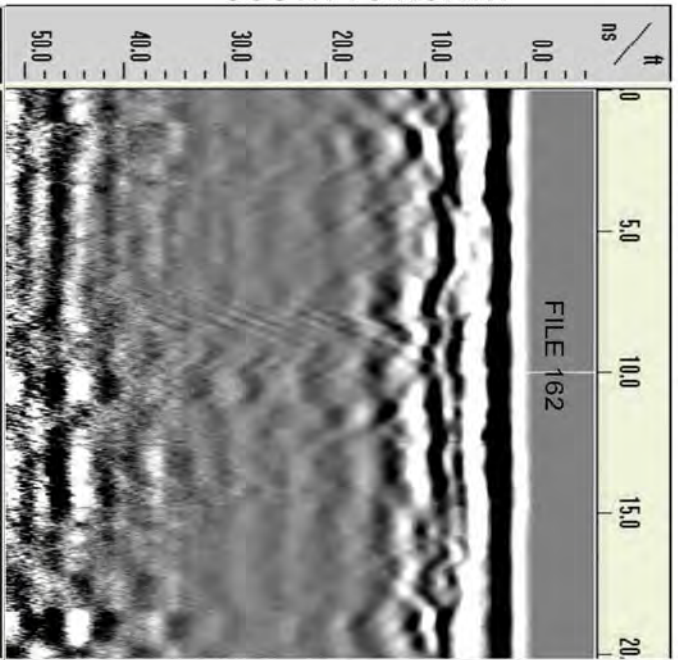
SOIL BORING 4-SB-40

SCALE: 1" = 5'

June 22, 2007

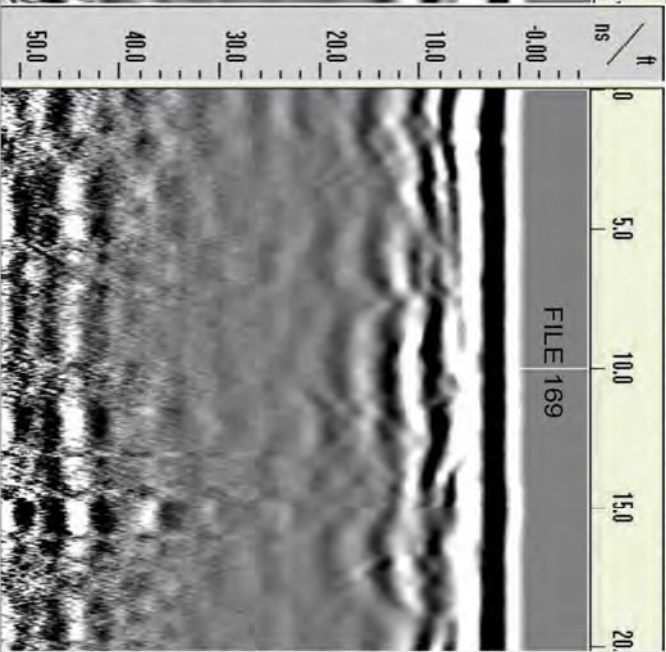
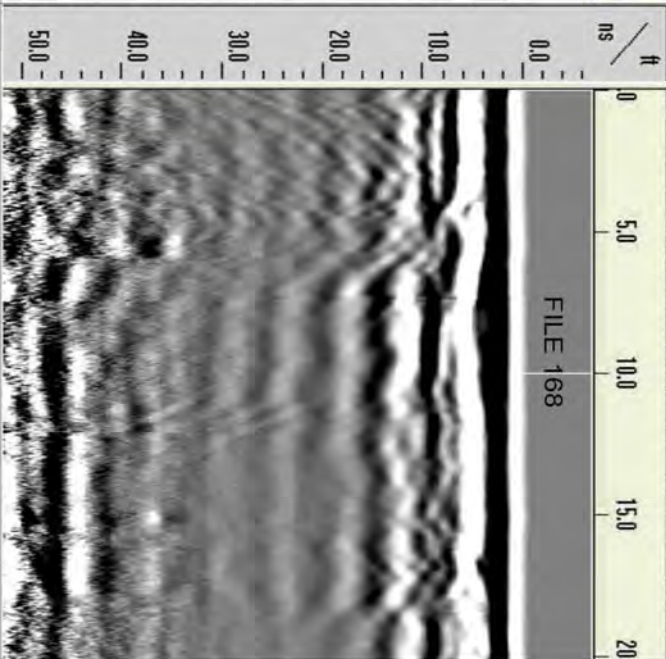
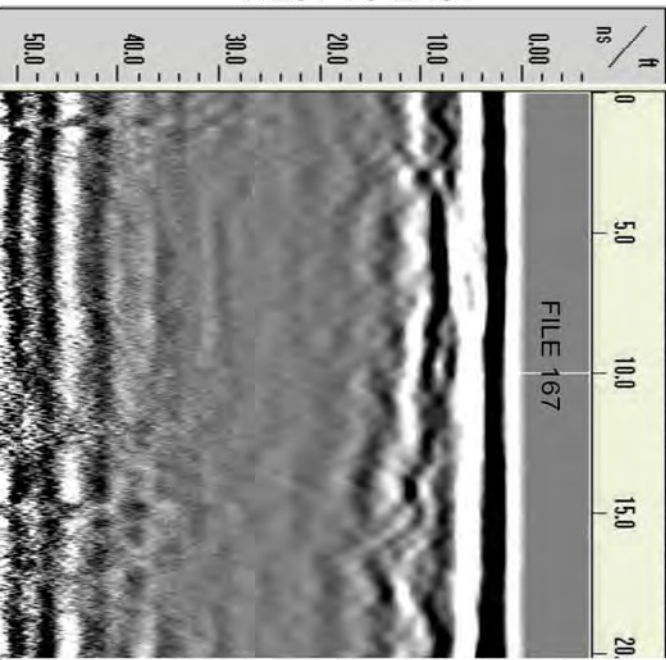
Soil Boring 4-SB-40

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

June 27, 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 4-SB-34, 36, and 38

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil borings 4-SB-34, 4-SB-36, and 4-SB-38 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 75 foot survey grid to encompass the three borings since they were in close proximity. The locations of the borings are shown on the EM-61 figures. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there has been interference in the data from the monitoring well and utility pole. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

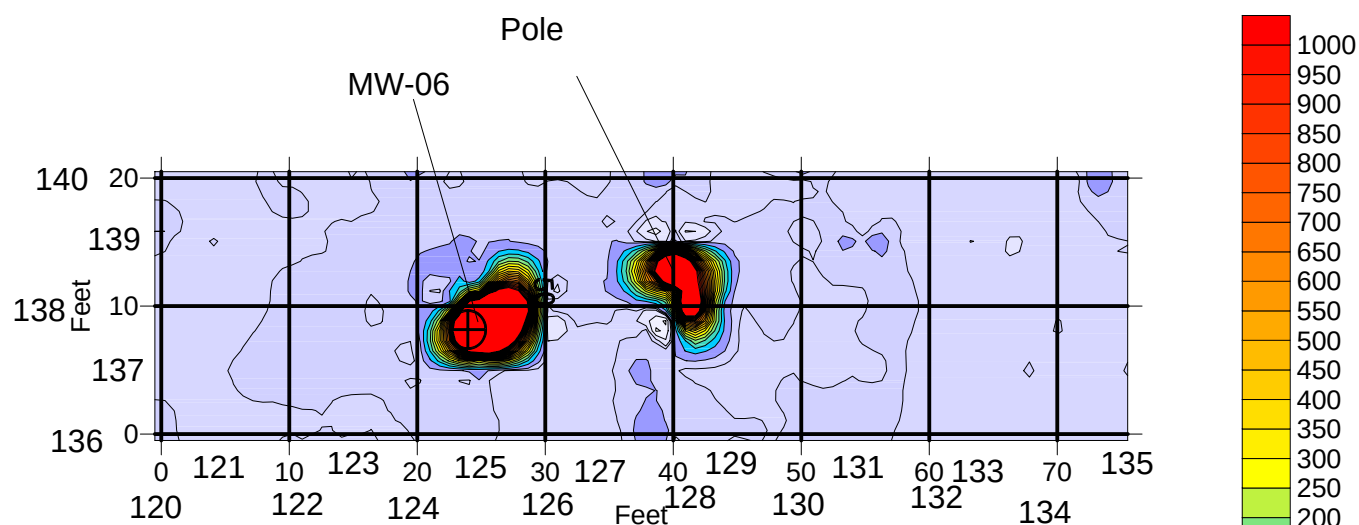
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



Files 120 to 135 represent X0 through X75 (lines head North)
Files 136 to 140 represent Y0 through Y20 (lines head East)

millivolts



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-34 located at [65,10]
Soil Boring 4-SB-36 located at [38,12]
Soil Boring 4-SB-38 located at [11,11]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

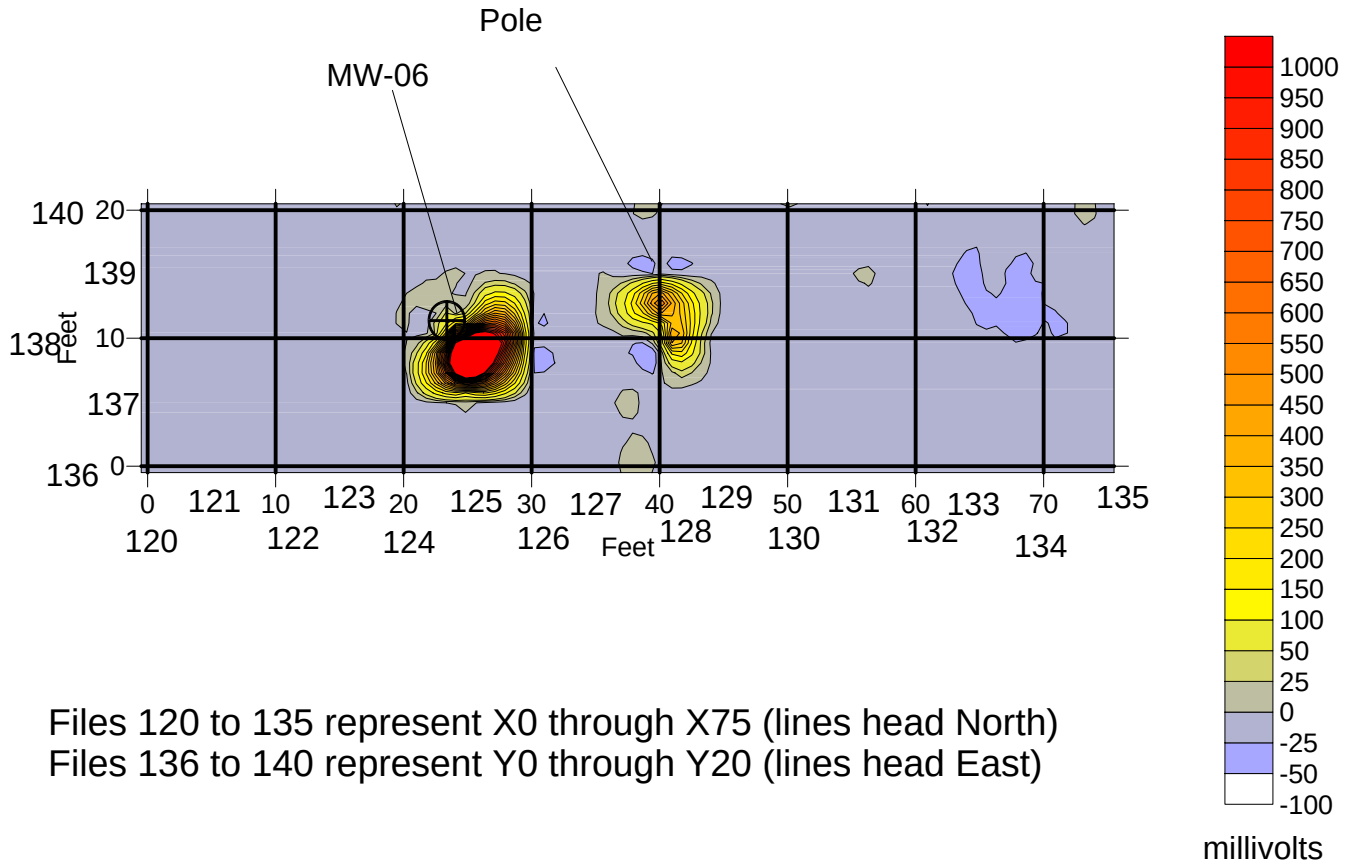
ARM Geophysics

SOIL BORING 4-SB-34, 36, 38

SCALE: 1" = 15'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 4-SB-34 located at [65,10]
Soil Boring 4-SB-36 located at [38,12]
Soil Boring 4-SB-38 located at [11,11]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

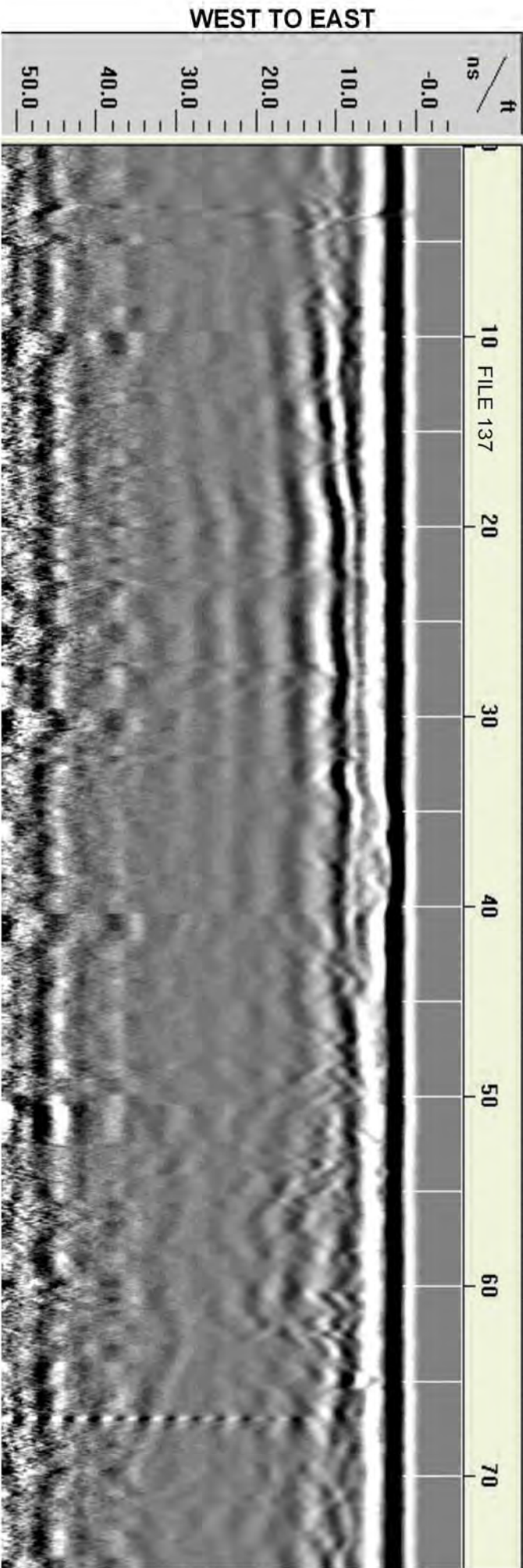
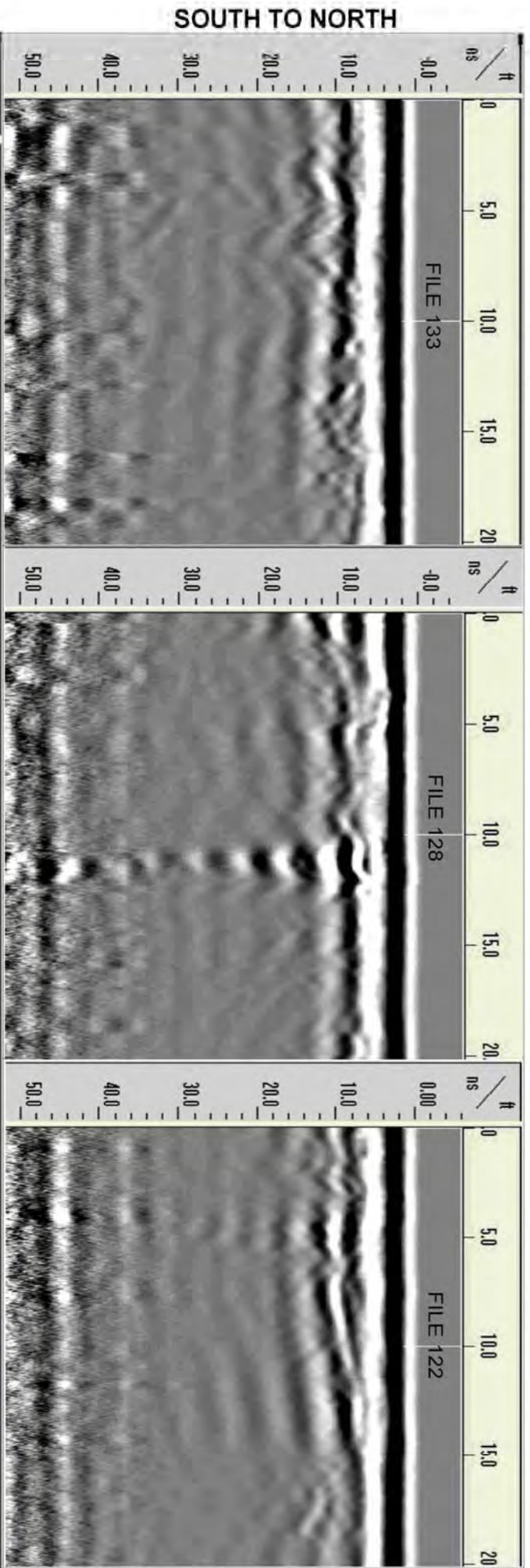
ARM Geophysics

SOIL BORING 4-SB-34, 36, 38

SCALE: 1" = 15'

June 22, 2007

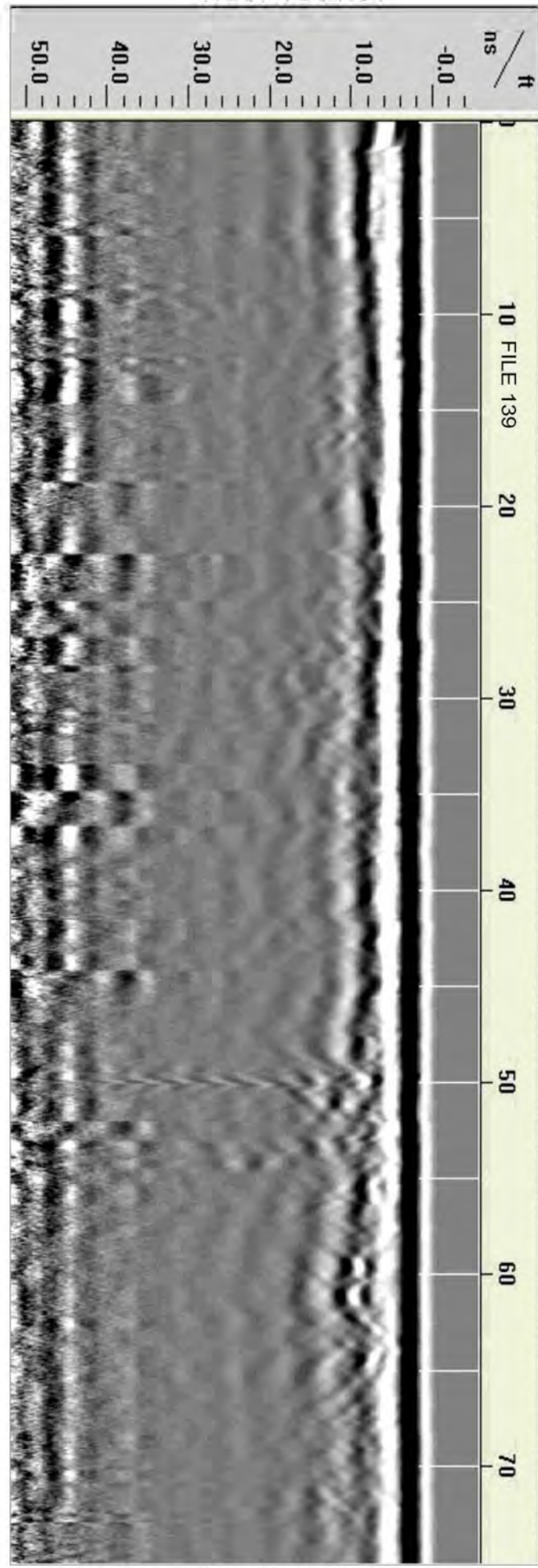
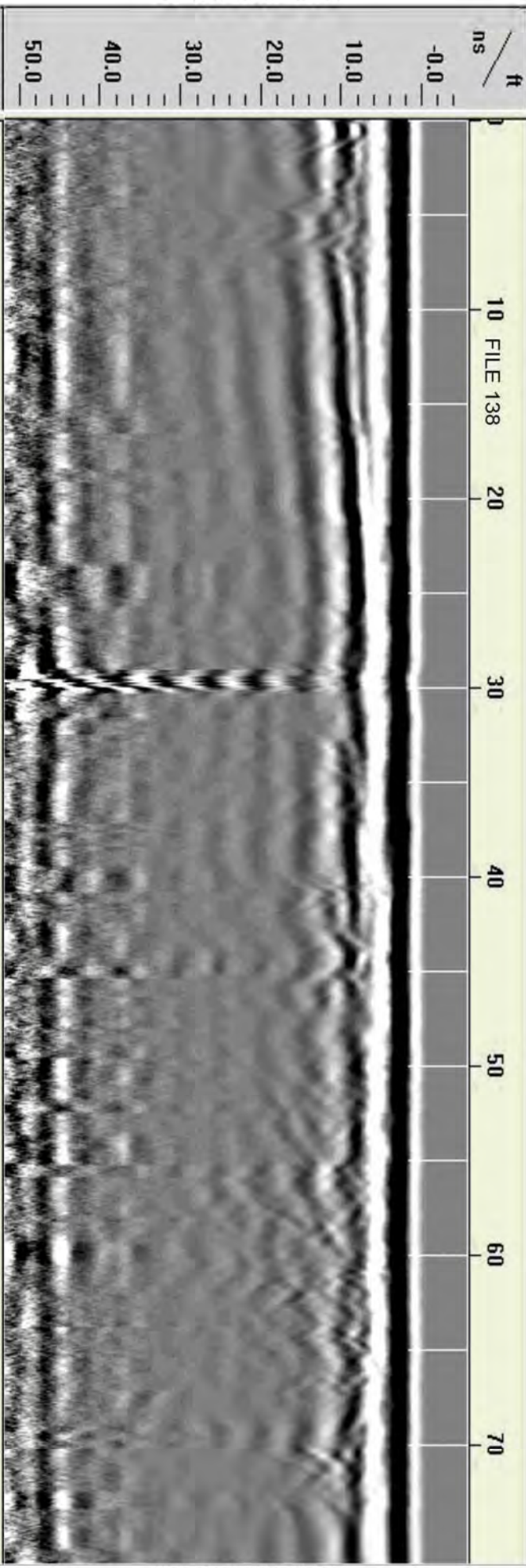
Soil Boring 4-SB-34_36_38



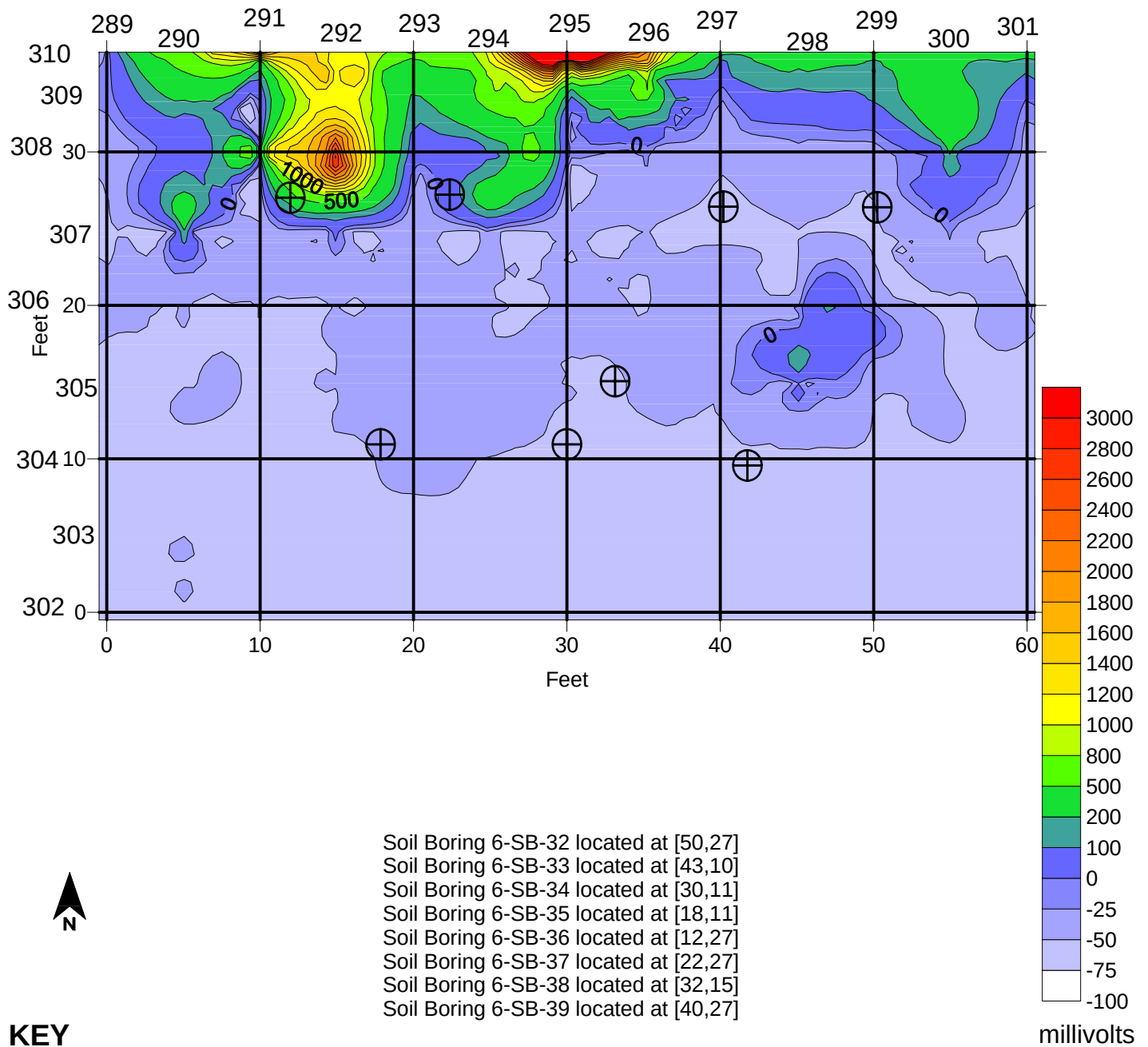
SOUTH TO NORTH

WEST TO EAST

Soil Boring 4-SB-34_36_38



Time Gate 3



MAGNETIC CONTOURS
 WITH GPR PROFILE LOCATIONS
 DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

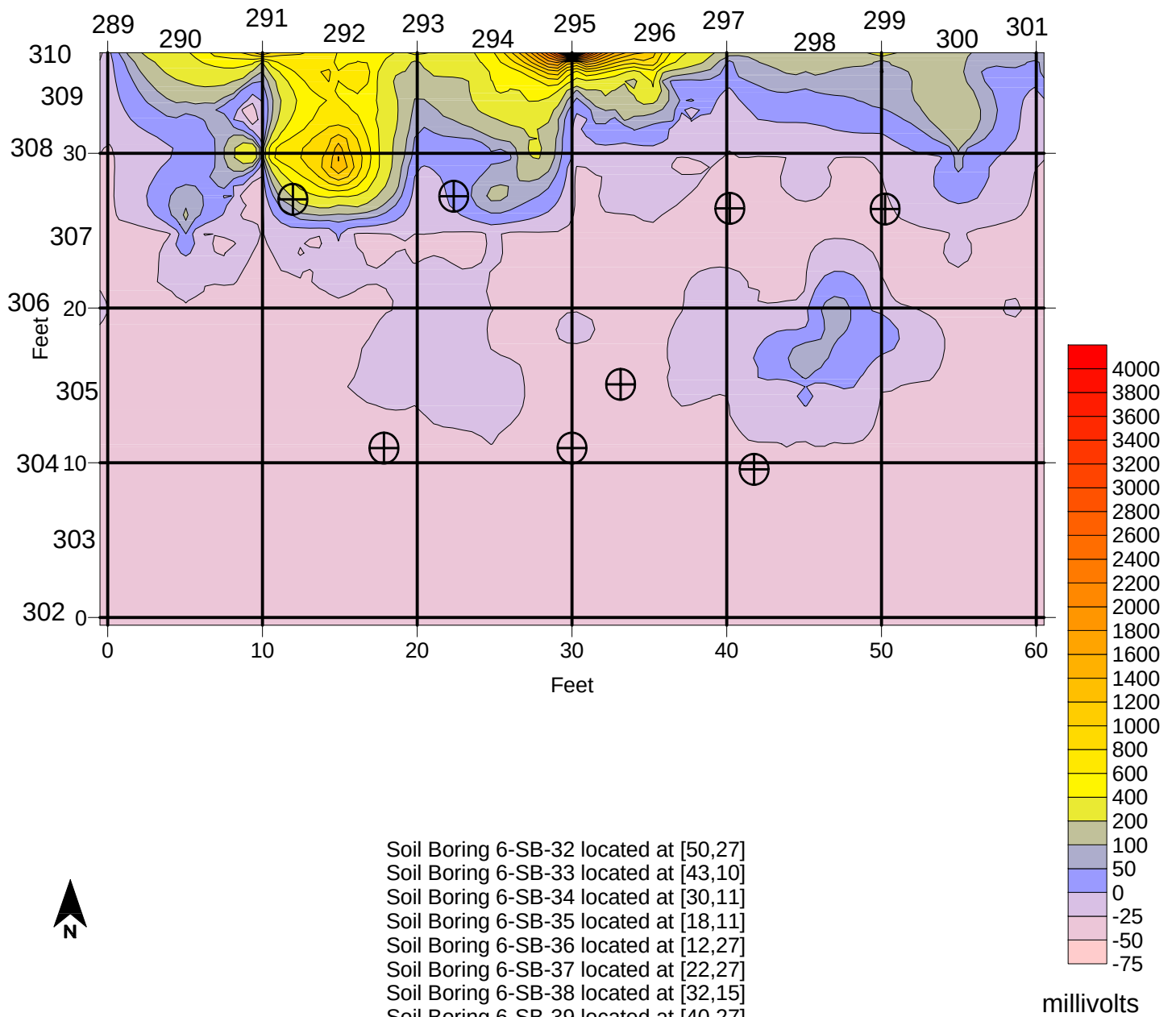
ARM Geophysics

SOIL BORING 6-SB-32-39

SCALE: 1" = 10'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

MAGNETIC CONTOURS
 WITH GPR PROFILE LOCATIONS
 DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

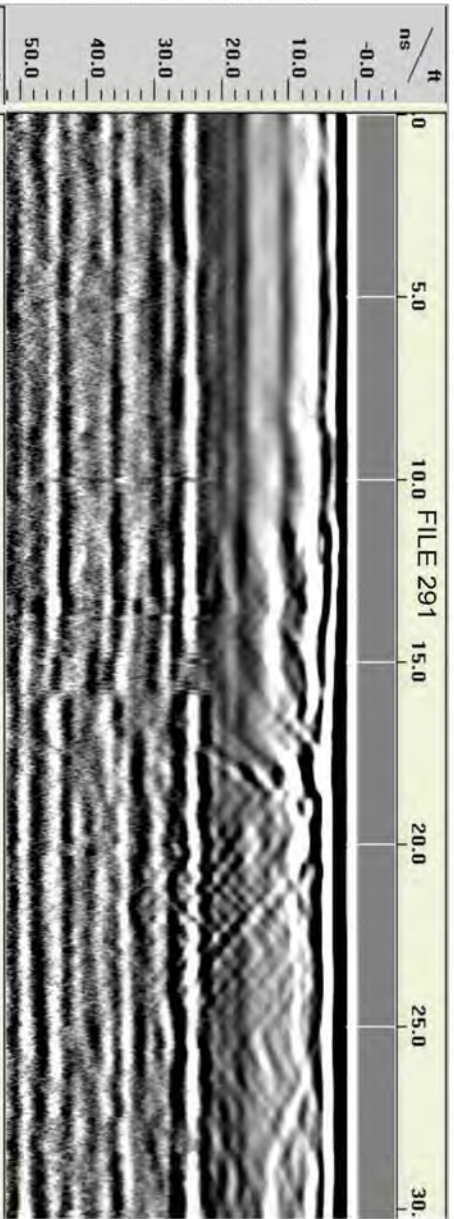
ARM Geophysics

SOIL BORING 6-SB-32-39

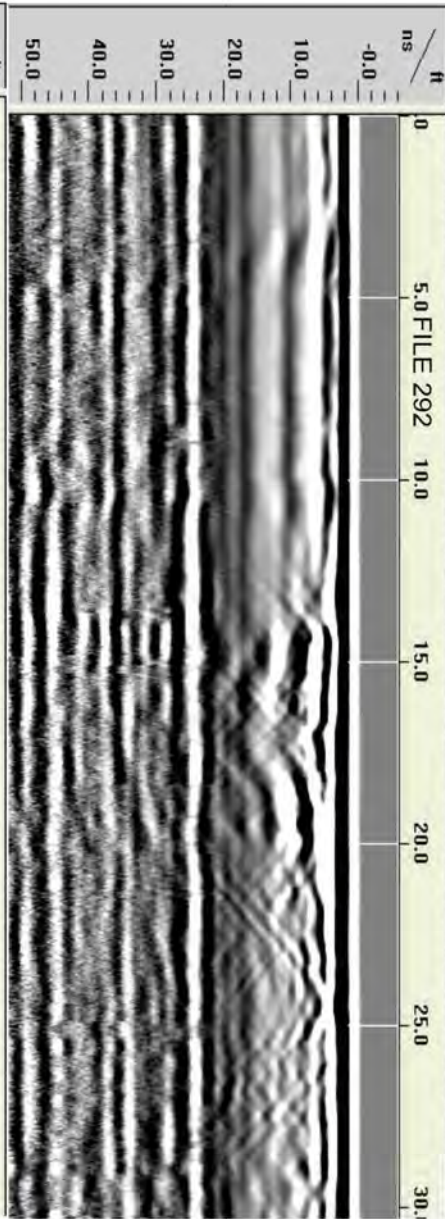
SCALE: 1" = 10'

June 22, 2007

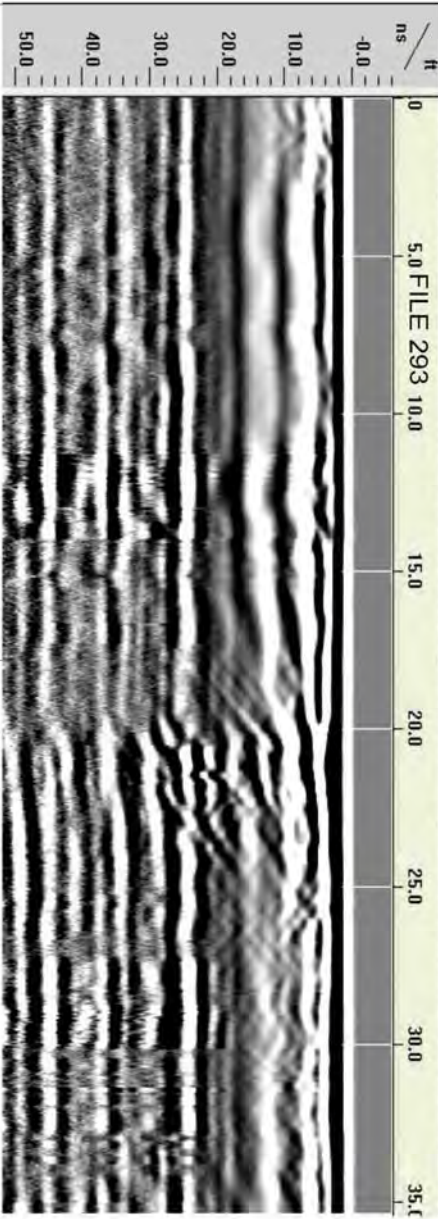
Soil Boring 6-SB-32-39



SOUTH TO NORTH

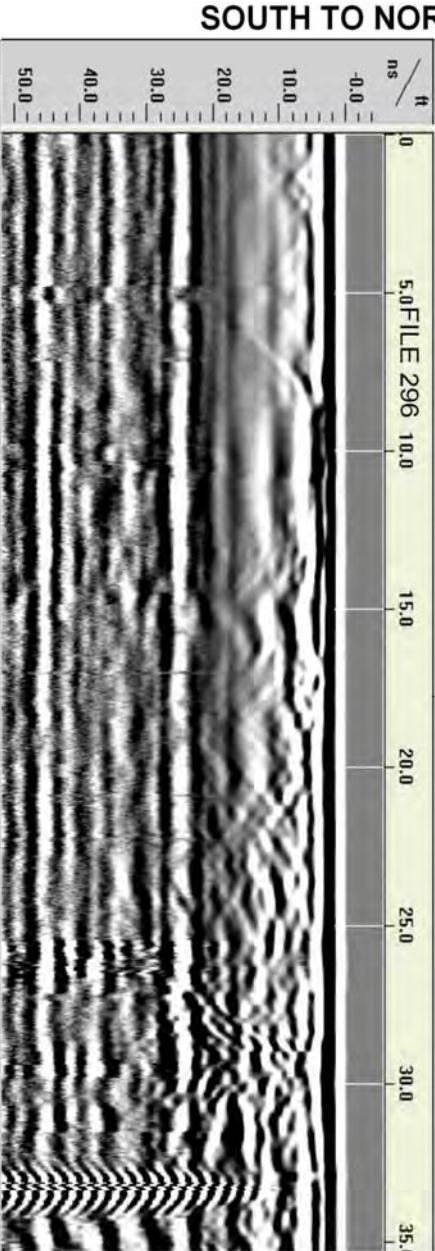
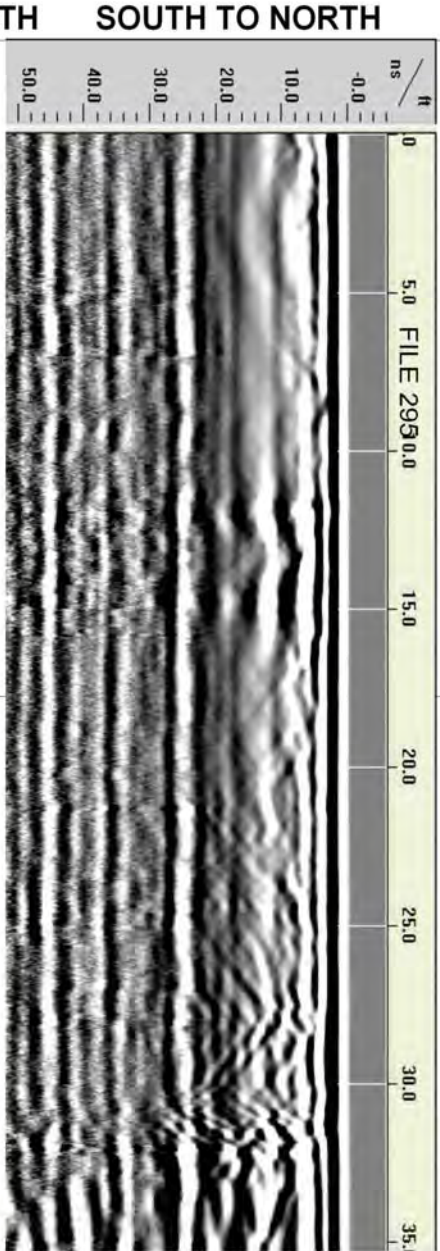
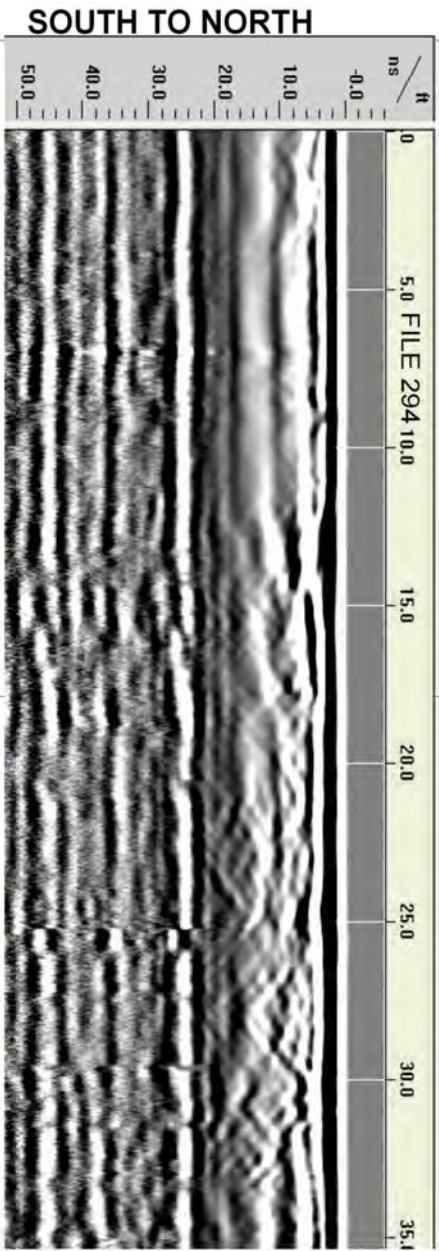


SOUTH TO NORTH



SOUTH TO NORTH

Soil Boring 6-SB-32-39

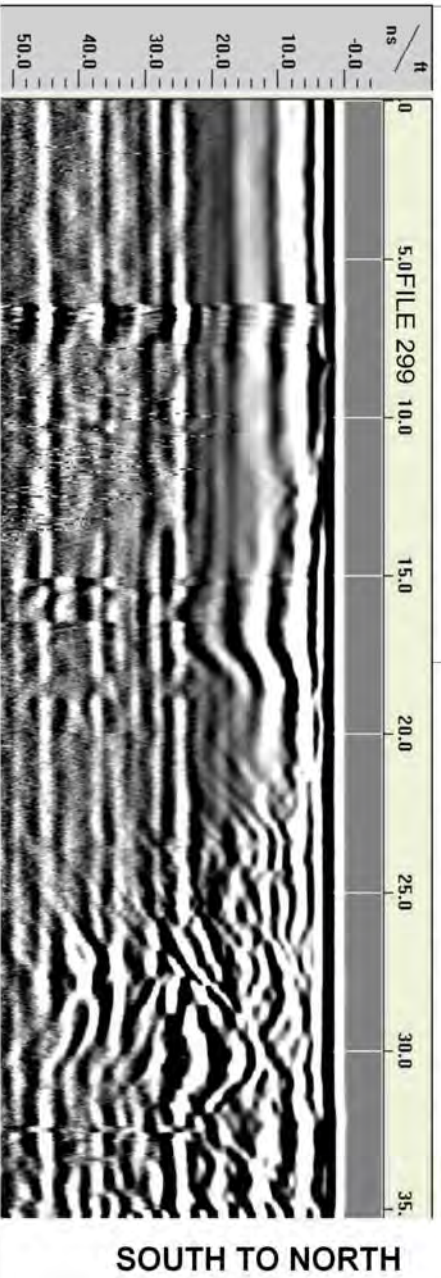
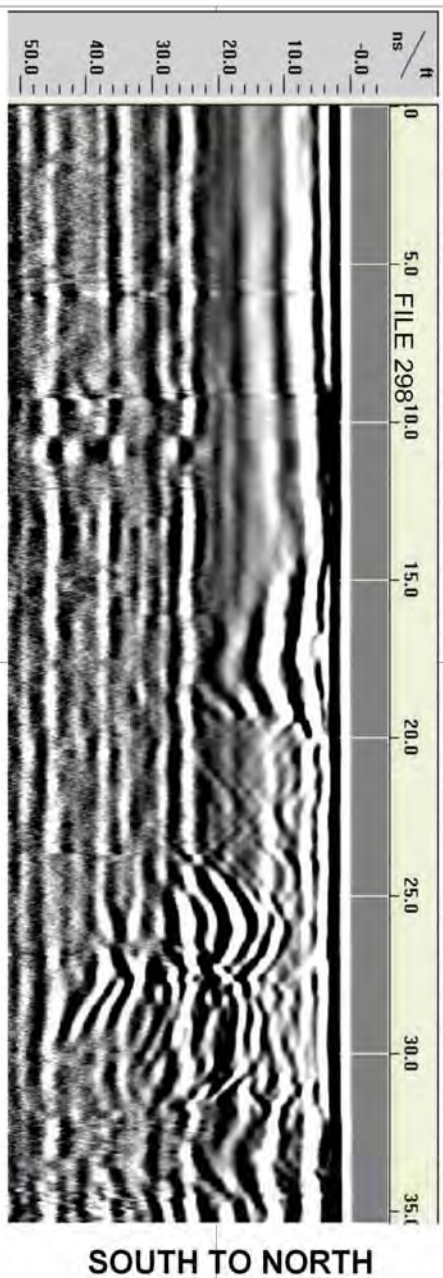
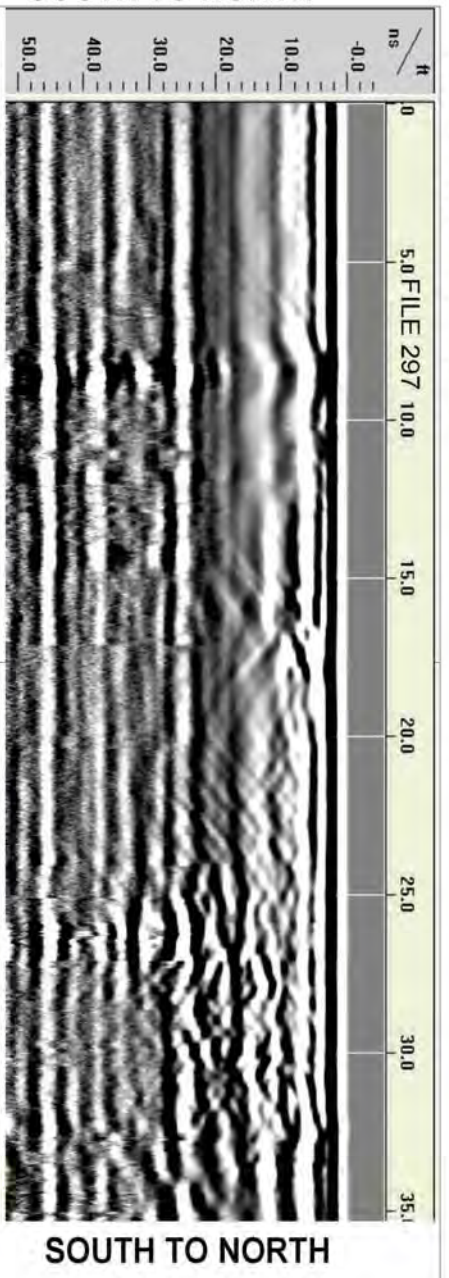


SOUTH TO NORTH

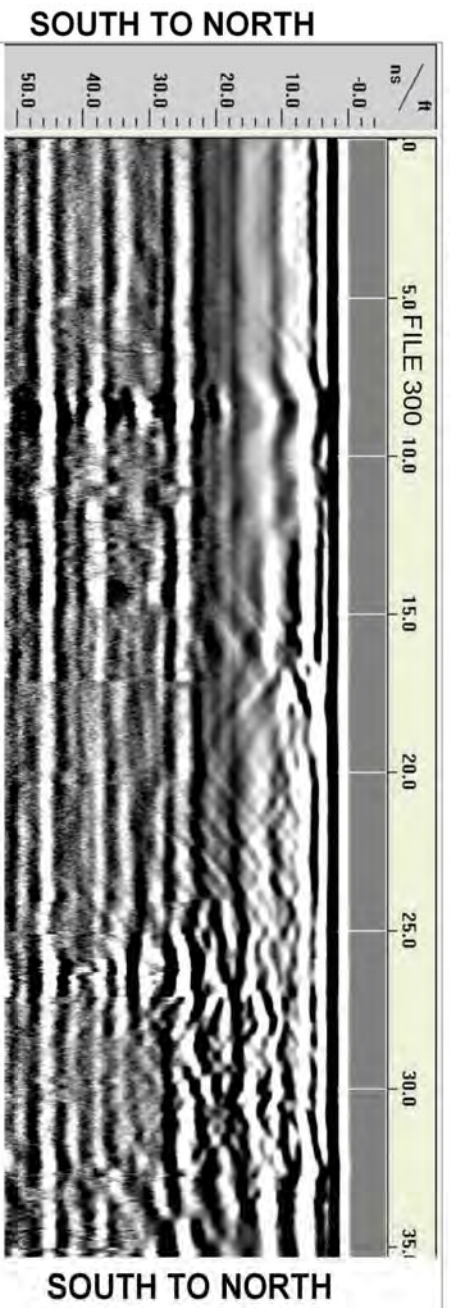
SOUTH TO NORTH

SOUTH TO NORTH

Soil Boring 6-SB-32-39

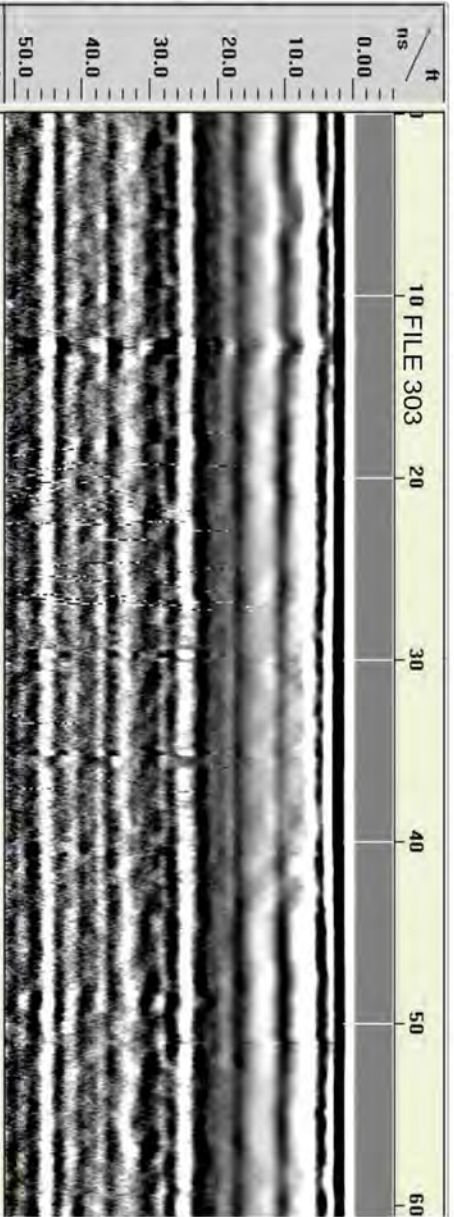


Soil Boring 6-SB-32-39

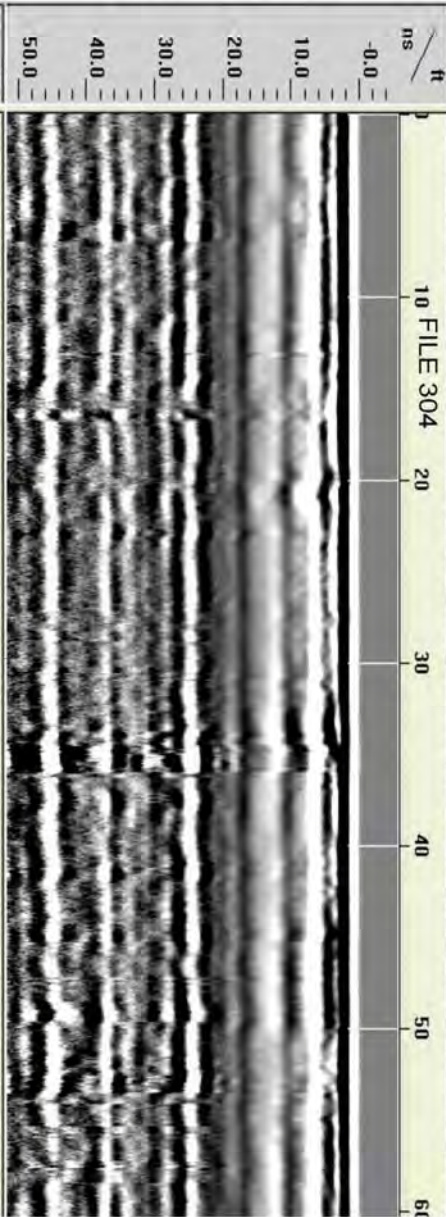


Soil Boring 6-SB-32-39

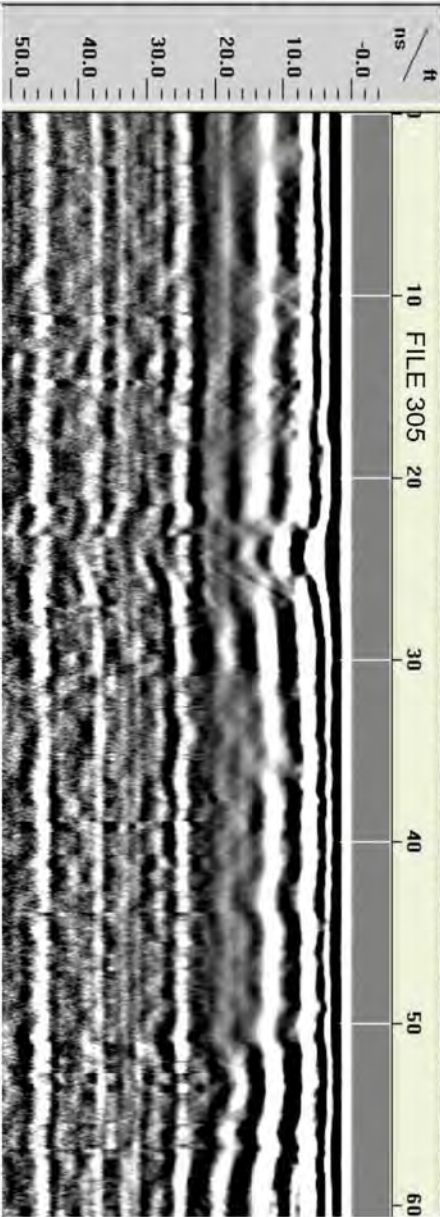
WEST TO EAST



WEST TO EAST



WEST TO EAST

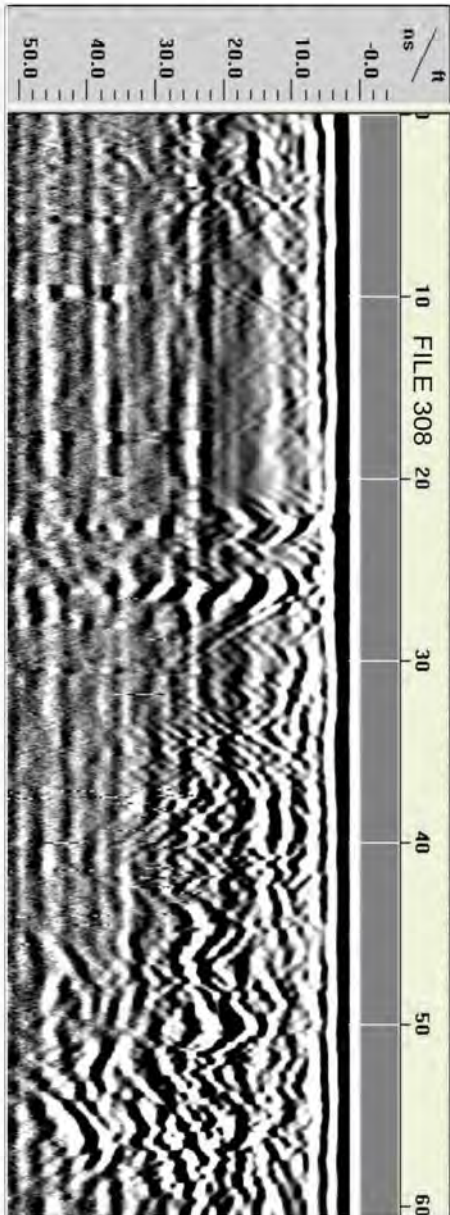
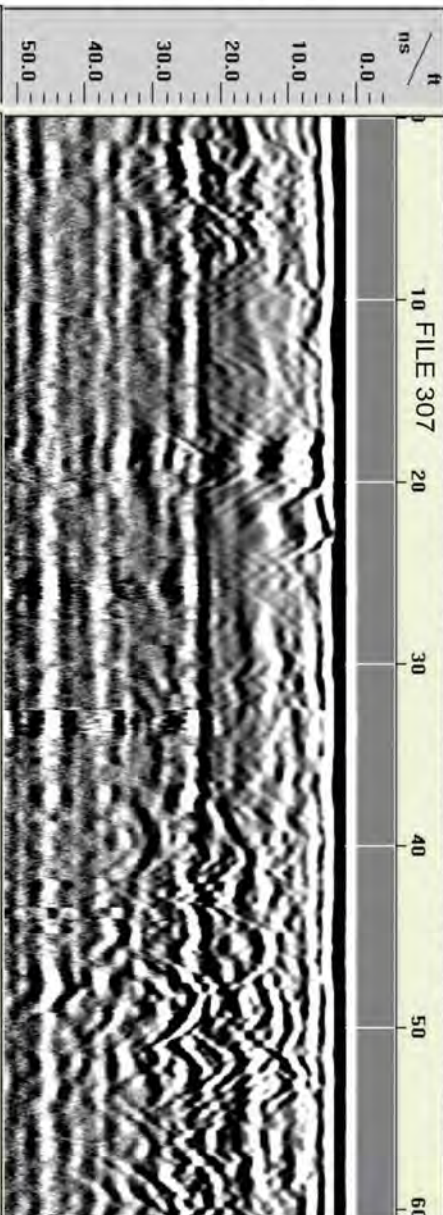
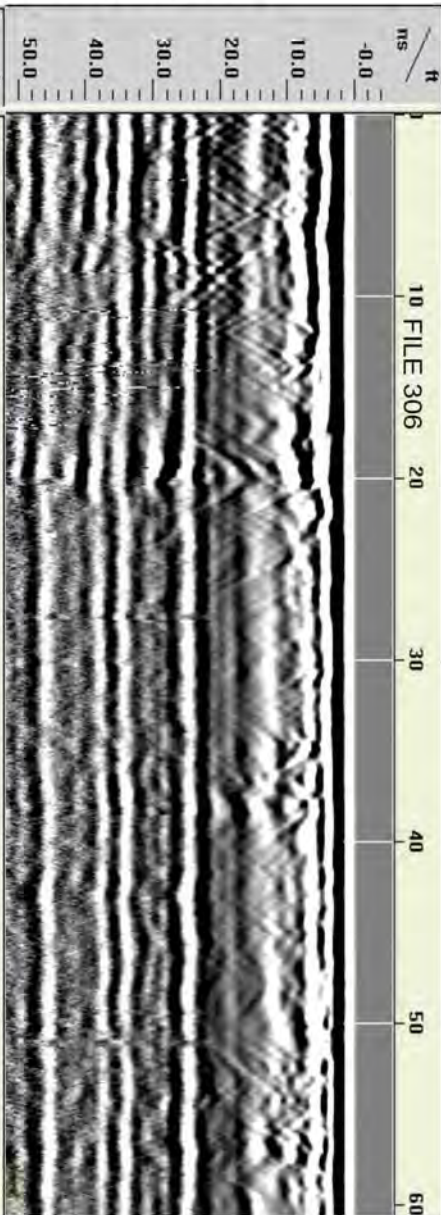


WEST TO EAST

WEST TO EAST

WEST TO EAST

Soil Boring 6-SB-32-39



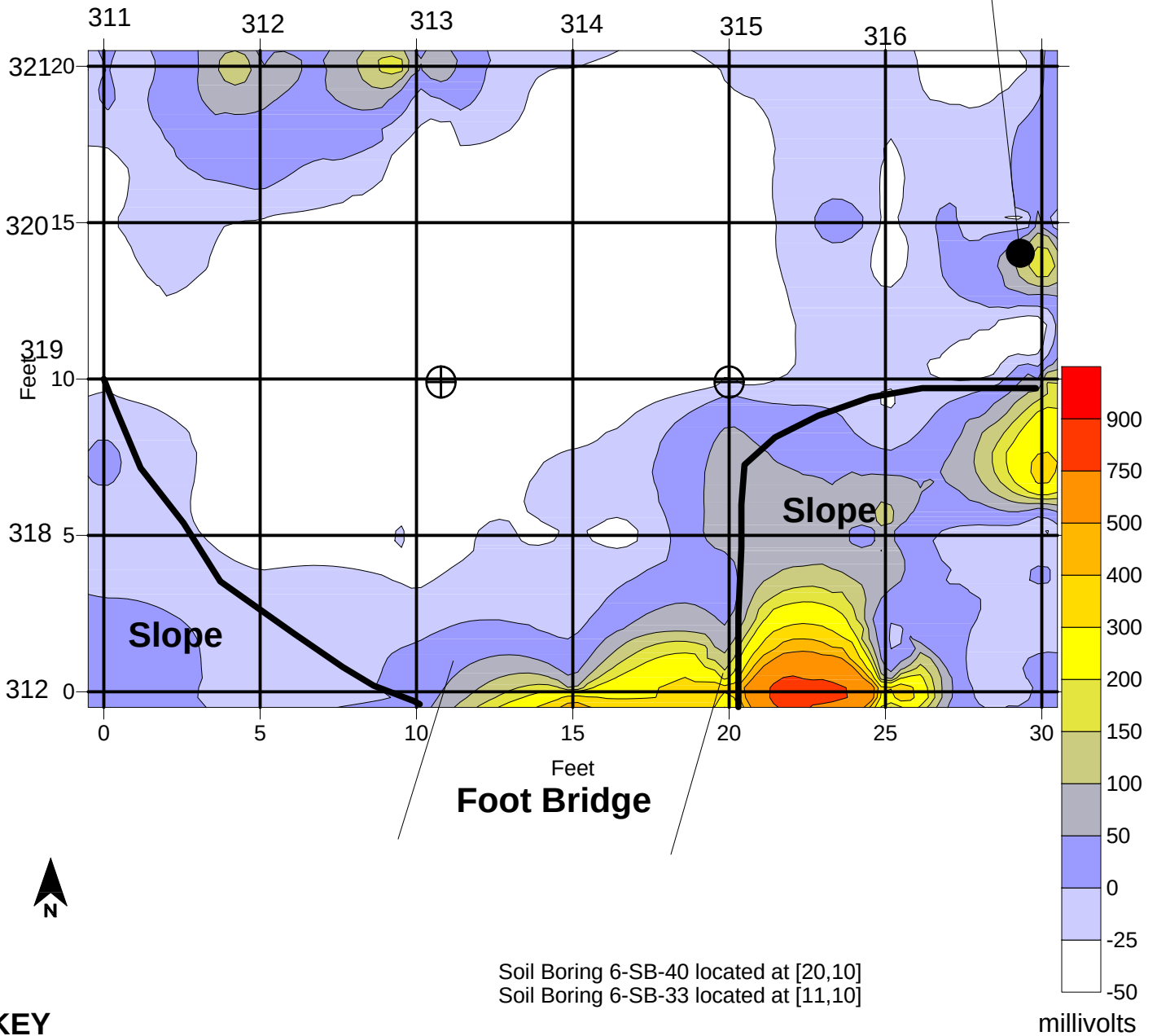
WEST TO EAST

WEST TO EAST

WEST TO EAST

Time Gate 3

Utility Pole



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

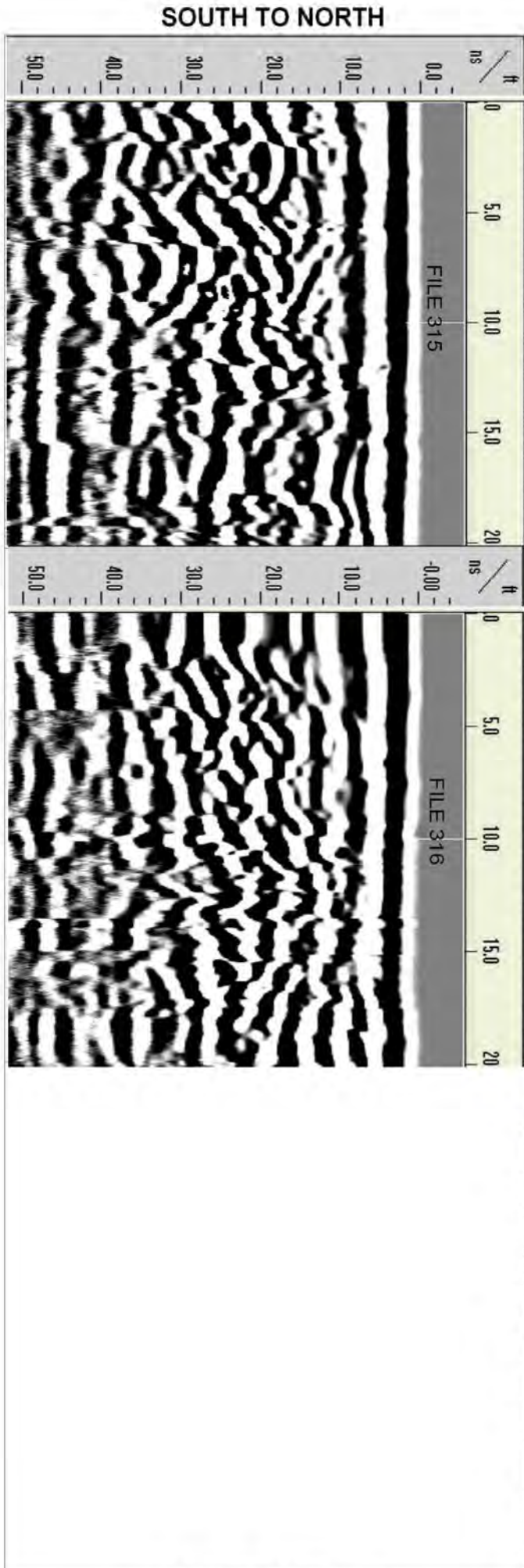
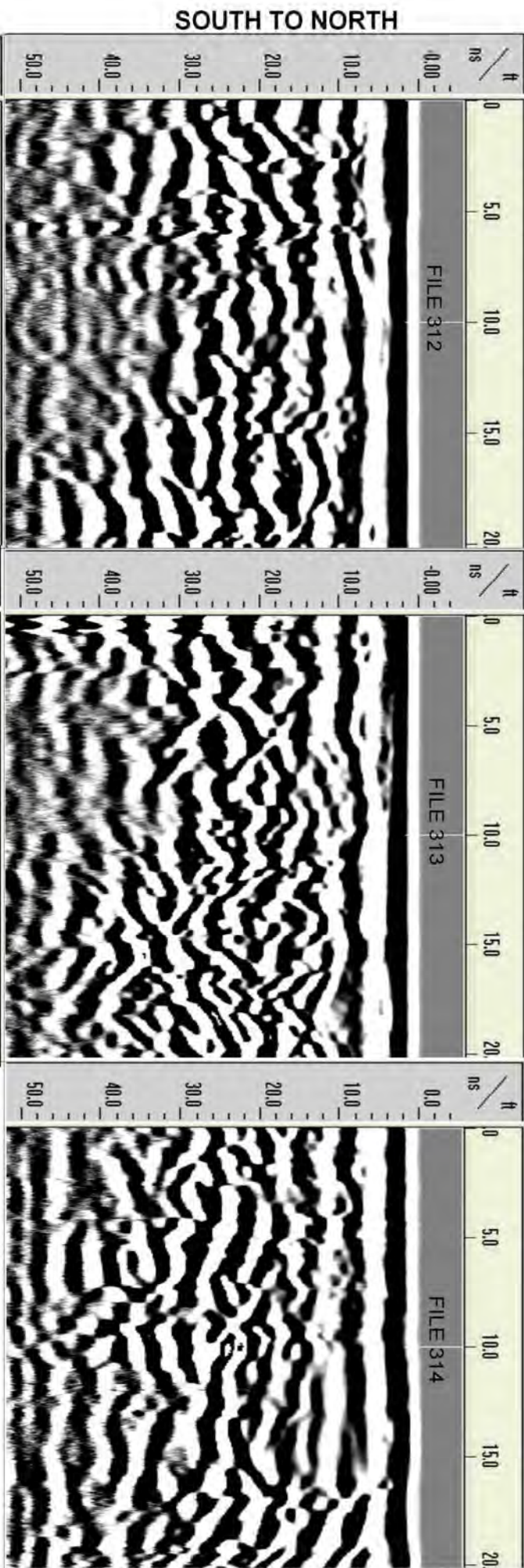
ARM Geophysics

SOIL BORING 6-SB-40 and 41

SCALE: 1" = 5'

June 22, 2007

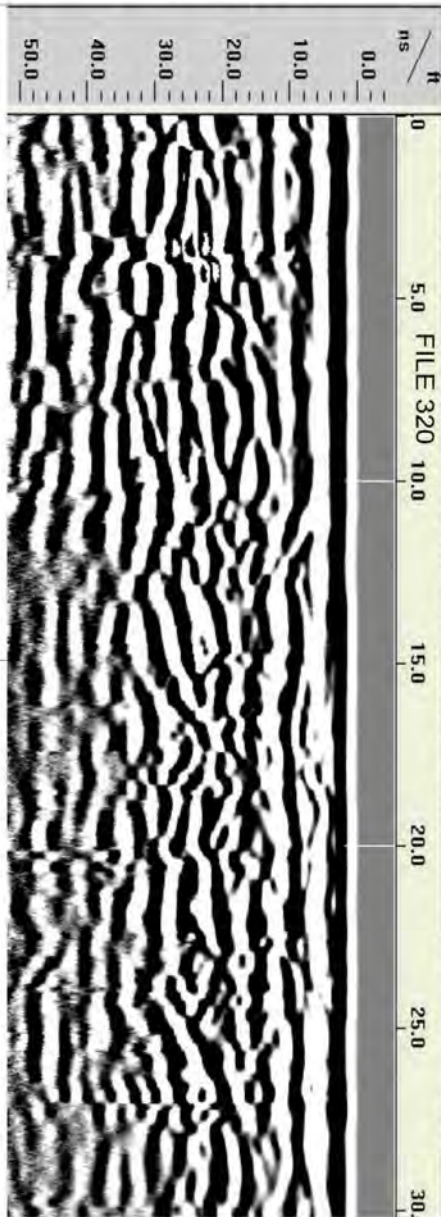
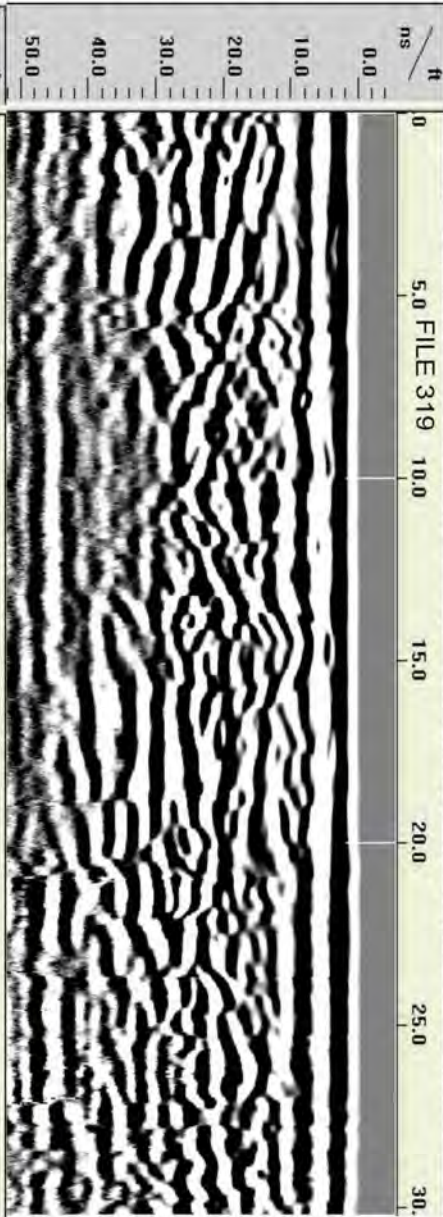
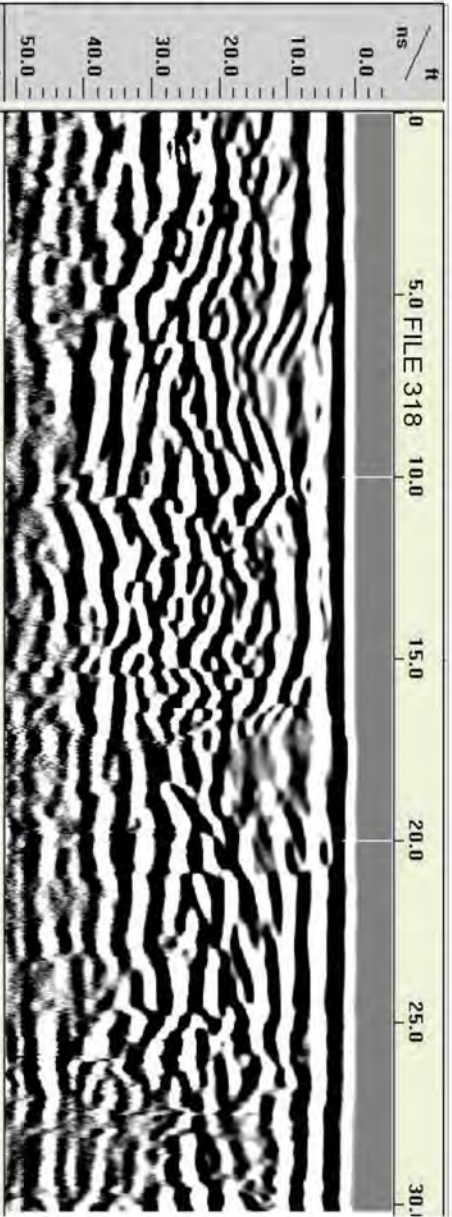
Soil Boring 6-SB-40-41



SOUTH TO NORTH

SOUTH TO NORTH

Soil Boring 6-SB-40-41



WEST TO EAST

WEST TO EAST

WEST TO EAST

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-01

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-01 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the refrigerators and air conditioning units. The EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

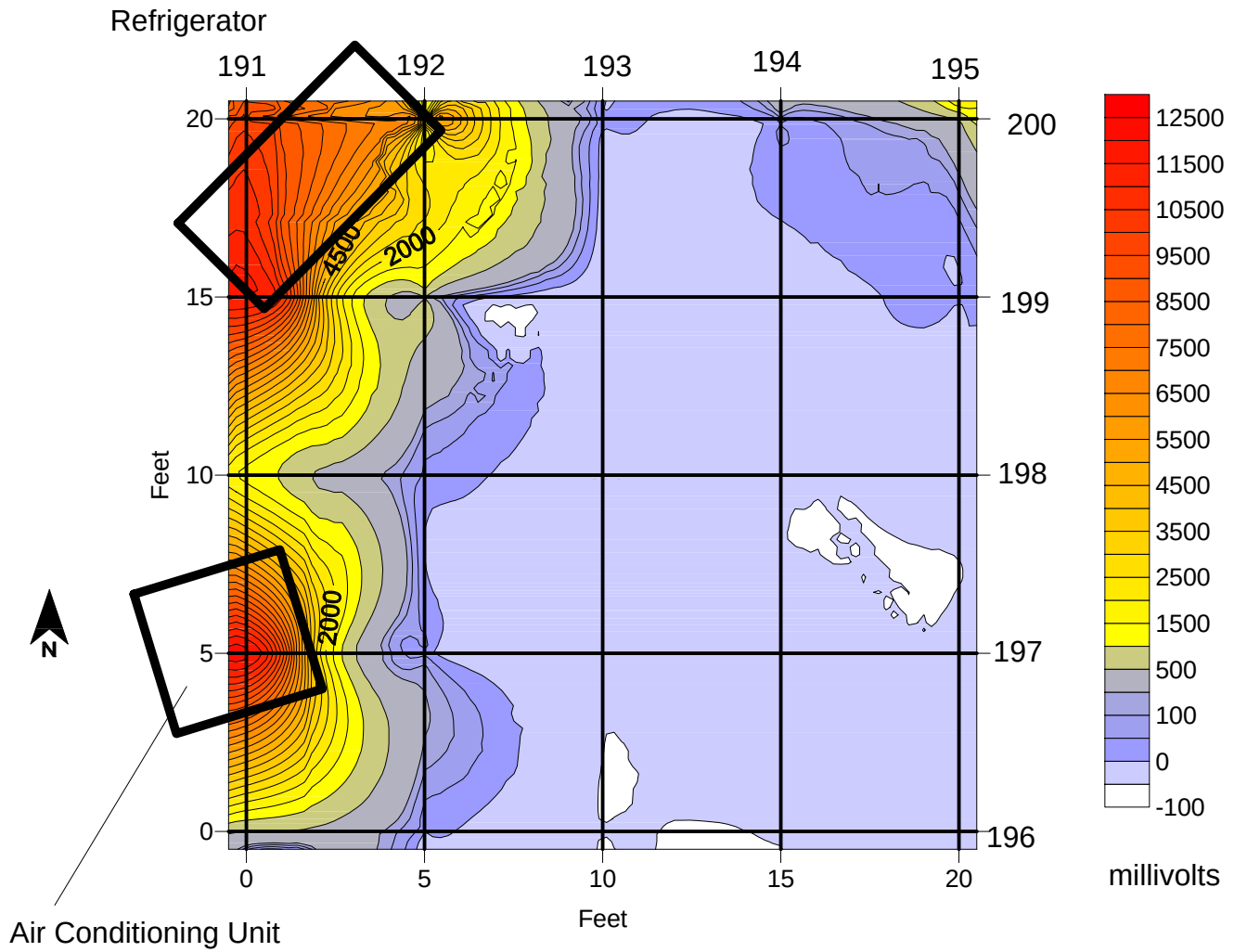
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however the anomalies do not appear to have characteristics of possible utilities.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-01
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

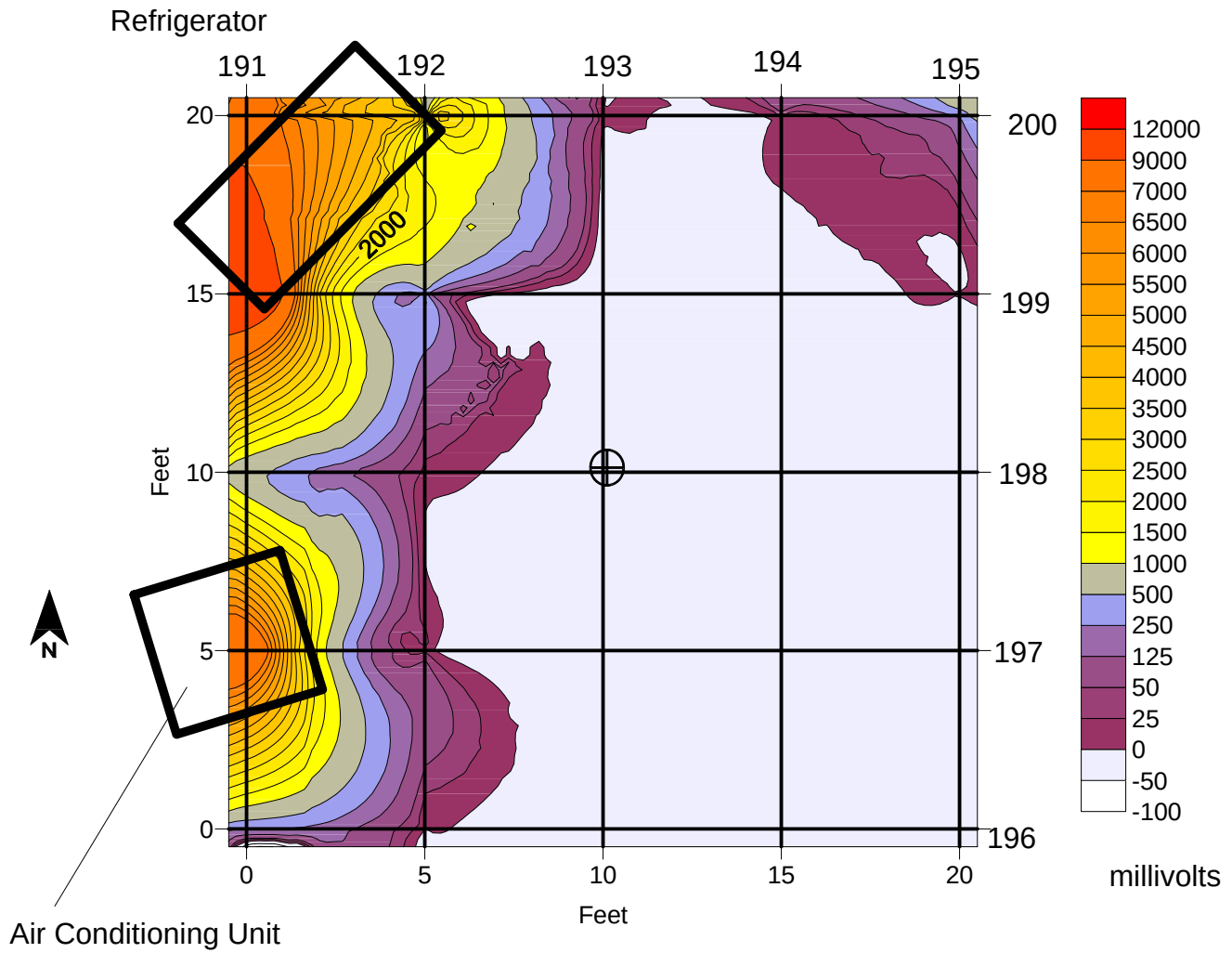
ARM Geophysics

SOIL BORING 7-SB-01

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-01
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

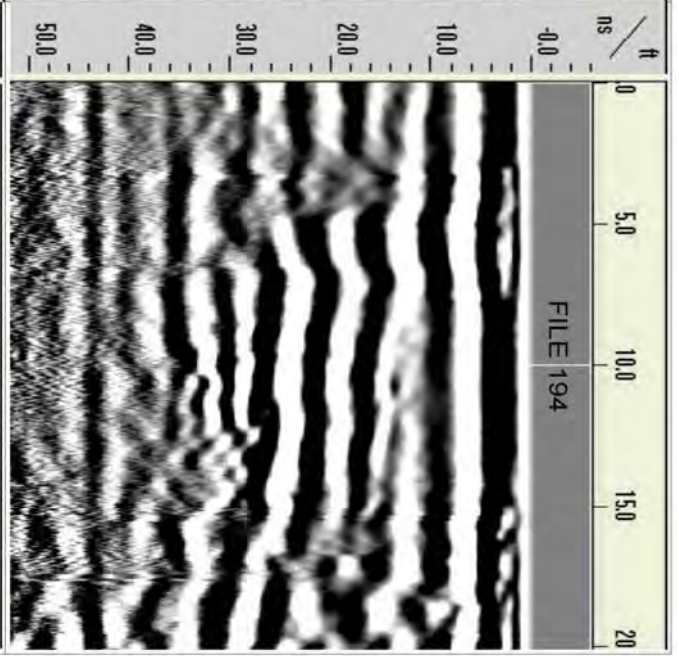
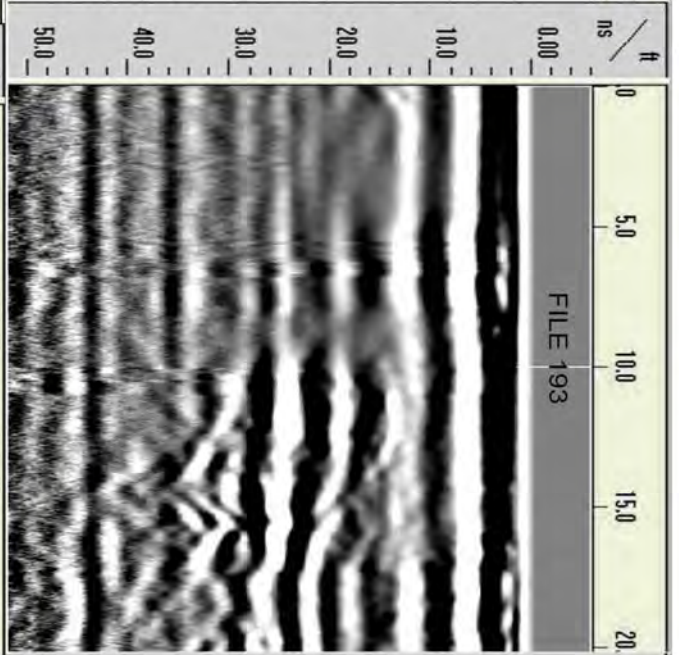
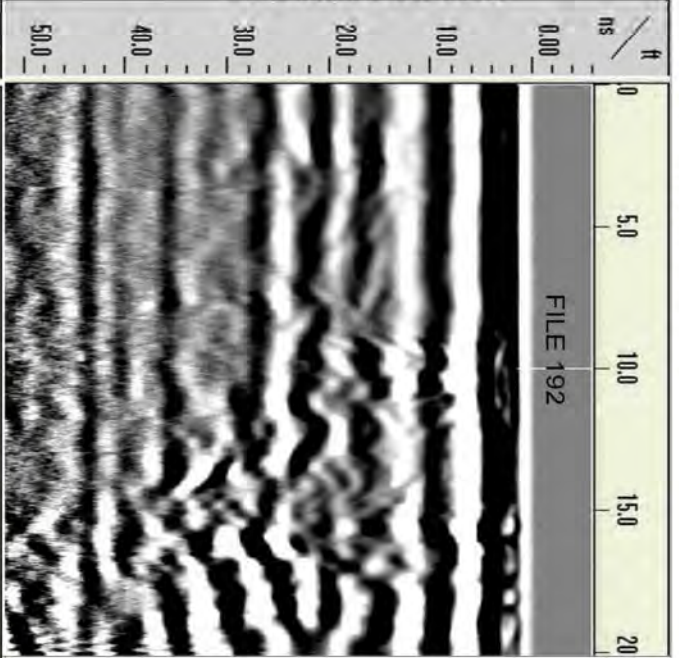
SOIL BORING 7-SB-01

SCALE: 1" = 5'

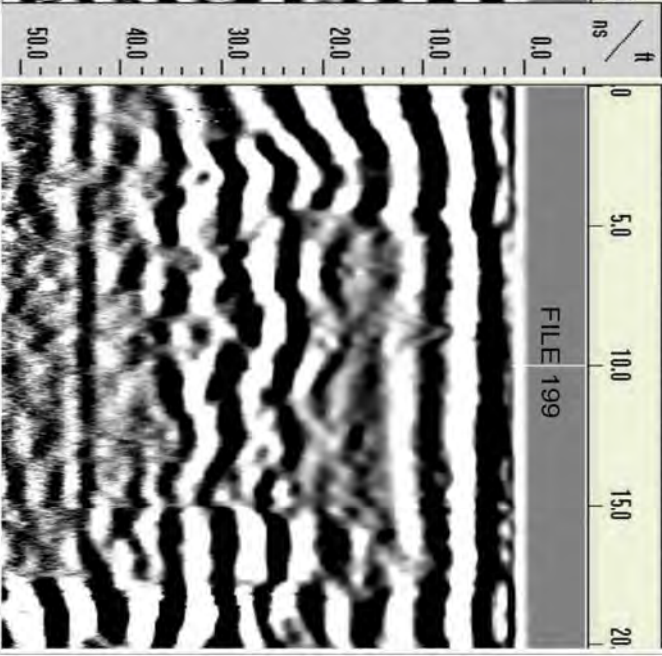
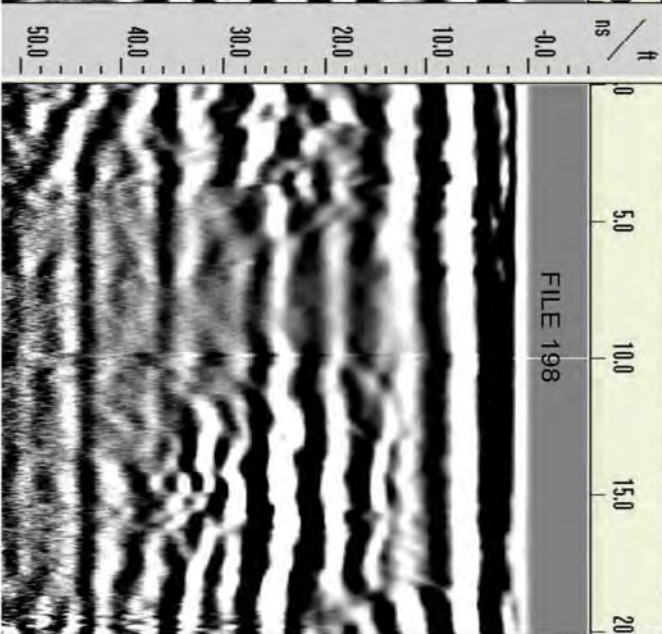
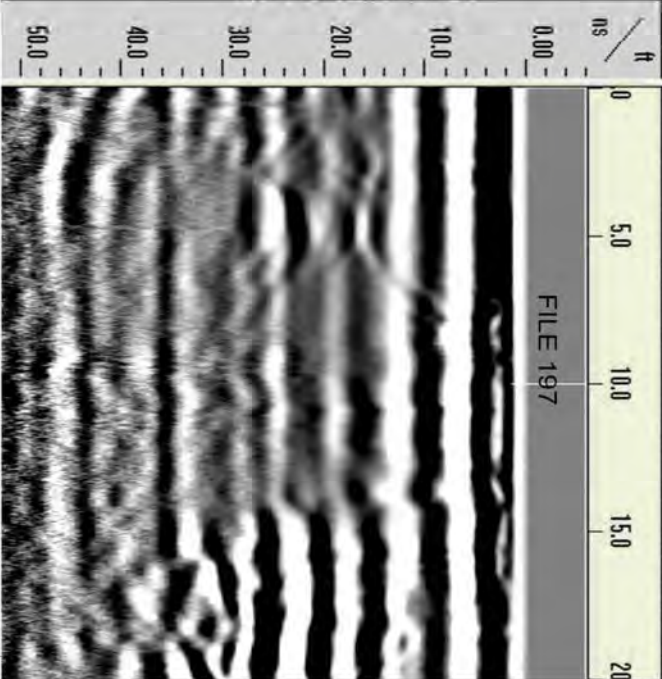
June 22, 2007

Soil Boring 7-SB-01

SOUTH TO NORTH



WEST TO EAST



WEST TO EAST

SOUTH TO NORTH

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-02

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-02 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=15). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

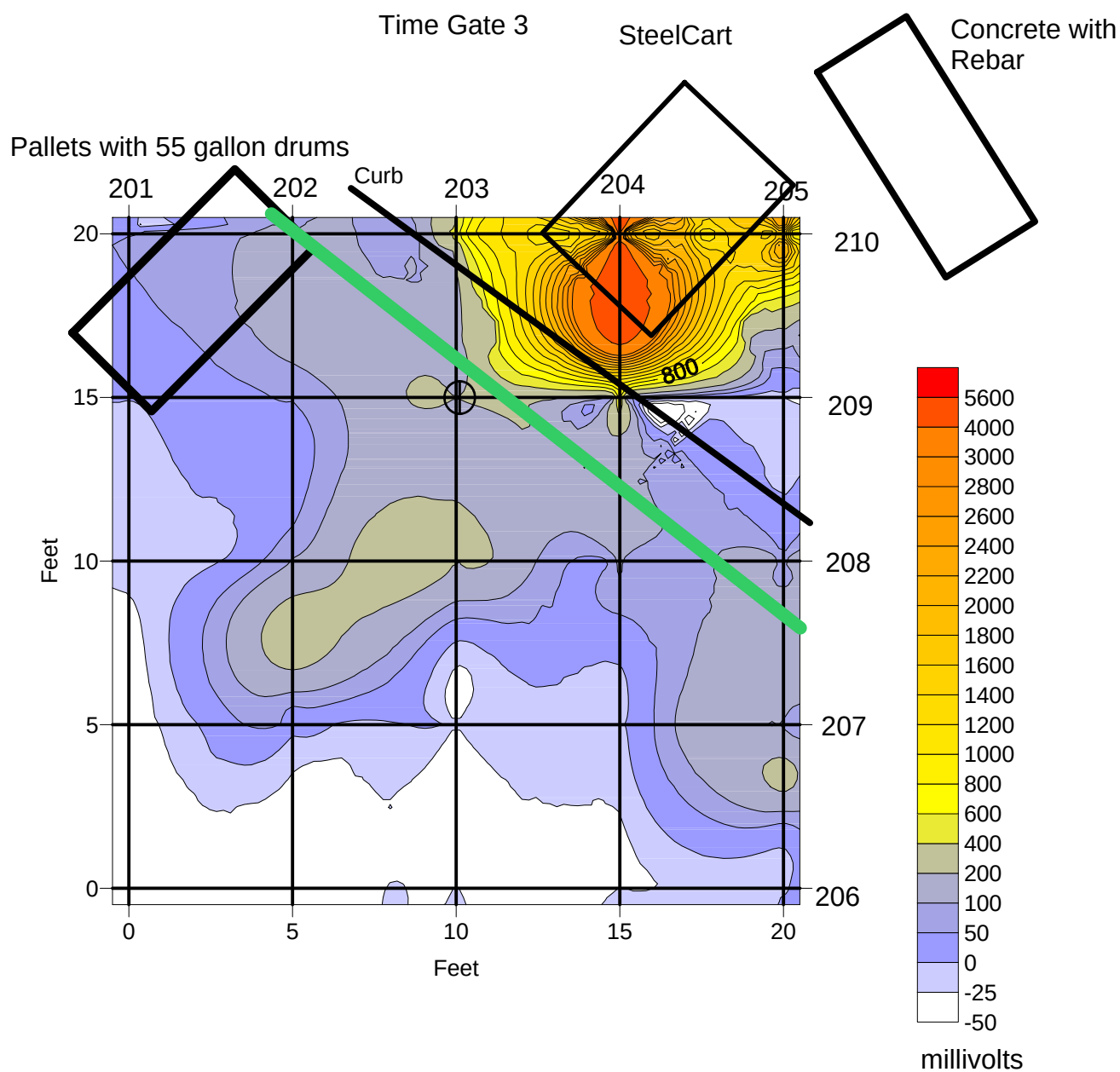
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the pallets with 55-gallon drums, the steel cart, and the concrete pad with rebar reinforcement. In addition there is a curb that transects the site from the north central to the east central sections. The EM61 data in this area is higher than standard but the EM61 did detect an anomaly with characteristics similar to a possible utility (elongated and narrow). This anomaly is also depicted in the GPR data.

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of an anomaly with characteristics similar to an utility, possibly a sewer line. This line is within several feet of the proposed boring location.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



KEY

- 52500 magnetic contour line
- sewer line
- 043 GPR line with file number at start of profile

Soil Boring 7-SB-02
located at [10,15]

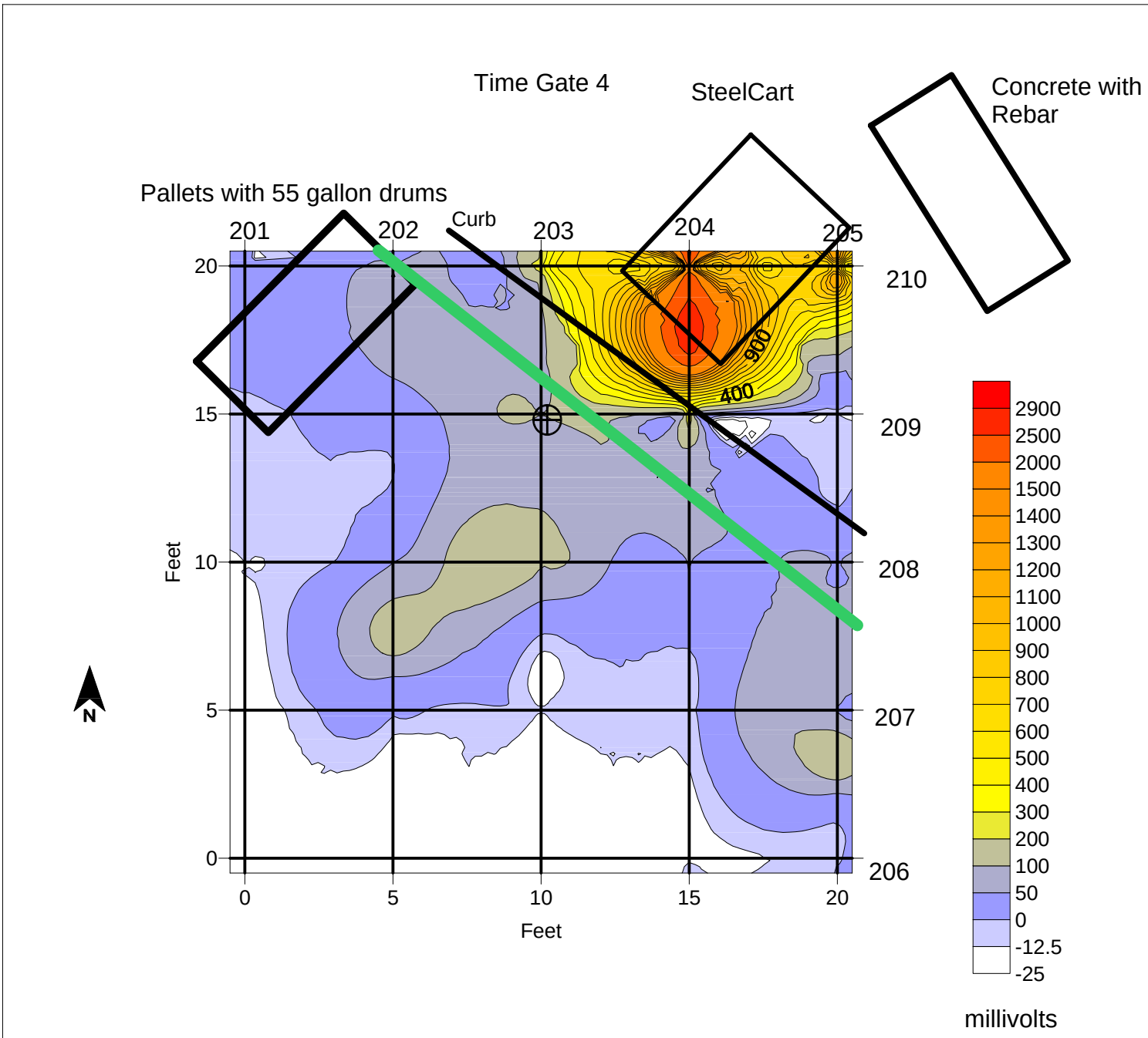
MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

SOIL BORING 7-SB-02

SCALE: 1" = 5'

June 22, 2007



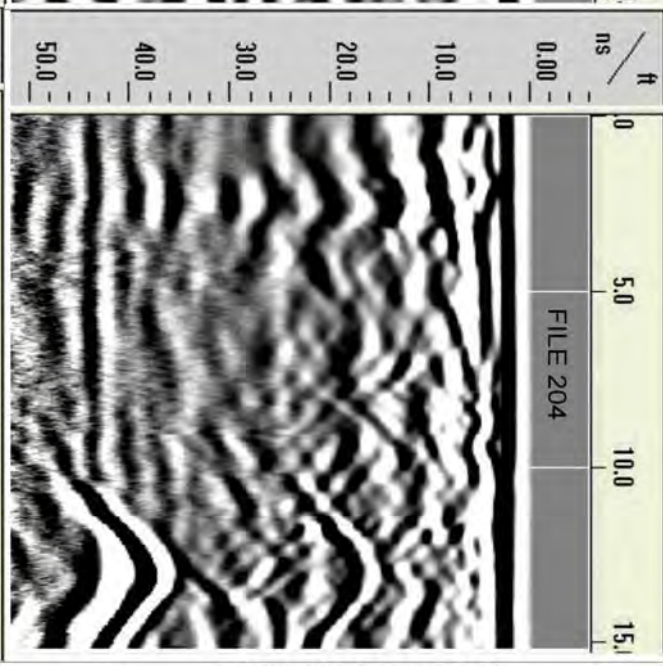
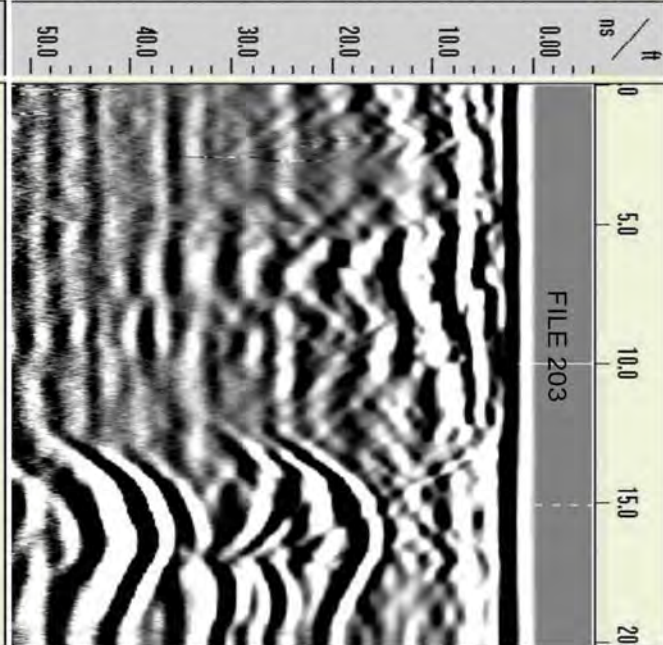
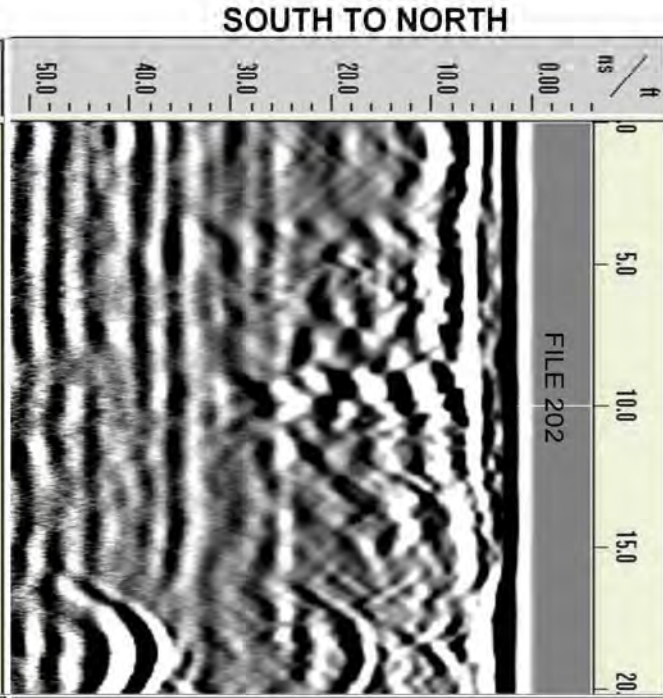
KEY

- 52500 magnetic contour line
- sewer line
- 043 GPR line with file number at start of profile

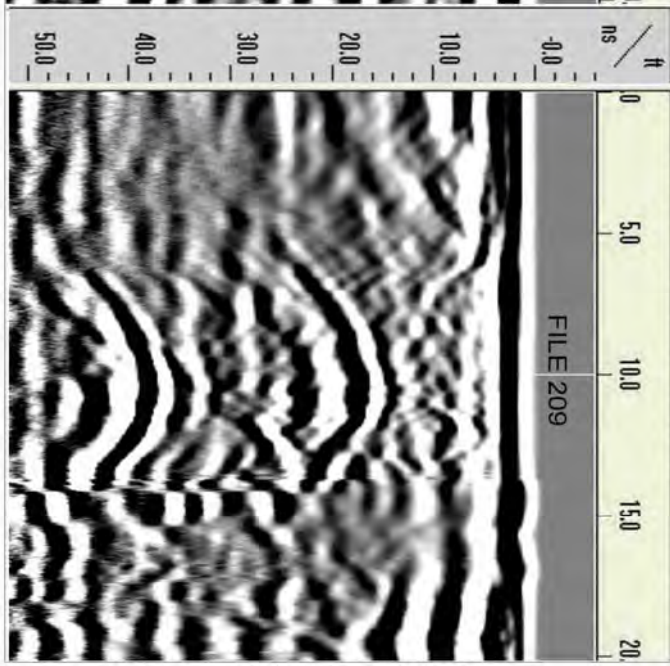
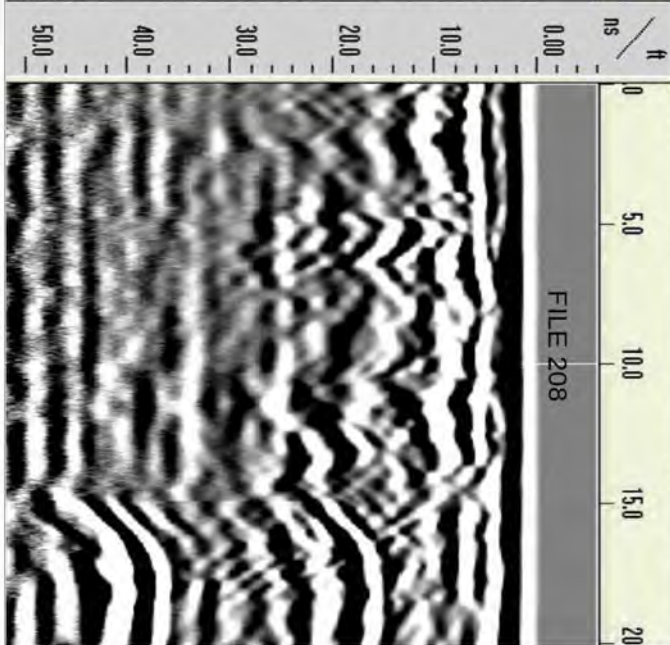
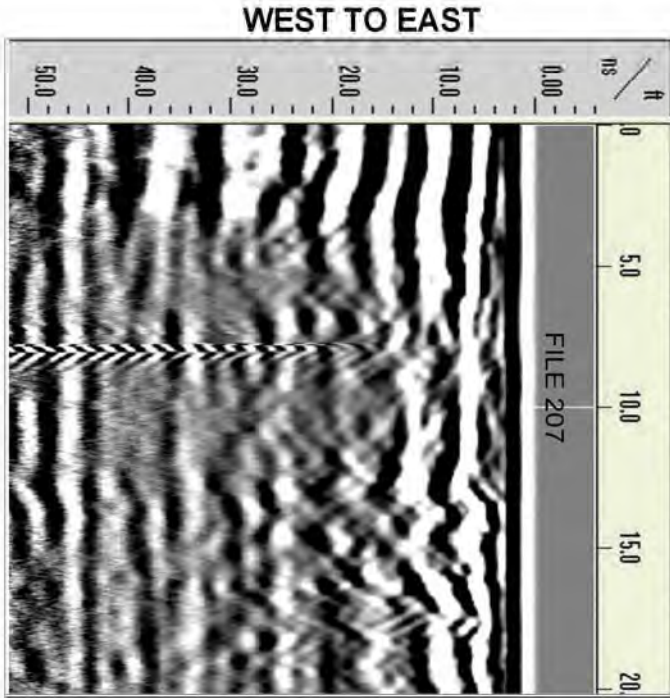
Soil Boring 7-SB-02
located at [10,15]

MAGNETIC CONTOURS WITH GPR PROFILE LOCATIONS DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY		ARM Geophysics	
SOIL BORING 7-SB-02		SCALE: 1" = 5'	June 22, 2007

Soil Boring 7-SB-02



SOUTH TO NORTH



WEST TO EAST

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-03

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-03 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 10 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). The standard grid was not established due to the presence of the air conditioning units and old refrigerator motors along the eastern and southern sections. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the air conditioning units and refrigerator motors. The EM61 data in this area is higher than standard but the EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of high intensity reflections within the subsurface. This may be due to a shallow water table, shallow rock, or significant amounts of subsurface debris. However the anomalies do not appear to have characteristics of possible utilities.

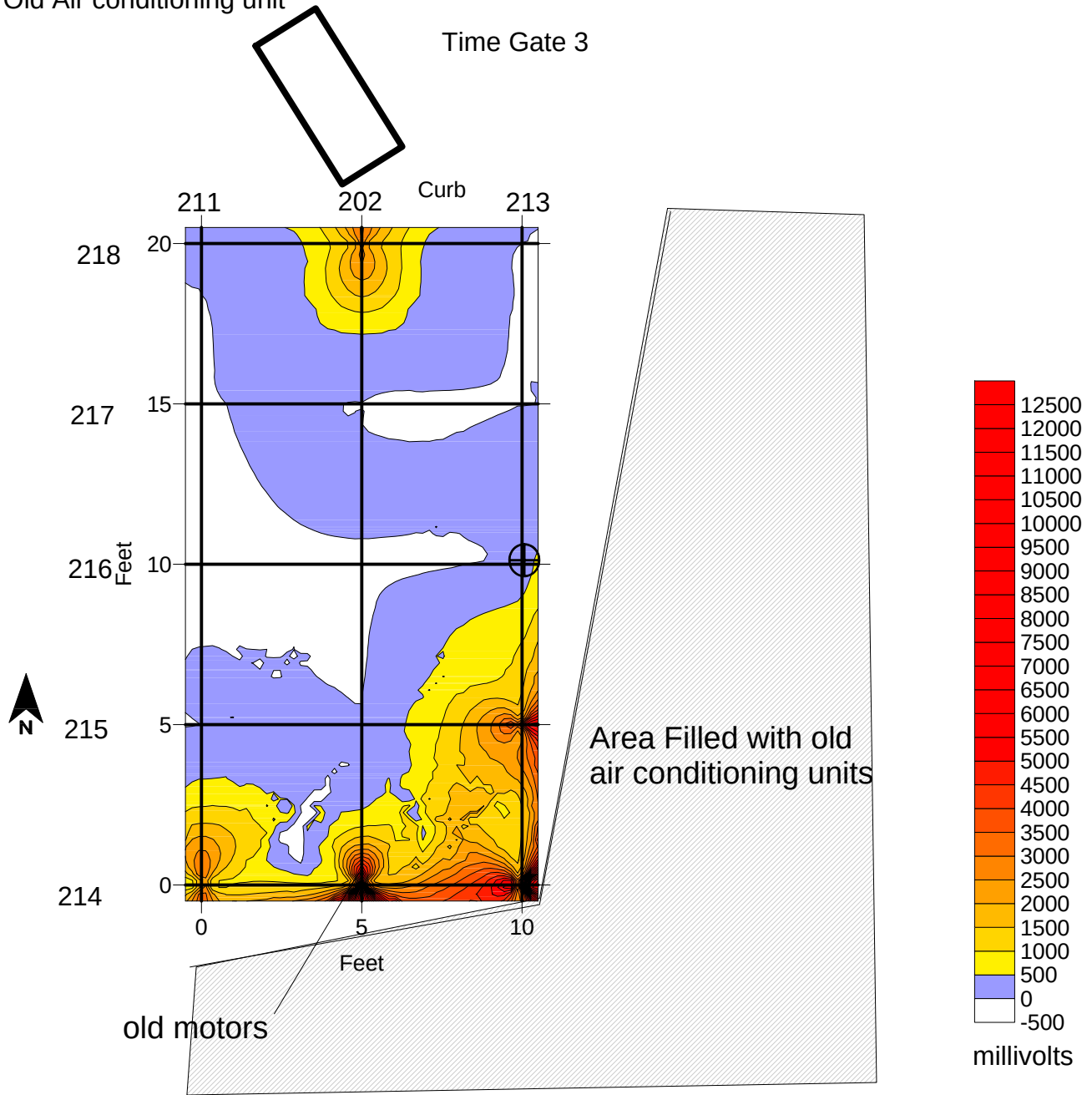
After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Old Air conditioning unit

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-03
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

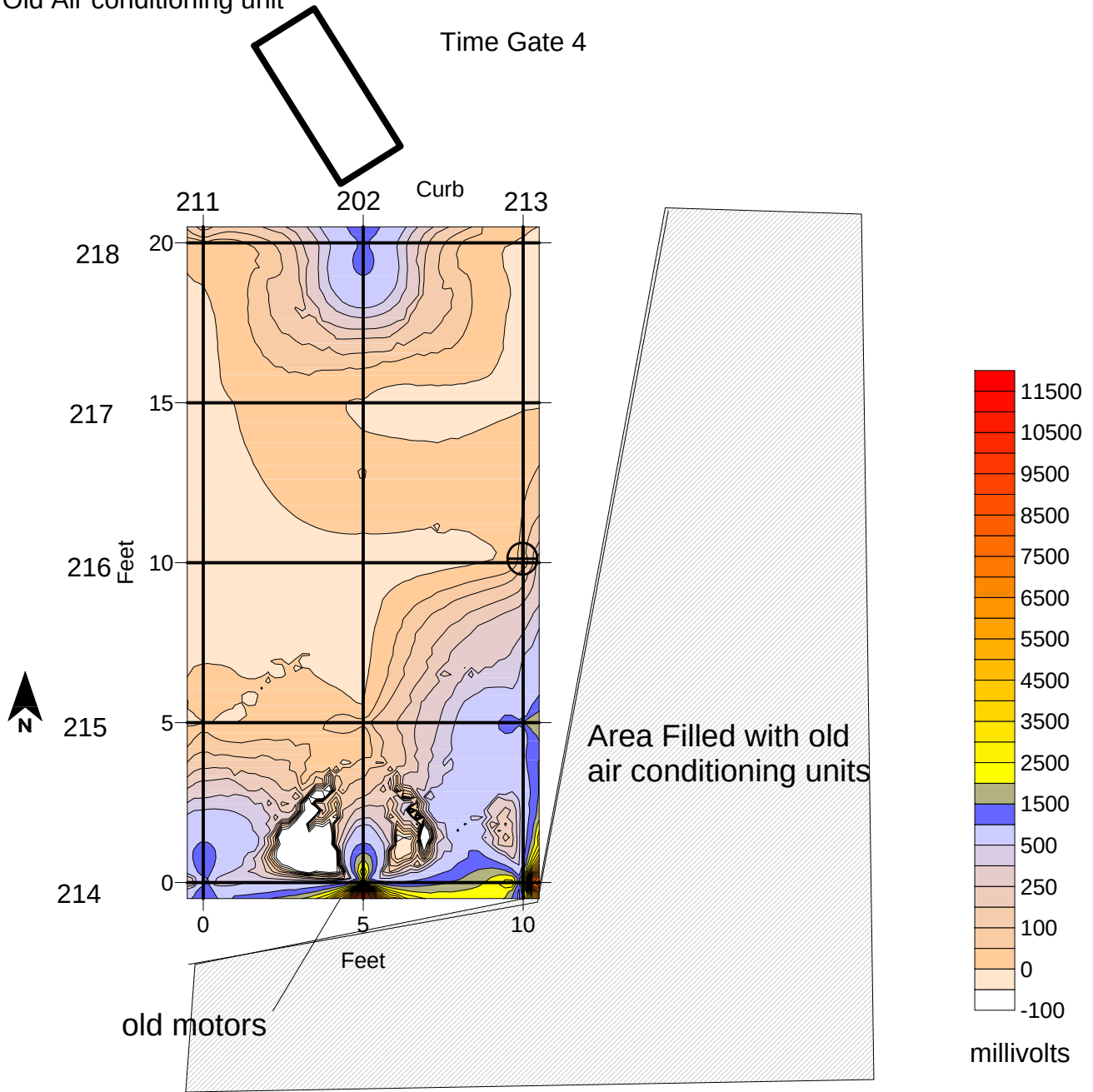
SOIL BORING 7-SB-03

SCALE: 1" = 5'

June 22, 2007

Old Air conditioning unit

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-03
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

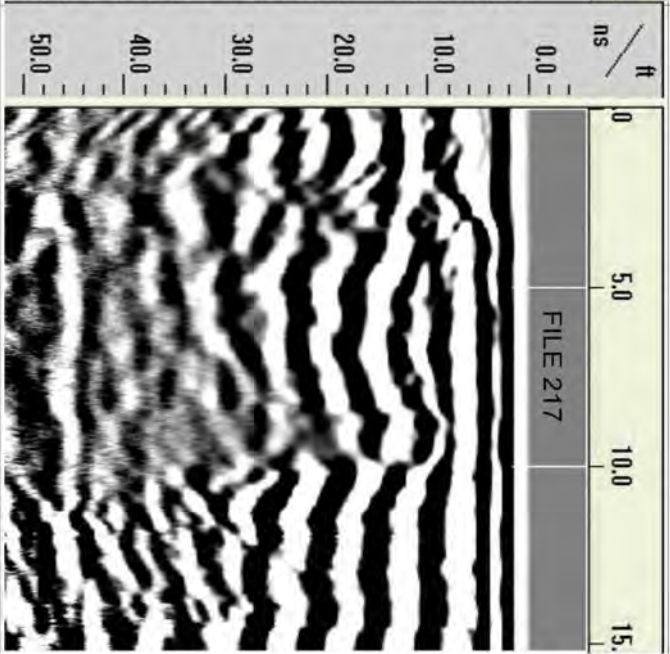
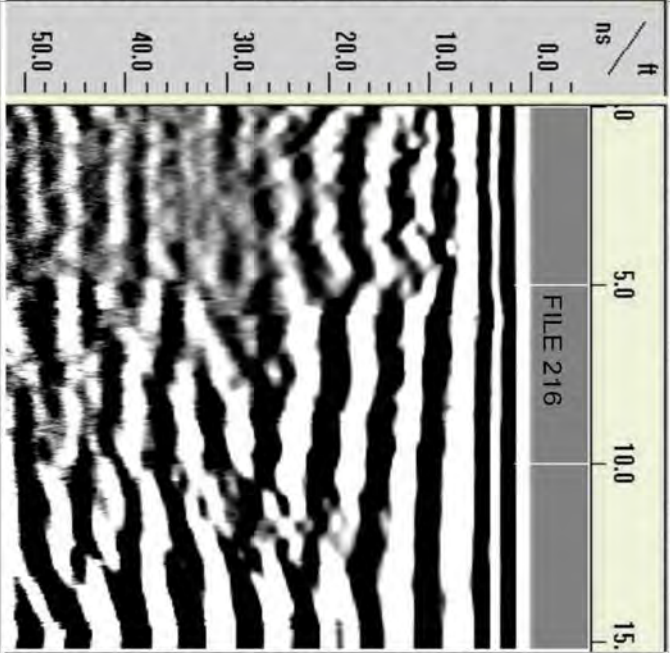
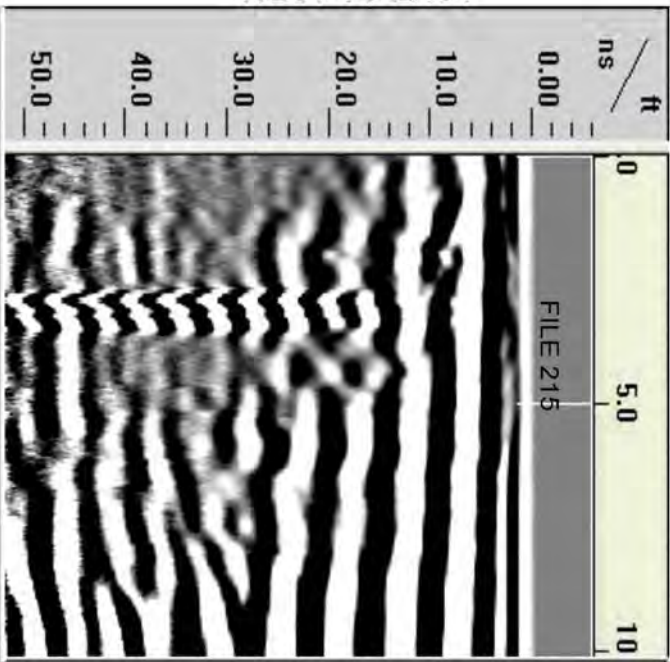
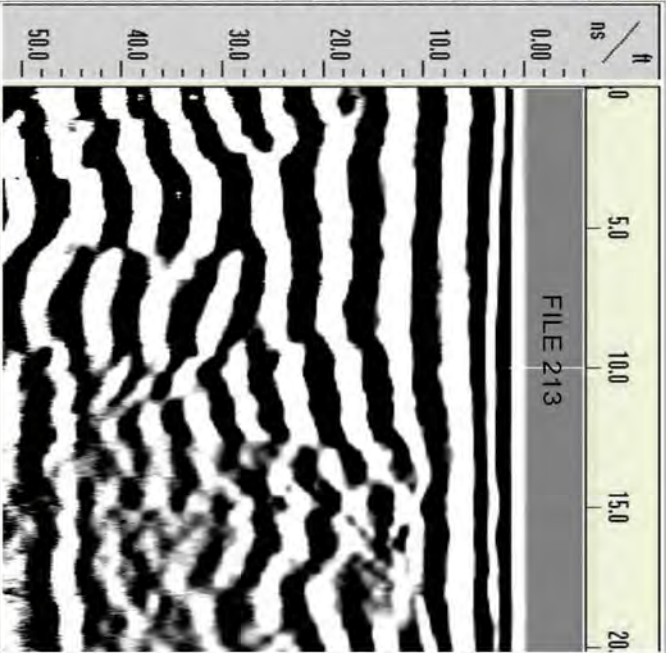
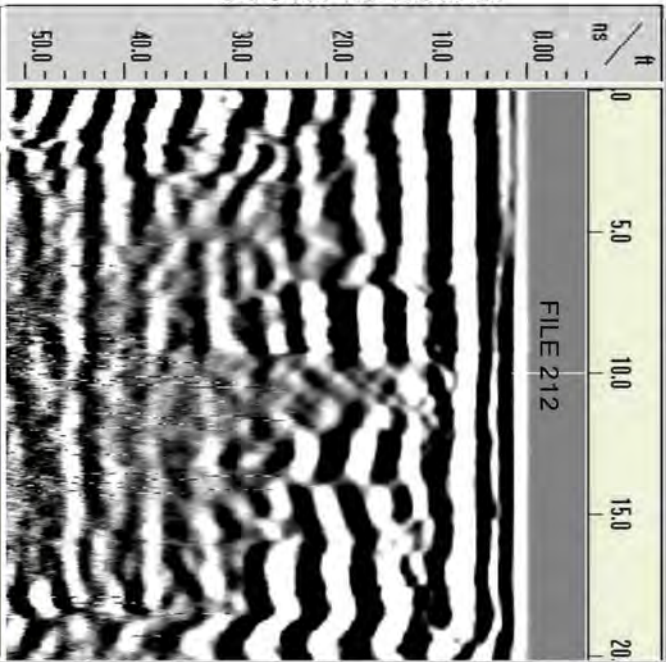
ARM Geophysics

SOIL BORING 7-SB-03

SCALE: 1" = 5'

June 22, 2007

Soil Boring 7-SB-03



SOUTH TO NORTH

WEST TO EAST

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-04

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-04 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the storm sewer grate and the pallets with 55-gallon drums. There is also a curb that transects the grid from the west-central section and trends southeast toward the southeast corner of the grid. The EM61 data in this area is higher than standard but the EM61 did detect a slightly elongated anomaly system along the X=5 area. This potential anomaly/utility also appears in the GPR data.

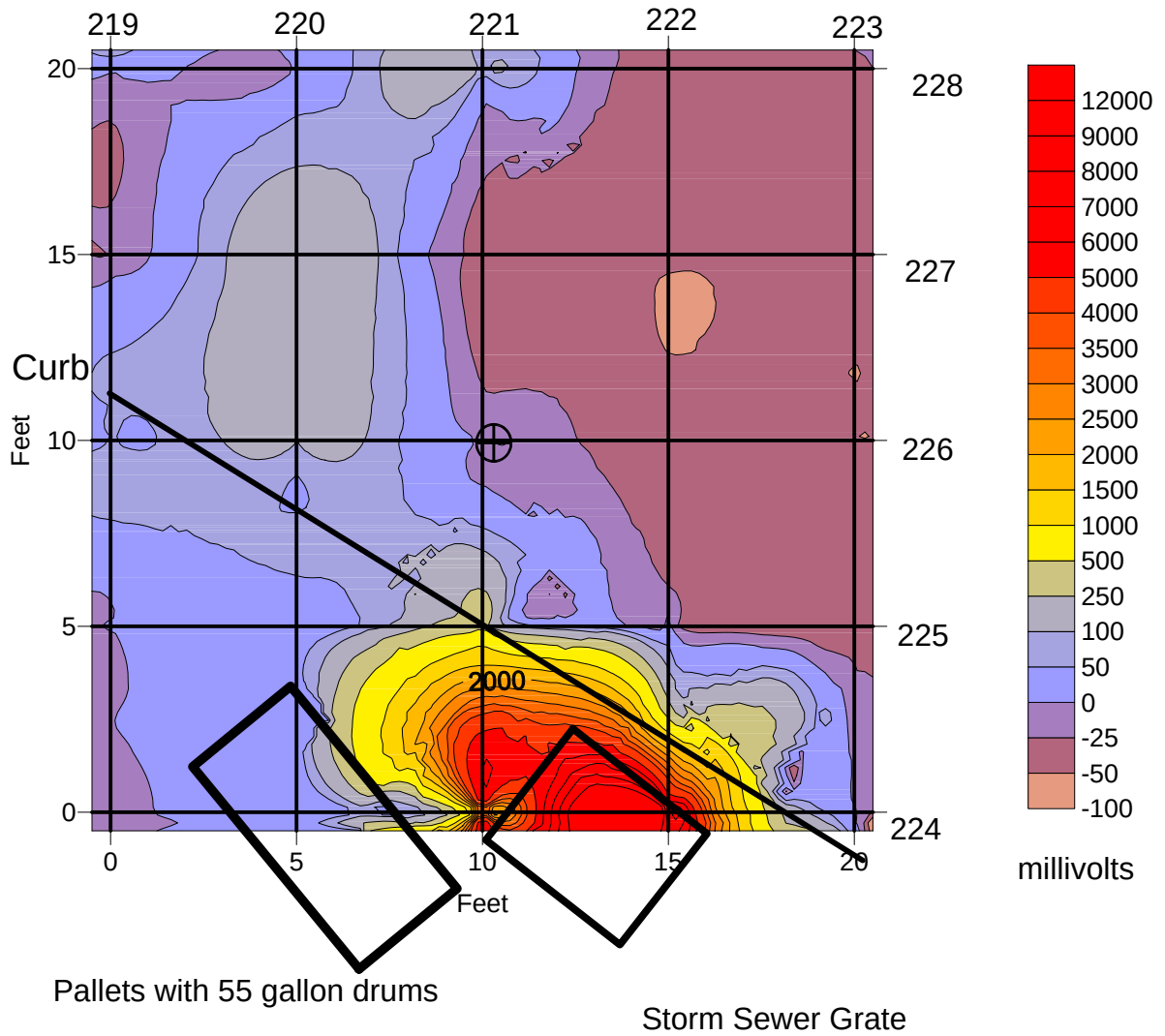
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies. One anomaly has characteristics that may be a utility. It is located along File 221 at approximately 12 feet inline distance (adjacent to the proposed boring location) and trends approximately west to east. A second possible utility may be present trending south to north along X=5.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-04
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

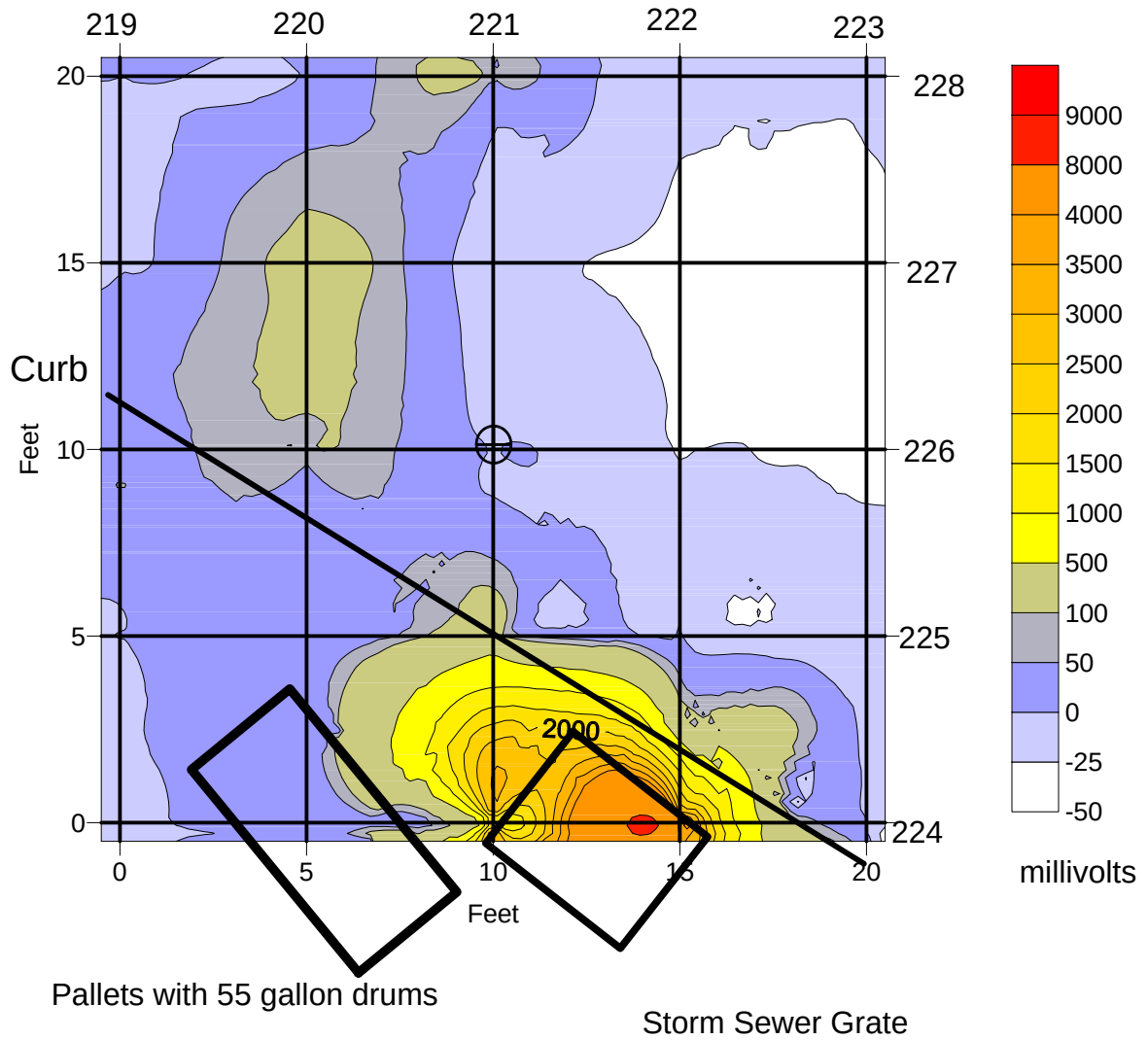
ARM Geophysics

SOIL BORING 7-SB-04

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-04
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

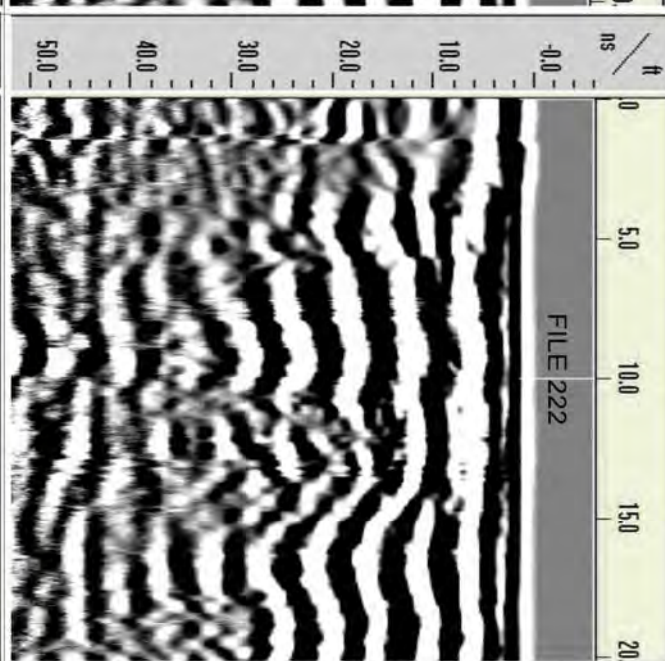
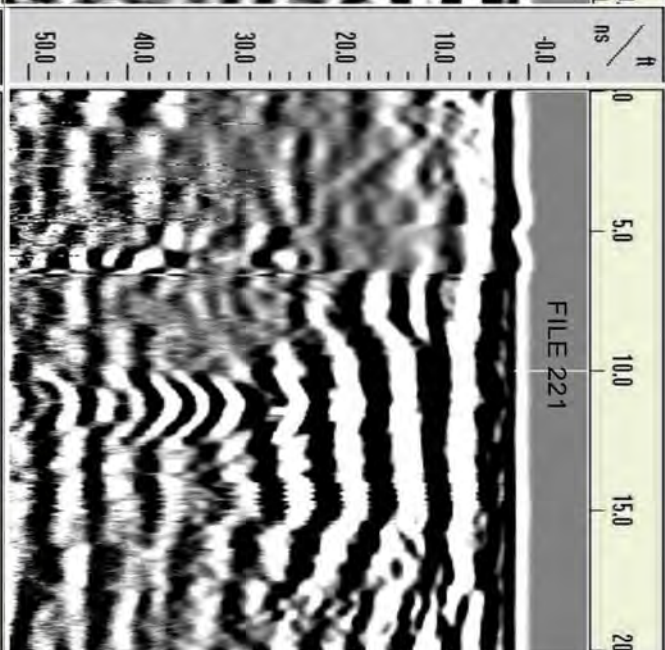
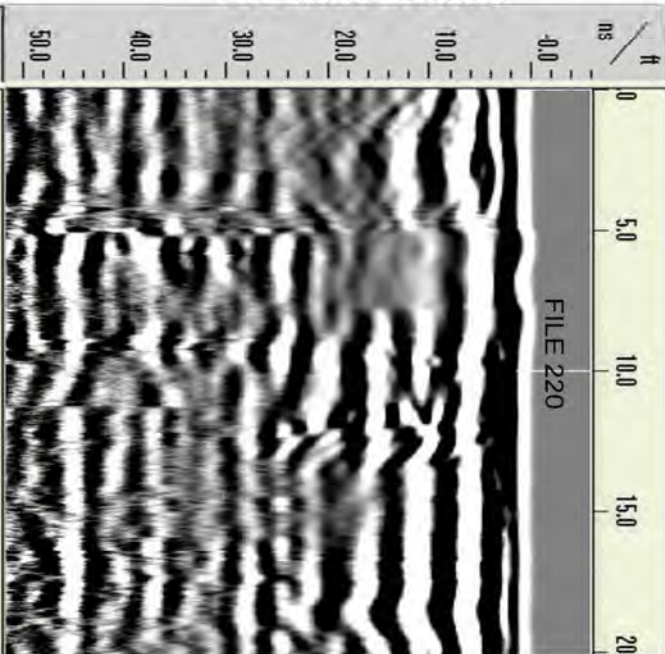
SOIL BORING 7-SB-04

SCALE: 1" = 5'

June 22, 2007

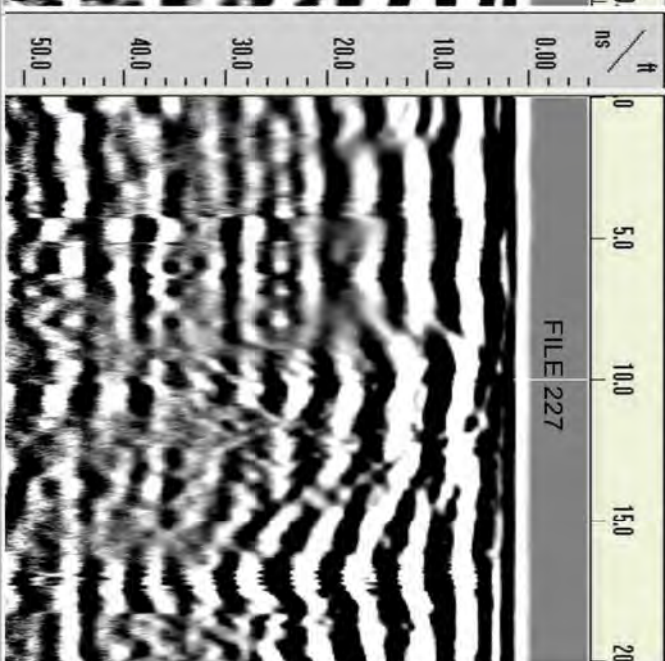
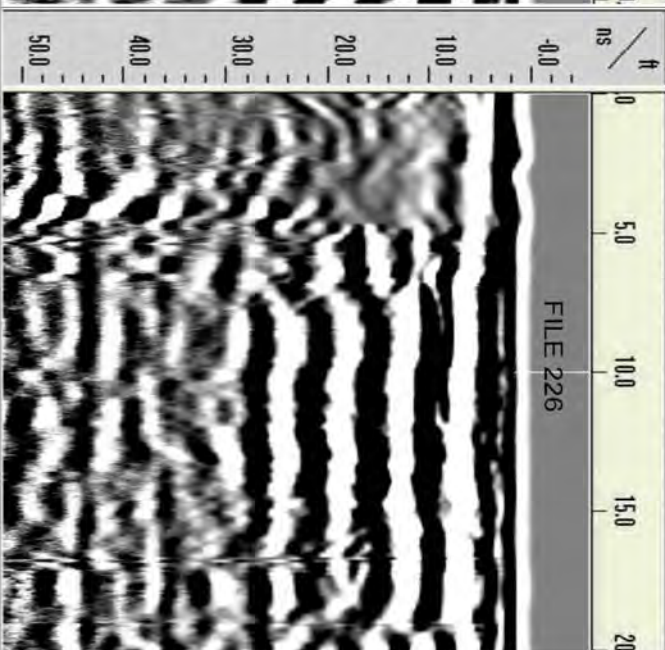
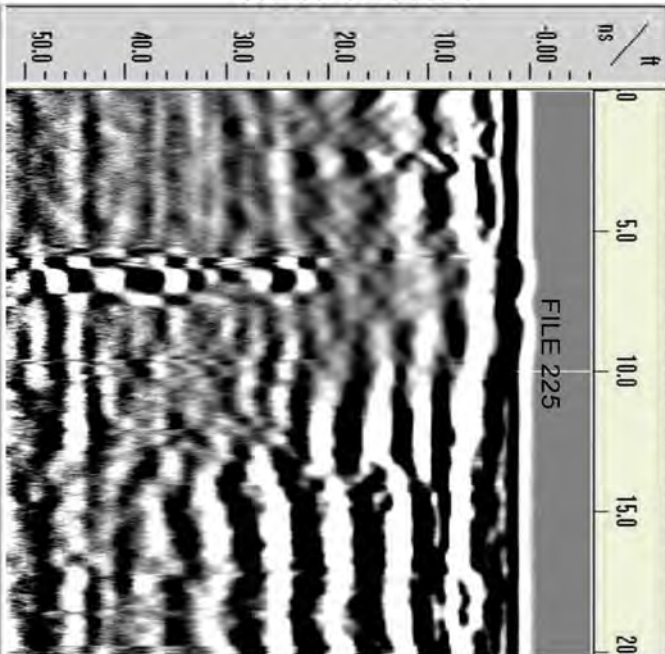
Soil Boring 7-SB-04

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-05

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-05 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

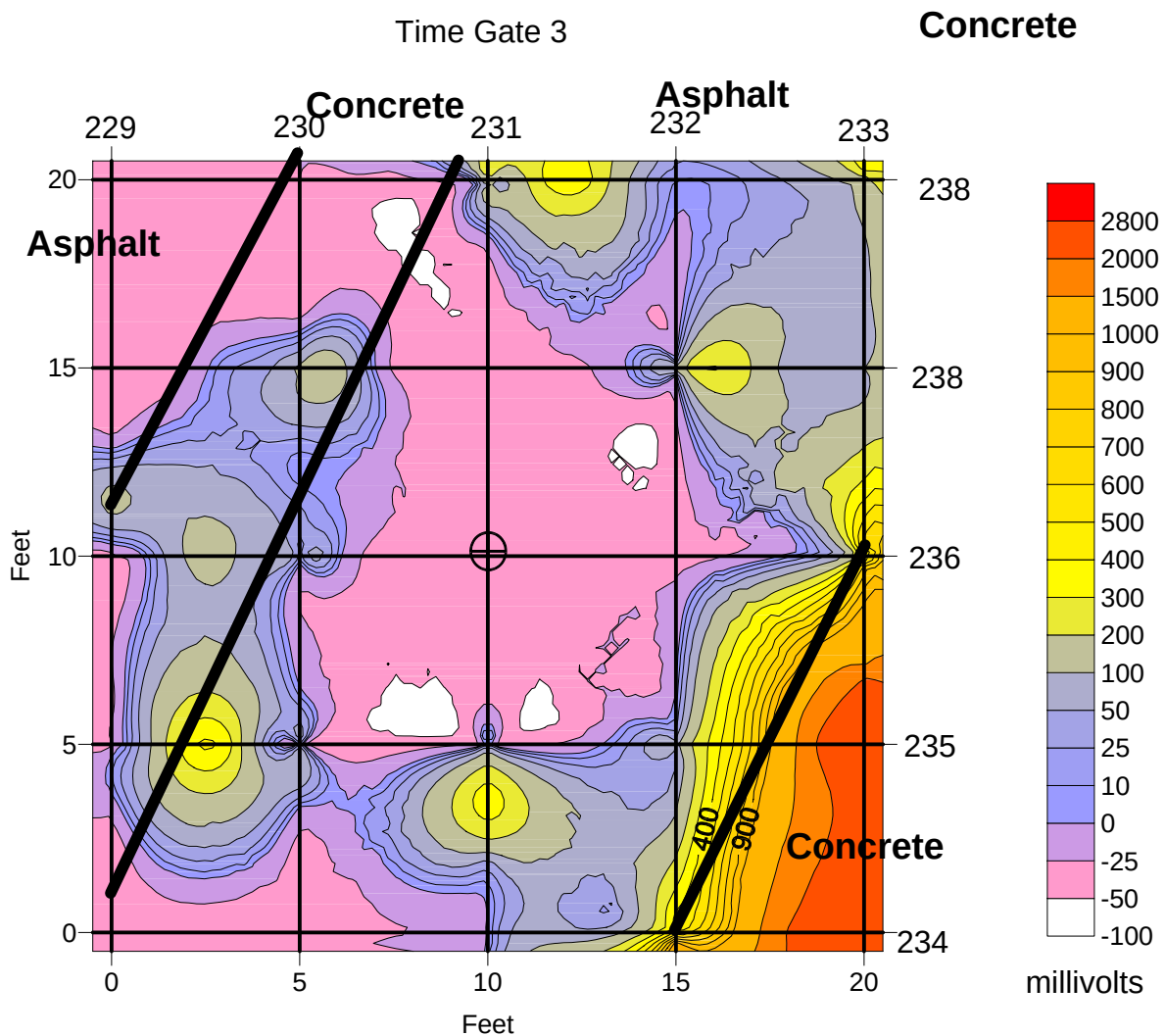
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the reinforced concrete in the sections of surface concrete. The EM61 data in this area is higher than standard but the EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of numerous high-intensity reflections within the subsurface.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-05
located at [10,10]

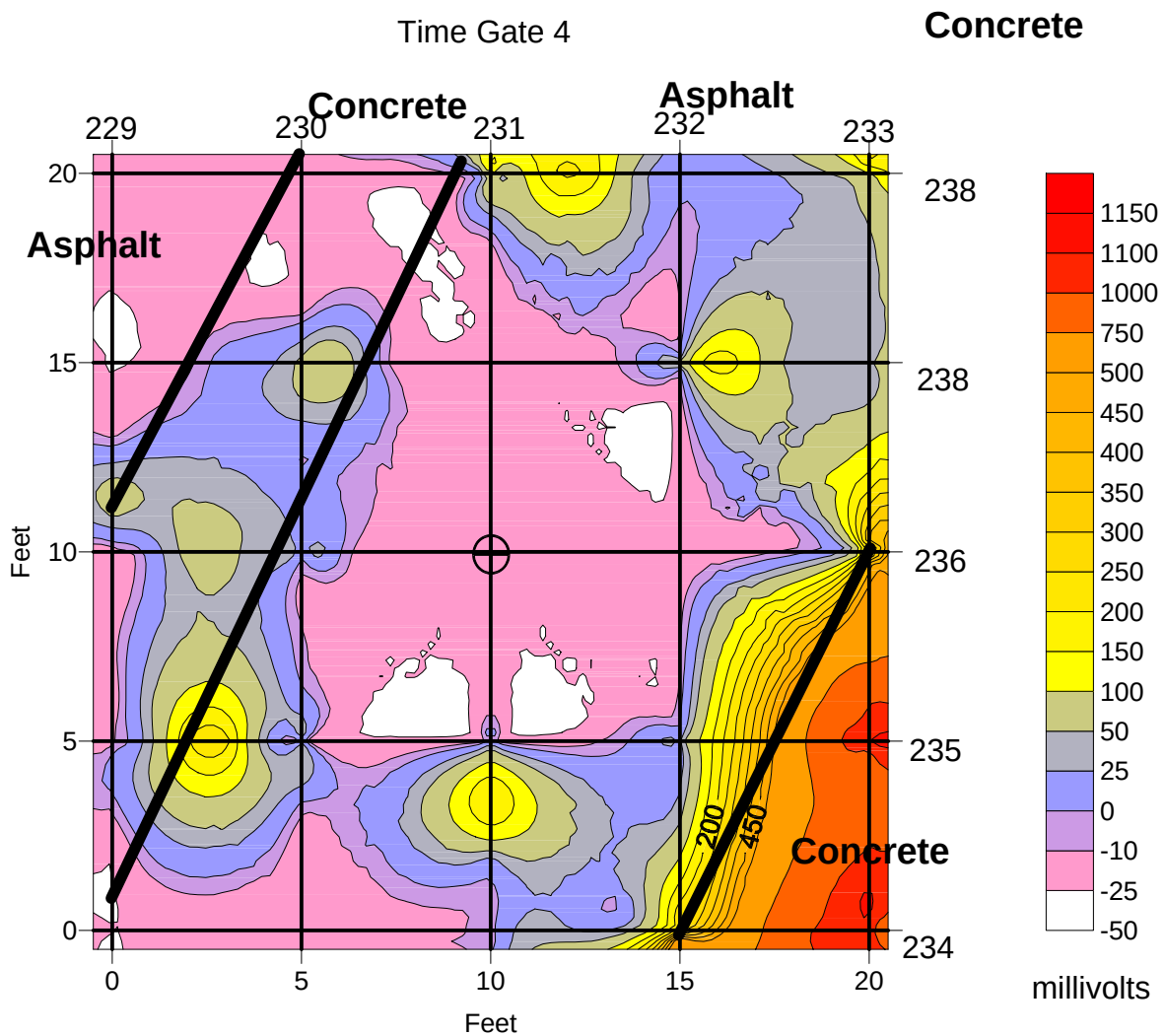
MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

SOIL BORING 7-SB-05

SCALE: 1" = 5'

June 22, 2007



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-05
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

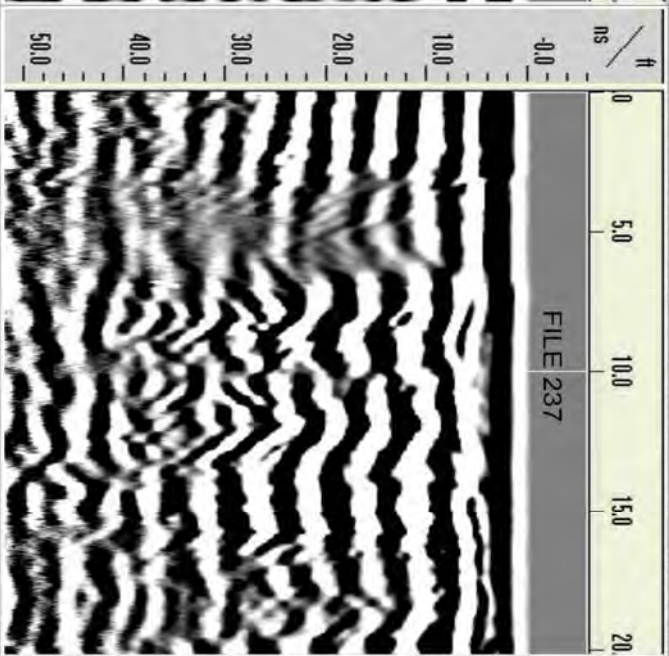
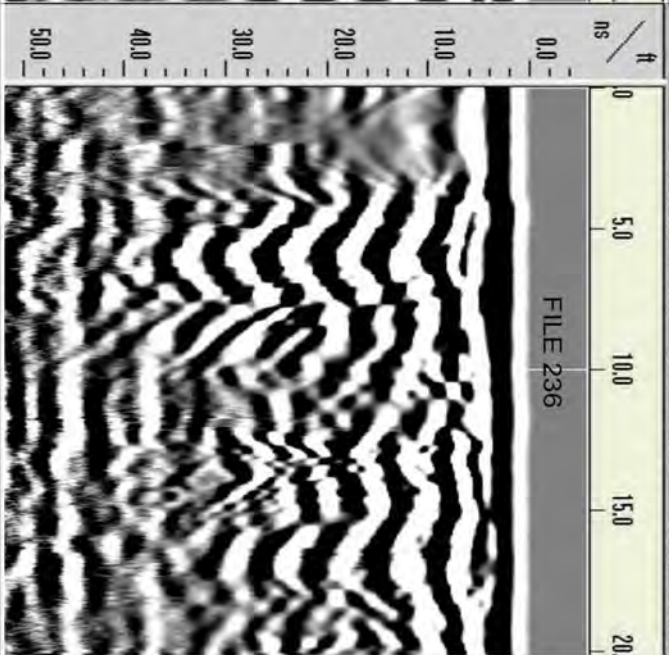
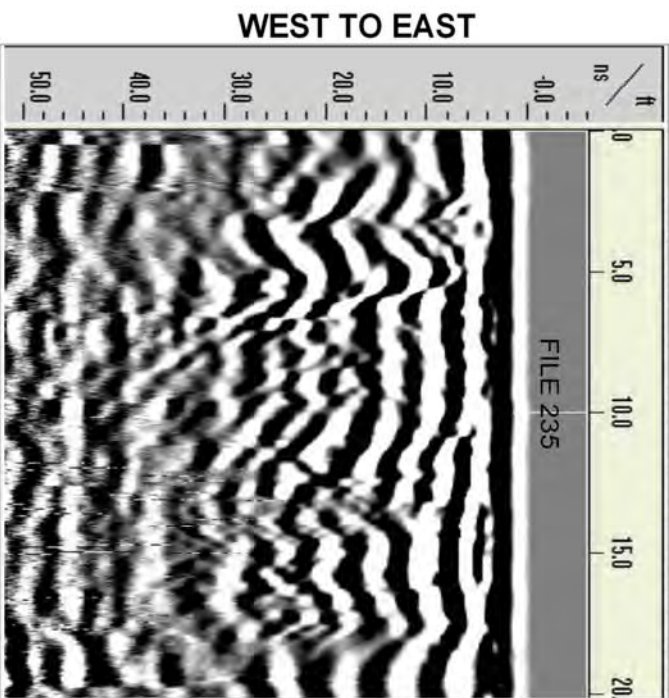
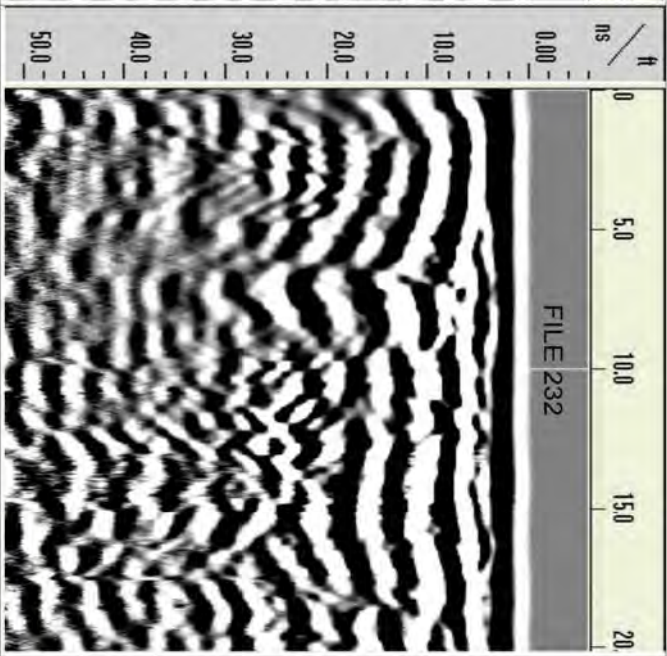
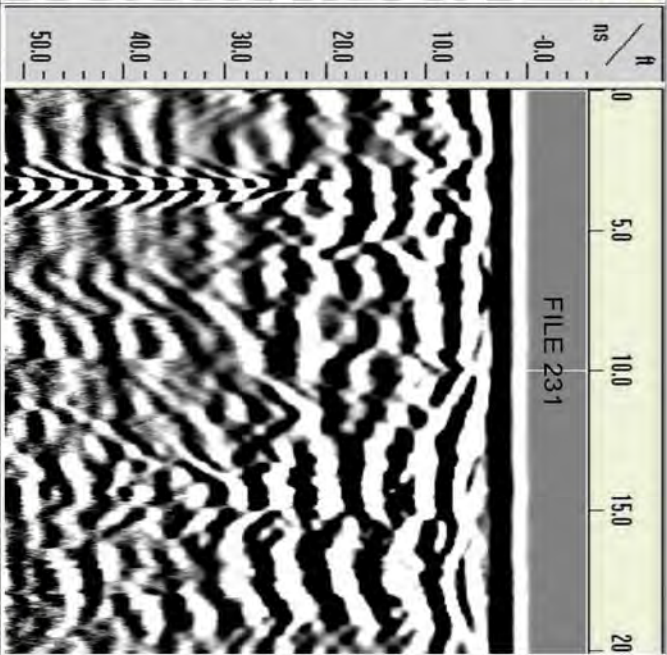
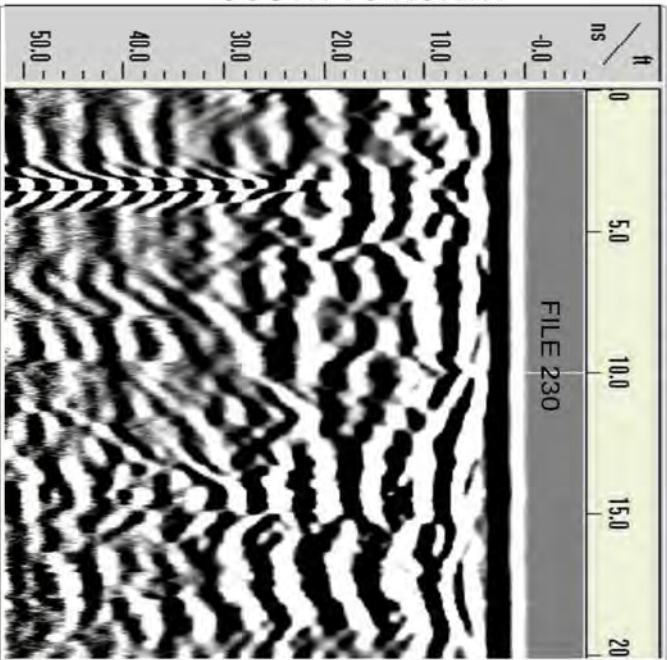
ARM Geophysics

SOIL BORING 7-SB-05

SCALE: 1" = 5'

June 22, 2007

Soil Boring 7-SB-05



WEST TO EAST

SOUTH TO NORTH

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-06

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-06 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the pallets of 55-gallon drums. In addition there is a curb that transects the grid from the western section and trends to the southeast toward the southeast corner of the grid. The EM61 data in this area is higher than standard but the EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

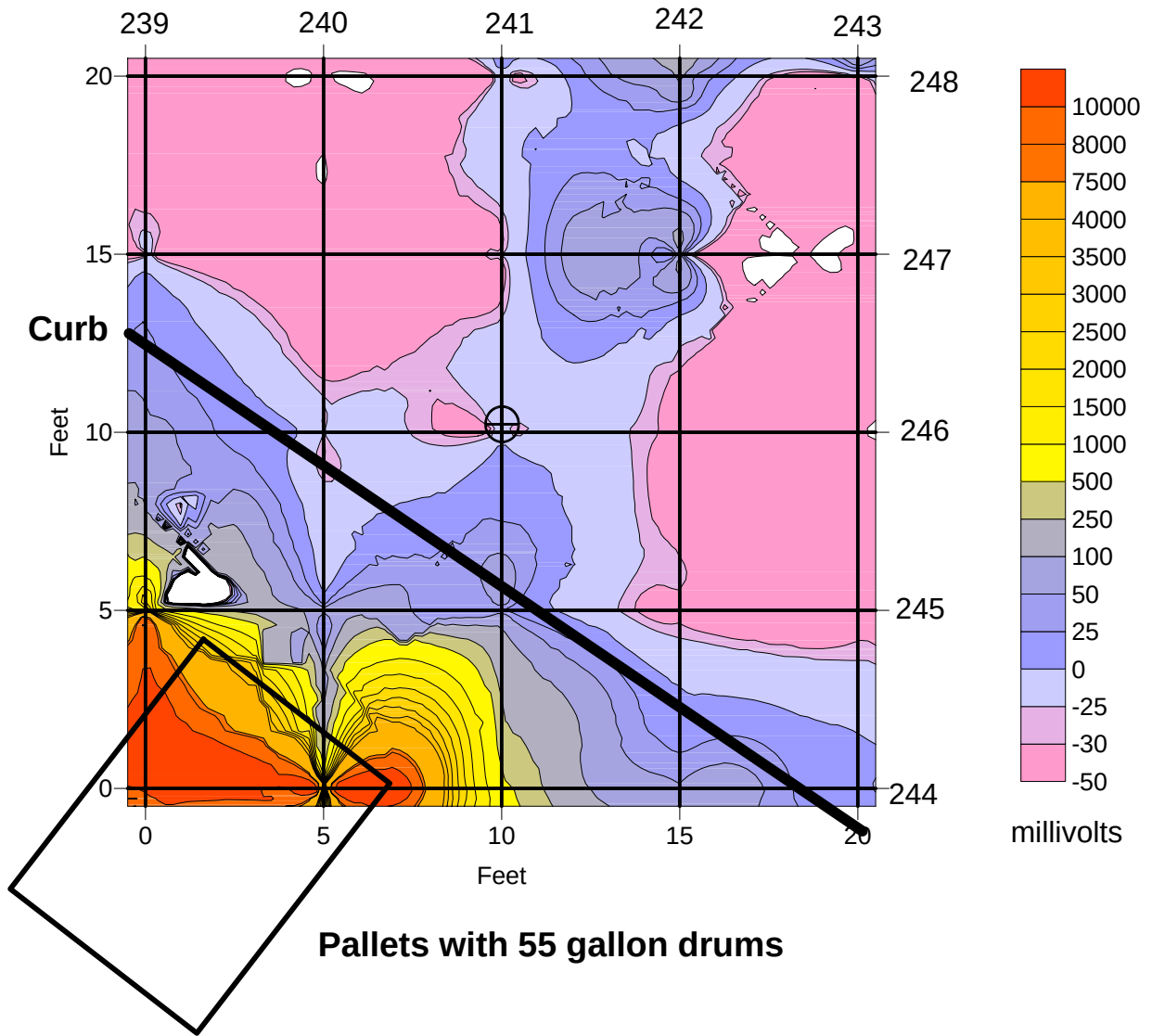
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous high-intensity reflections which may obscure potential anomalies.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-06
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

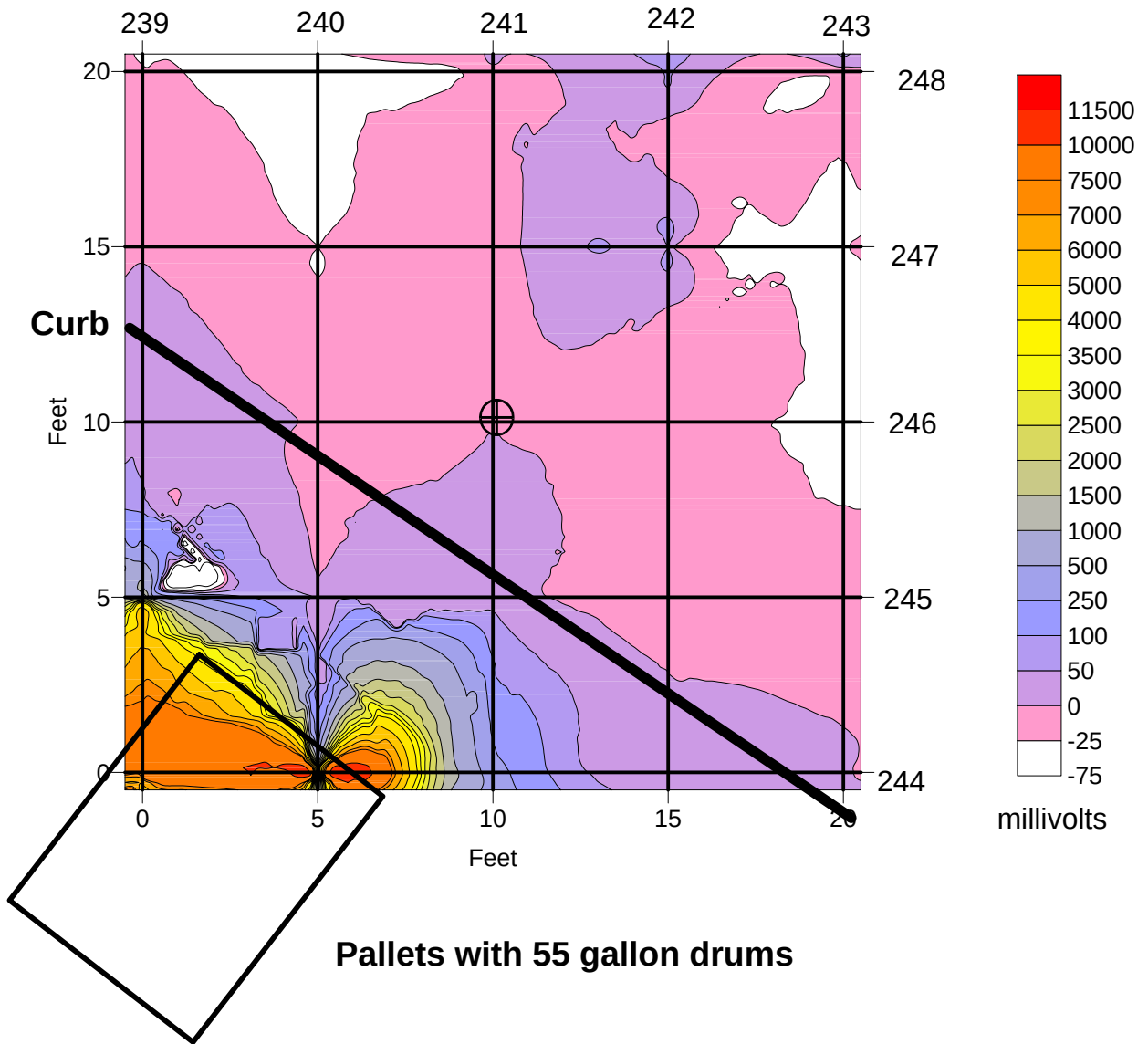
ARM Geophysics

SOIL BORING 7-SB-06

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-06
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

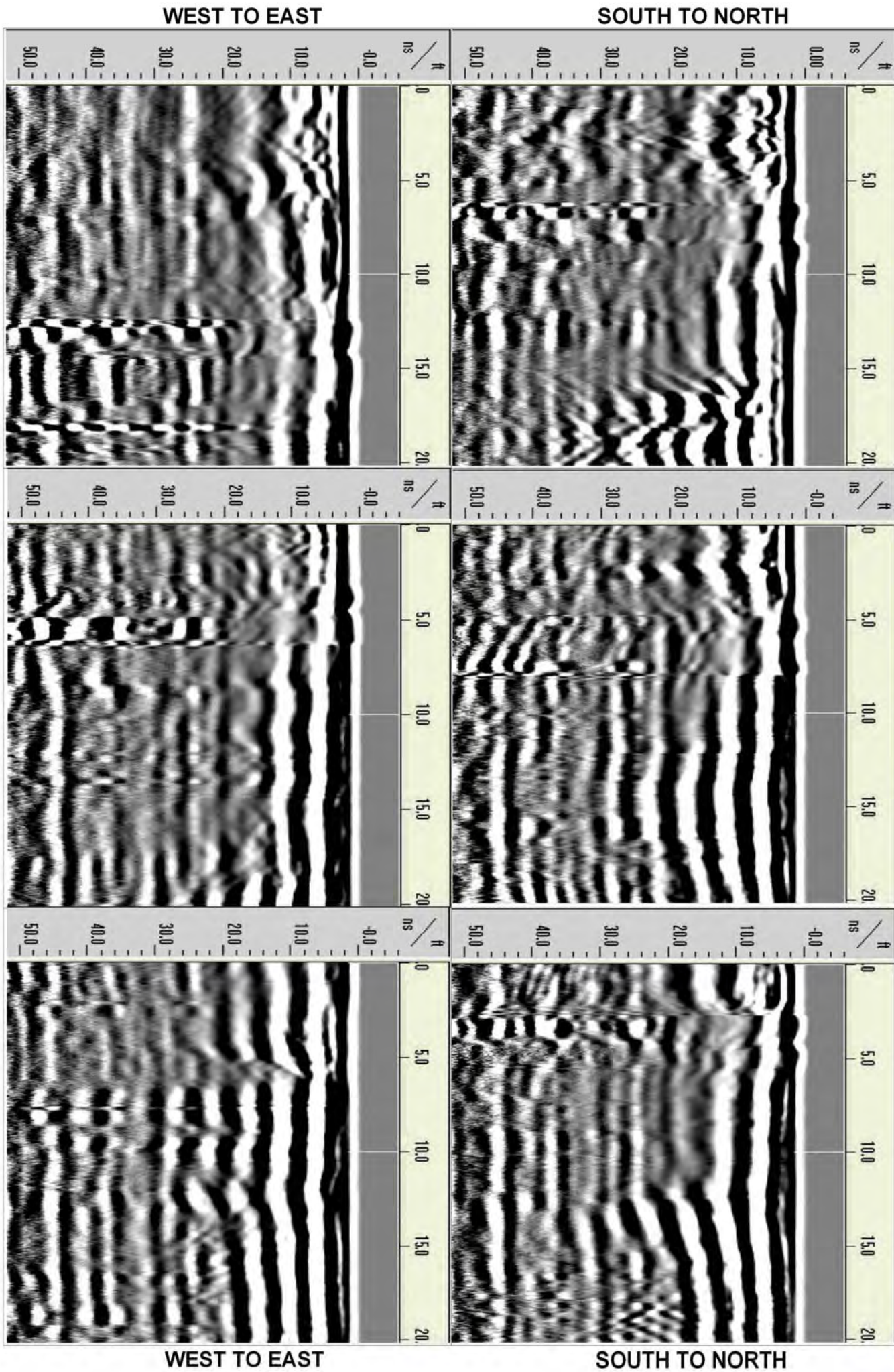
ARM Geophysics

SOIL BORING 7-SB-06

SCALE: 1" = 5'

June 22, 2007

Soil Boring 7-SB-06



July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-07

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-07 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, there is interference from the utility poles. The negative EM61 data may be the result of cultural interference. However, the EM61 did not detect any anomalies with characteristics similar to possible utilities (elongated and narrow).

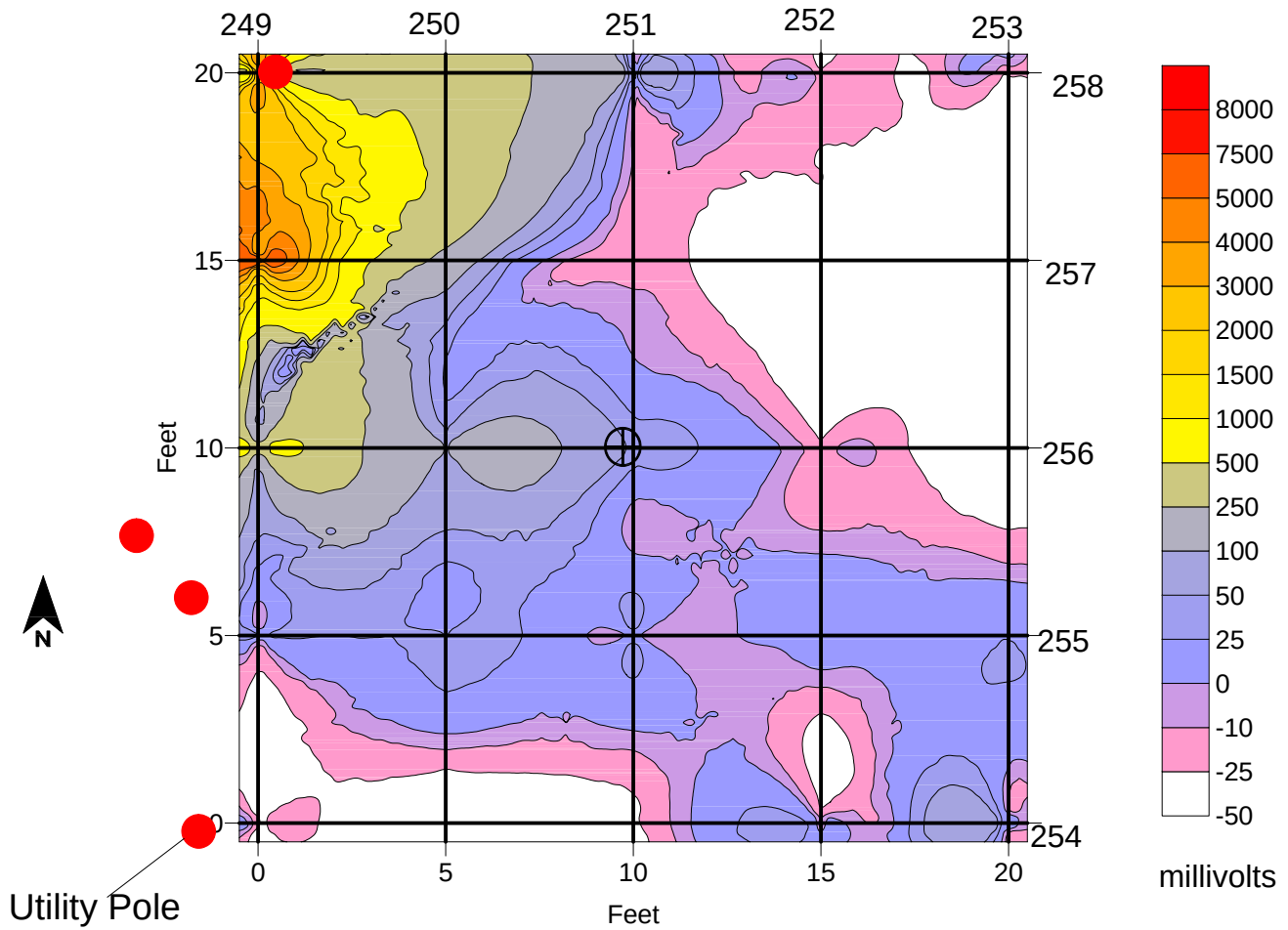
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of numerous high-intensity reflections. One anomaly at X=5, Y=10 has characteristics similar to a possible utility; however, the anomaly is not present on the adjacent lines. The highly reflective subsurface material may be masking the anomaly.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Time Gate 3



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-07
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

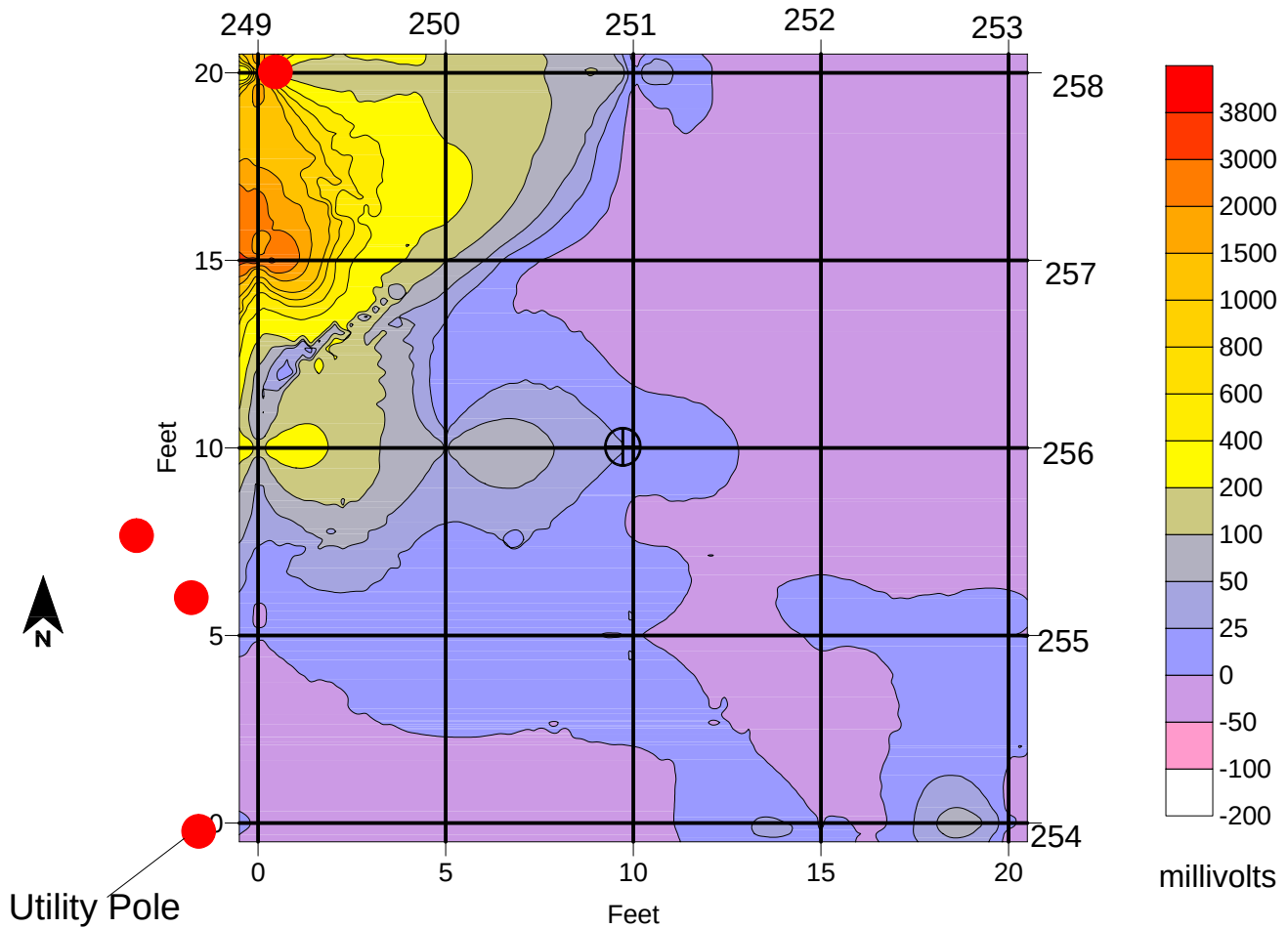
ARM Geophysics

SOIL BORING 7-SB-07

SCALE: 1" = 5'

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-07 located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

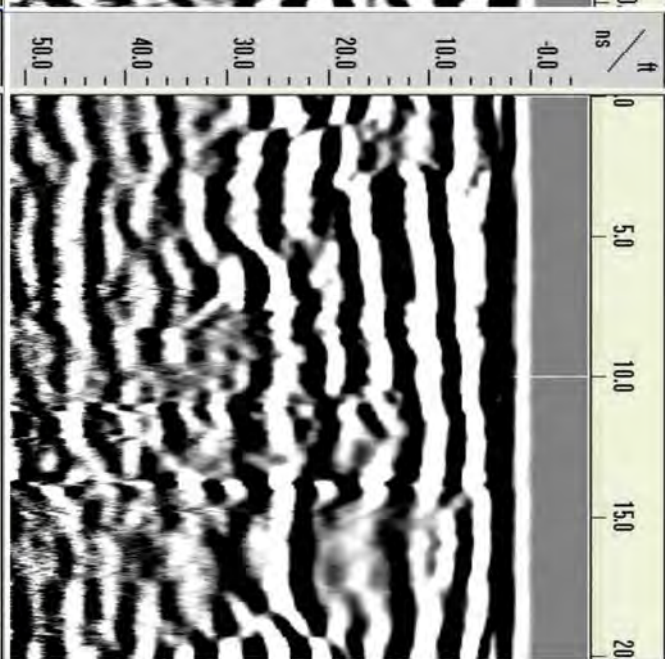
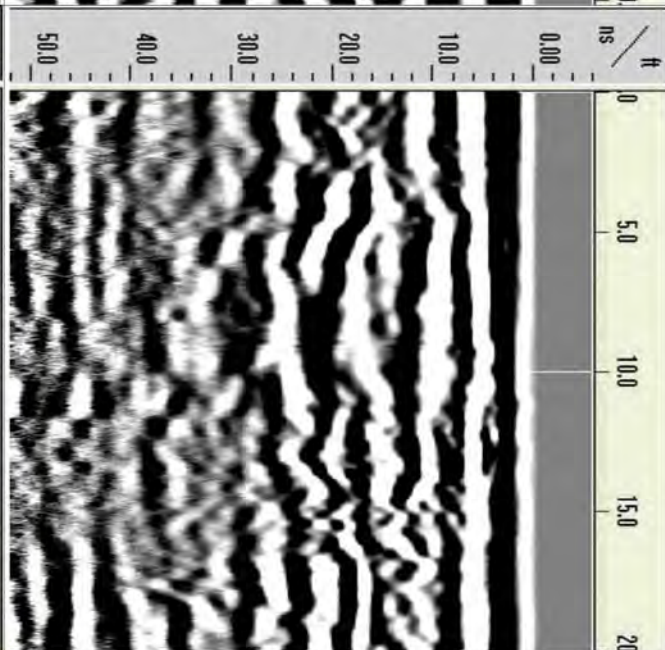
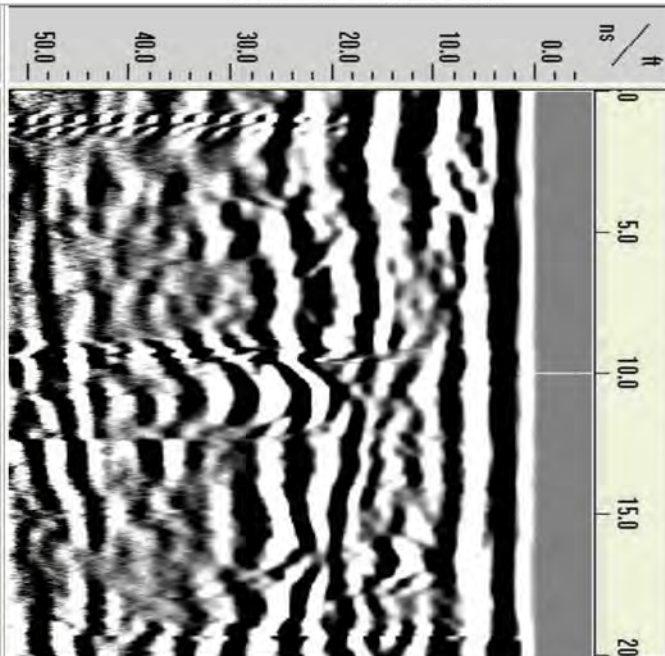
SOIL BORING 7-SB-07

SCALE: 1" = 5'

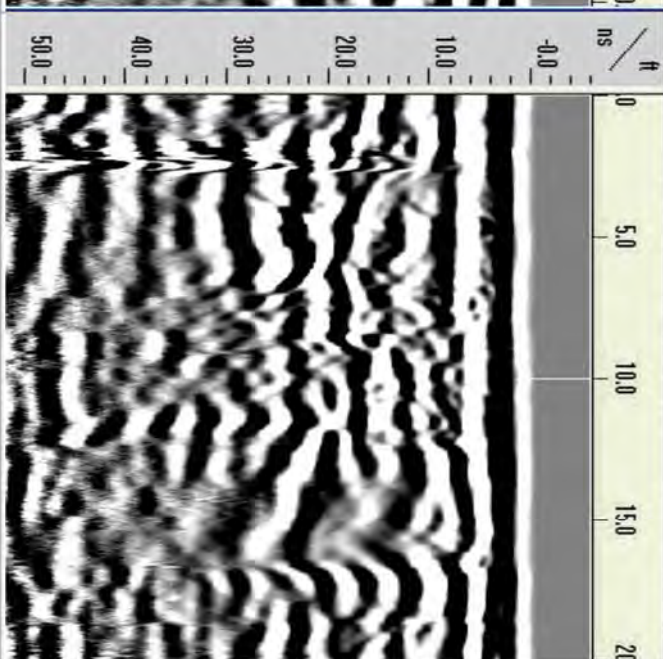
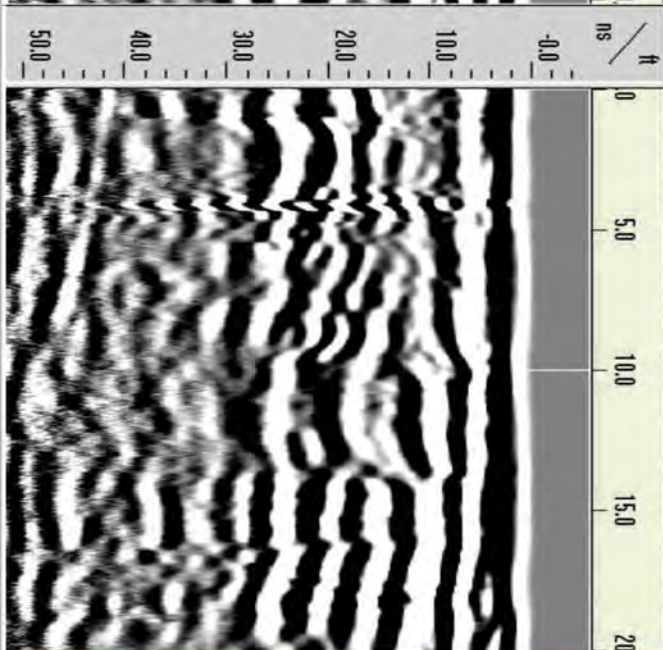
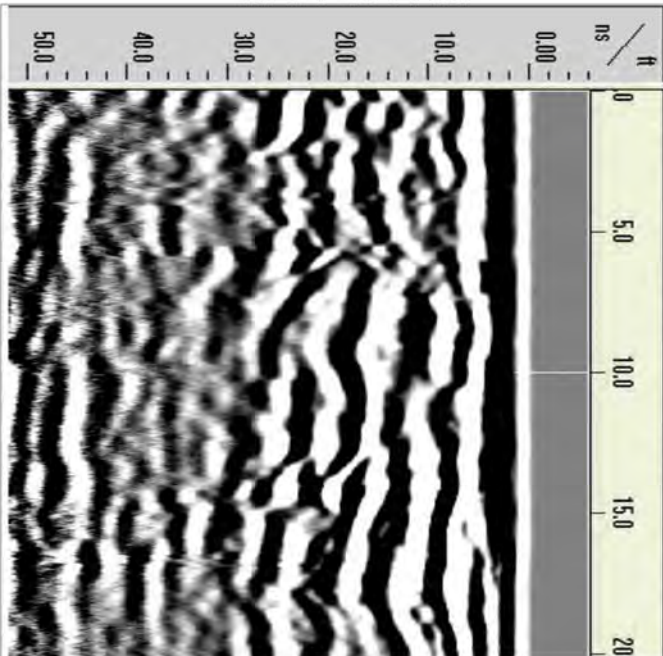
June 22, 2007

Soil Boring 7-SB-07

SOUTH TO NORTH



WEST TO EAST



WEST TO EAST

SOUTH TO NORTH

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-08

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-08 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). The entire grid was collected over concrete. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

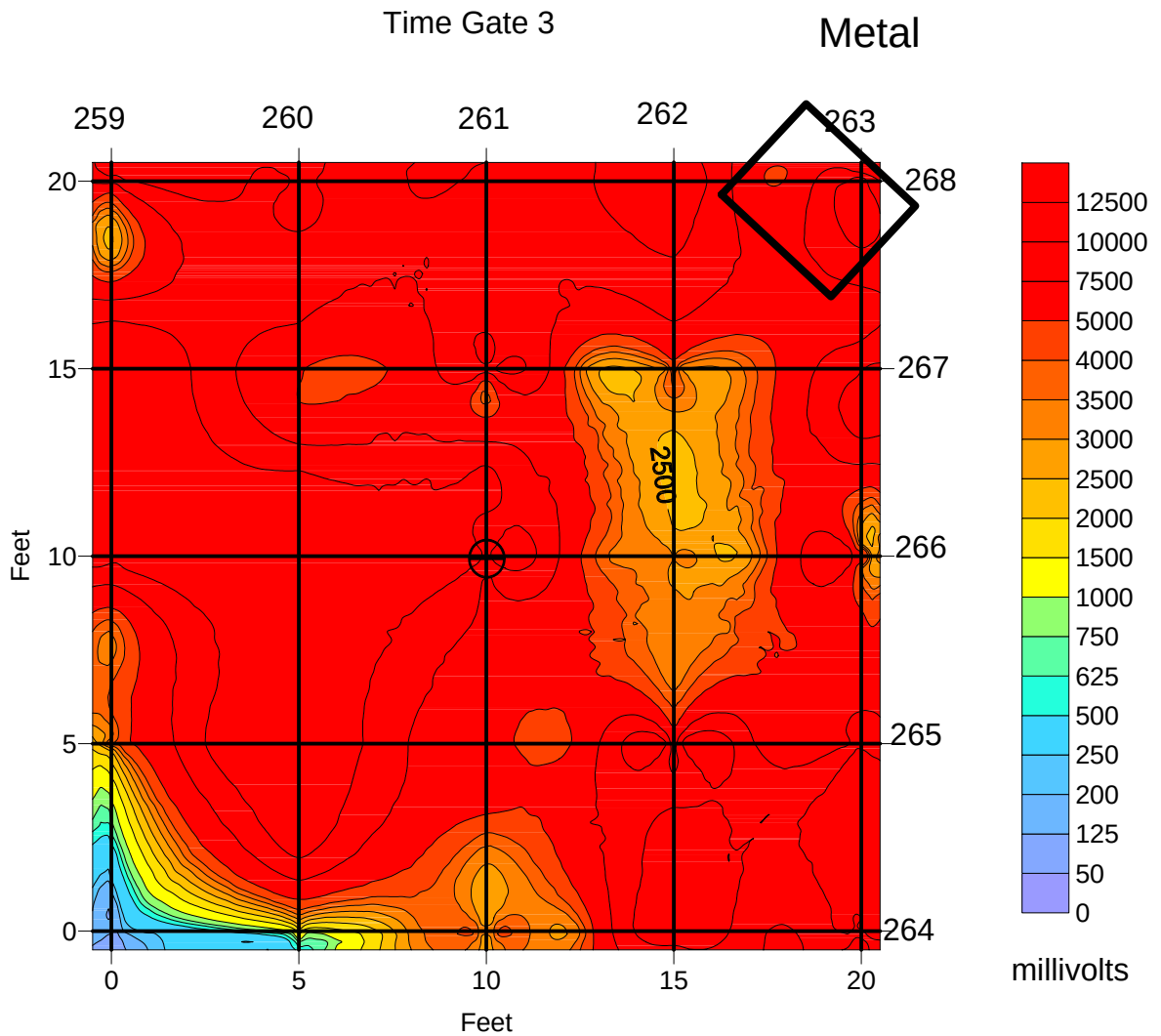
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, the concrete appears to have rebar/reinforcement within it. The EM61 data is essentially all interference from the rebar and surface metal.

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous anomalies within the subsurface; however, the source of the anomalies as well as the configuration of the anomalies is not clear due to the concrete/rebar. There appears to be two anomalies along File 260 at the inline distances of 5 and 10 feet that may represent potential pipes/utilities; however, they are not detected on the adjacent GPR files.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



Entire grid on concrete - appears to have rebar

KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-08
located at [10,10]

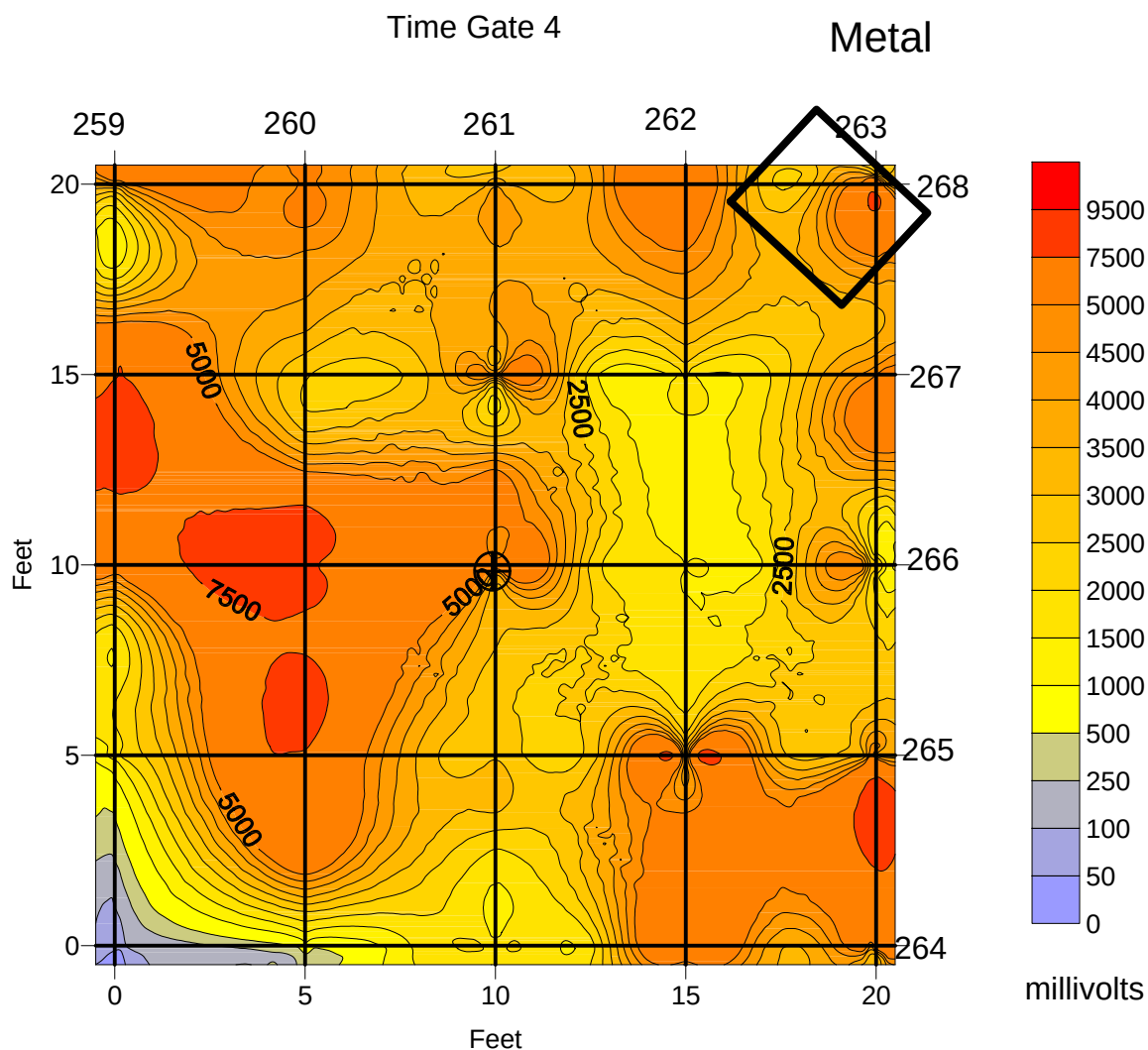
MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

SOIL BORING 7-SB-08

SCALE: 1" = 5'

June 22, 2007



Entire grid on concrete - appears to have rebar

KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-08
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

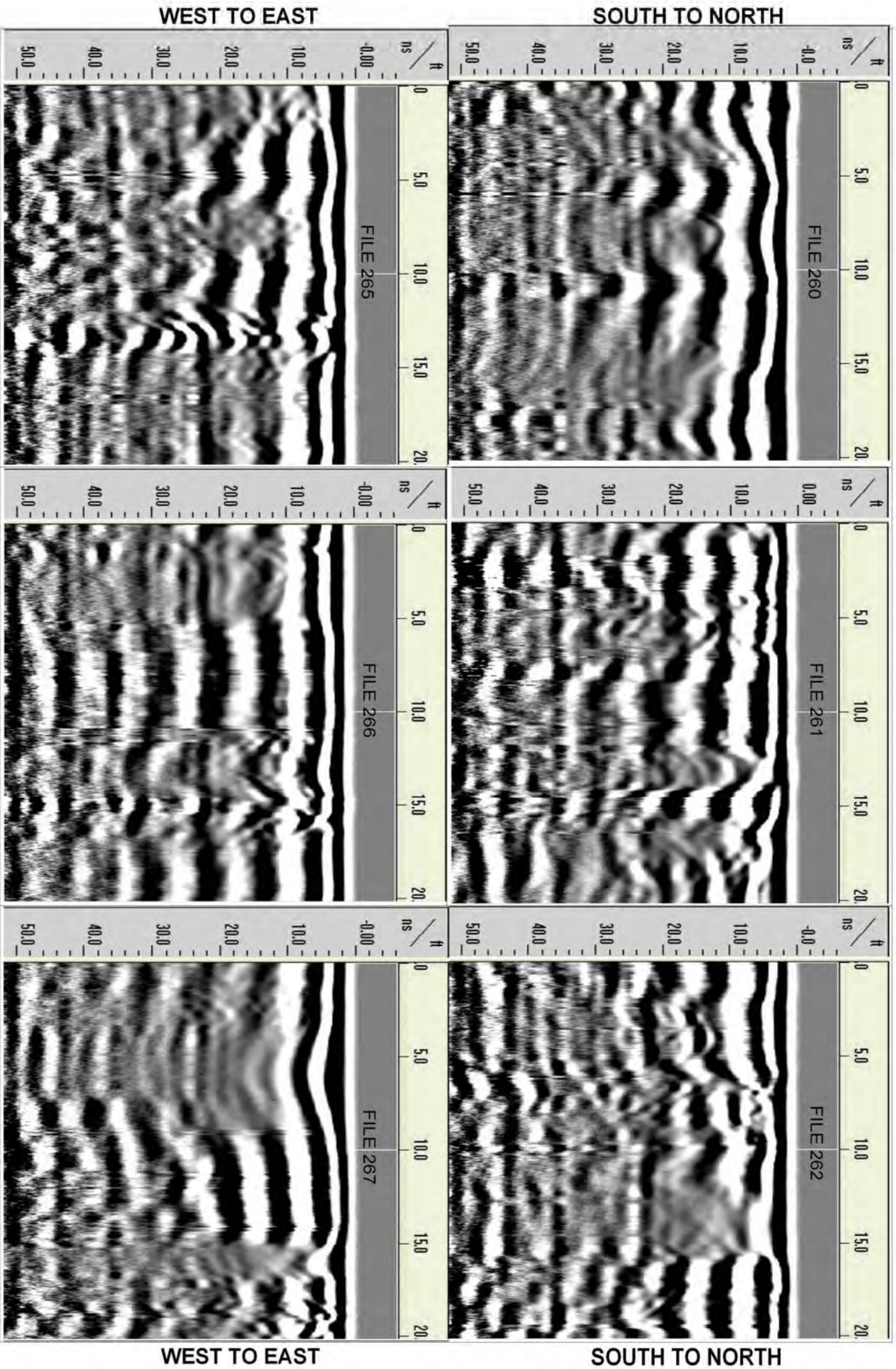
ARM Geophysics

SOIL BORING 7-SB-08

SCALE: 1" = 5'

June 22, 2007

Soil Boring 7-SB-08



July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-09

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-09 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). The western half of the grid was collected over concrete. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

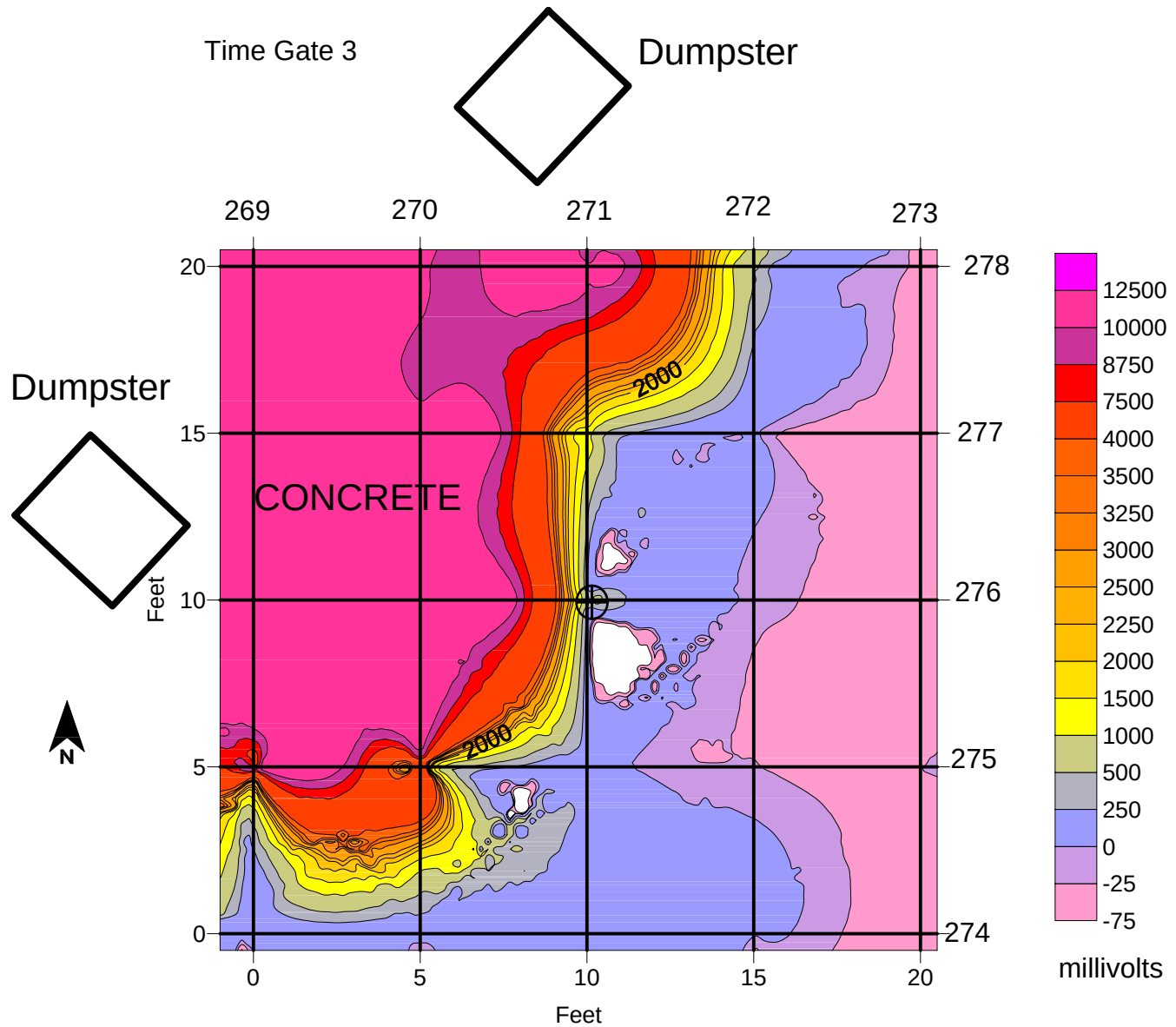
The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, the concrete appears to have rebar/reinforcement within it. The EM61 data is essentially all interference from the rebar.

The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of high-intensity reflections across the survey grid. Anomalies with characteristics of potential utilities are not observed in the GPR profiles; however, due to the high intensity reflections anomalies may be masked.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-09
located at [10,10]

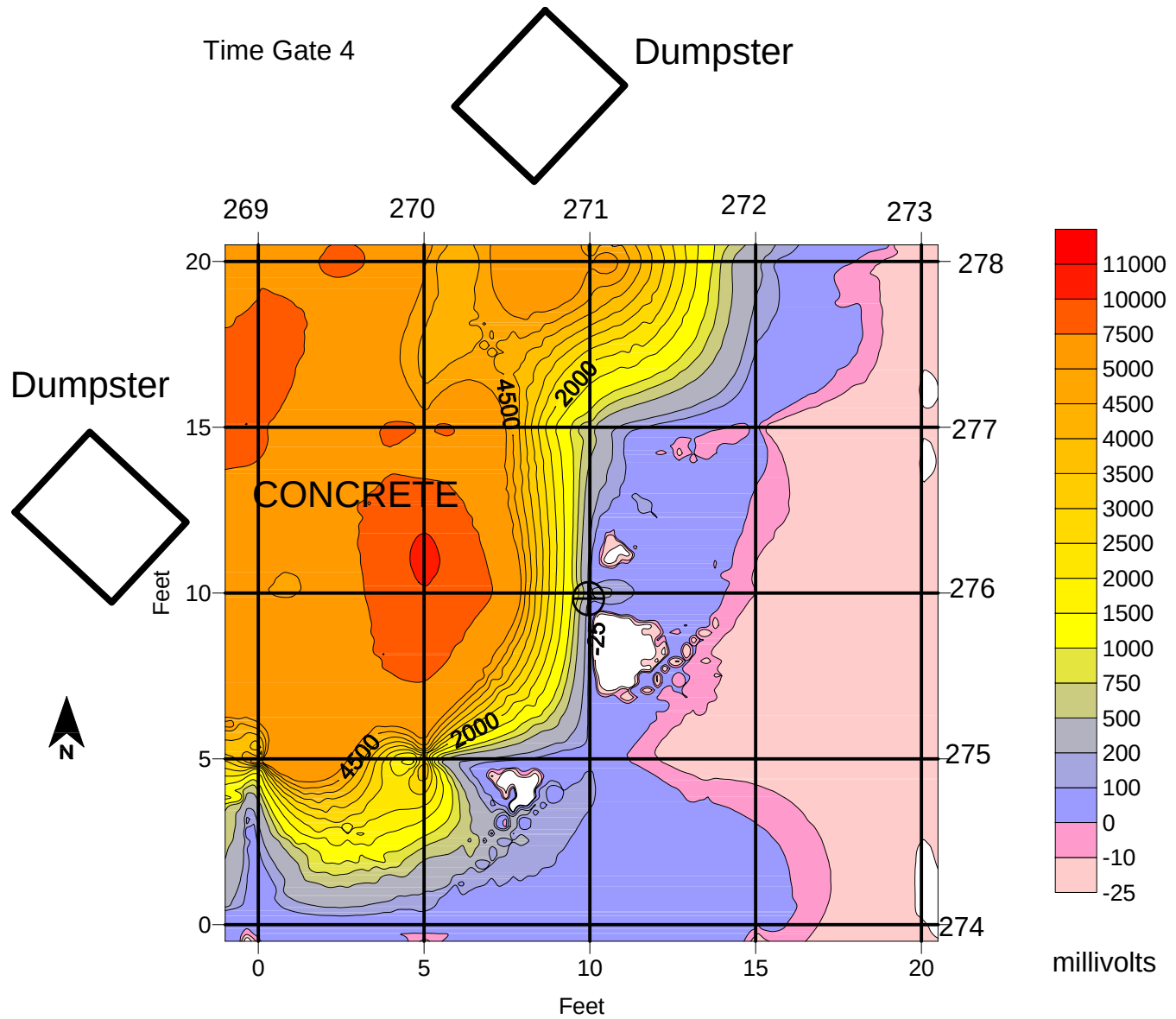
MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

SOIL BORING 7-SB-09

SCALE: 1" = 5'

June 22, 2007



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-09
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

ARM Geophysics

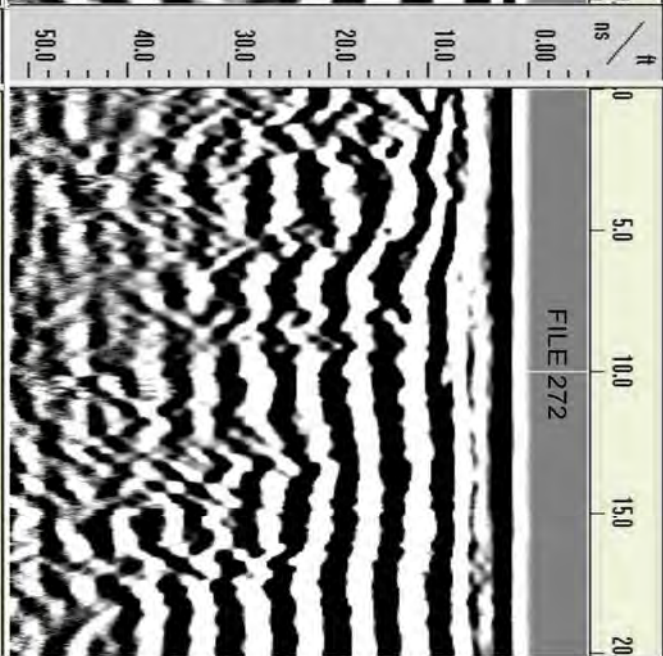
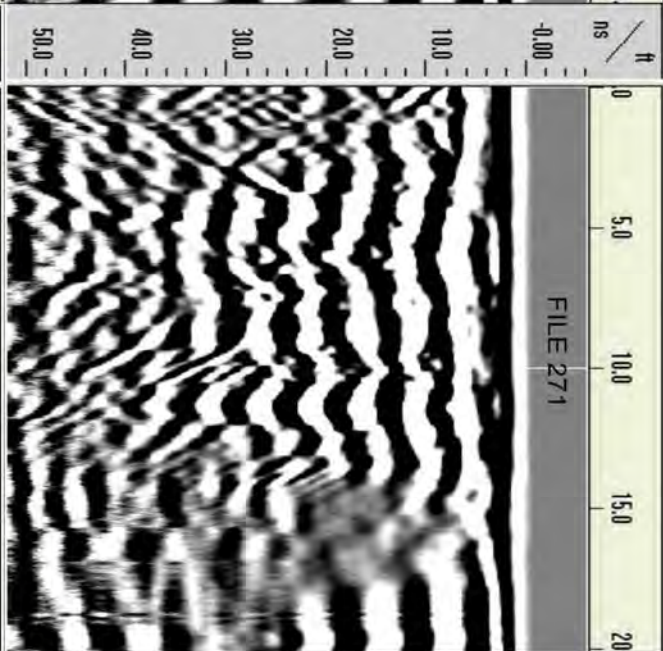
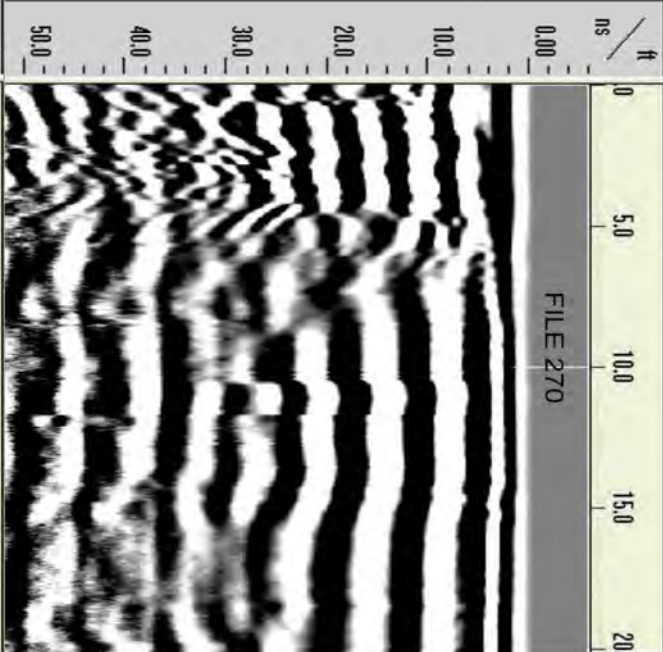
SOIL BORING 7-SB-09

SCALE: 1" = 5'

June 22, 2007

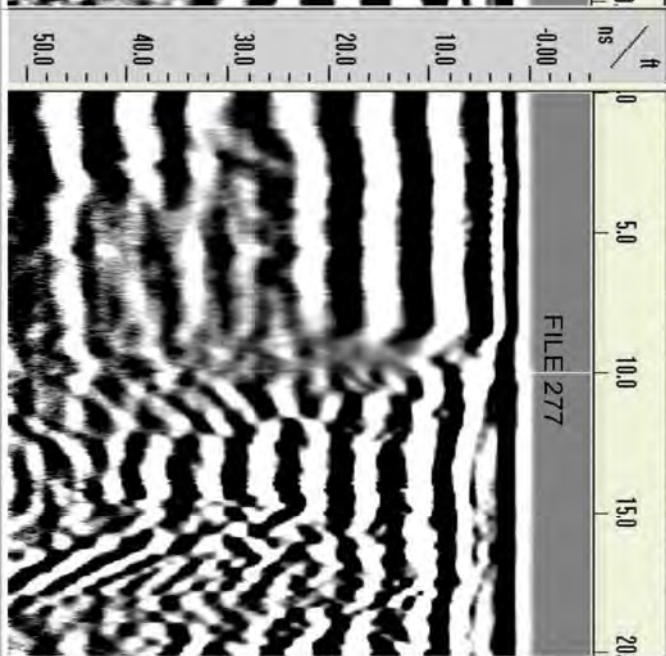
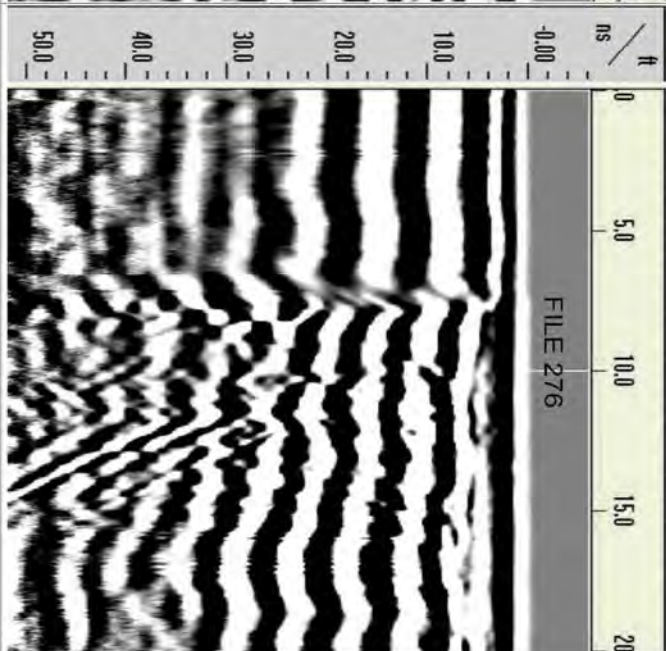
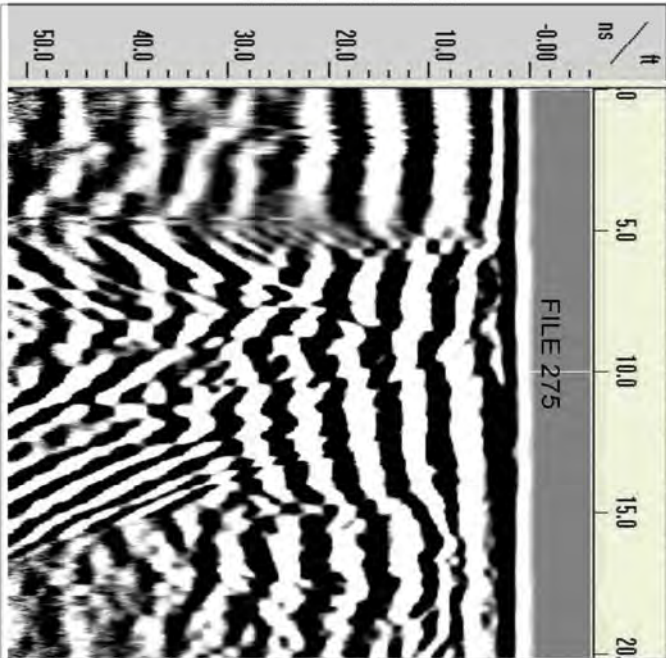
Soil Boring 7-SB-09

SOUTH TO NORTH



SOUTH TO NORTH

WEST TO EAST



WEST TO EAST

July 2 2007

Mr. Carl Young
Cabrera Services, Inc.
103 E. Mount Royal Ave. Ste. 2B
Baltimore, MD 21202

Re: Soil Boring 7-SB-10

Dear Carl,

Attached are the figures related to the geophysical survey performed by ARM Geophysics (ARM) at soil boring 7-SB-10 at the Dupont Chamber Works. As part of the survey, an ARM geophysicist established a 20 foot by 20 foot survey grid with the soil boring located at the center of the grid (X=10, Y=10). The northwestern portion of the grid was collected over concrete. ARM collected EM-61 data and ground penetrating radar (GPR) profiles on traverses spaced five feet apart and oriented in two directions.

The next two figures present the EM61 data from time gate 3 and time gate 4, respectively. The EM61 collects data in four time gates, time gates 3 and 4 represent increasing longer time gate, which translates to deeper data collection. As shown on the EM61 maps, the concrete appears to have rebar/reinforcement within it. The EM61 data is essentially all interference from the rebar.

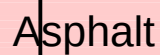
The third figure attached to this summary presents the GPR files collected at the boring location. Review of all of the GPR profiles indicated the presence of miscellaneous high intensity anomalies - some are typical of rebar within the concrete. There does not appear to be anomalies with characteristics of potential utilities; however, they may be masked due to the high intensity reflections of the subsurface.

After completion of the EM61 and GPR surveys, ARM surveyed the grid with a METROTECH 9690 utility locator using the 50/60 Hertz mode. In this mode, the locator scans the subsurface for active/loaded electrical lines. The utility locator did not detect the presence of active electrical lines within the survey grid.

Sincerely,

Beth A. Williams

Asphalt



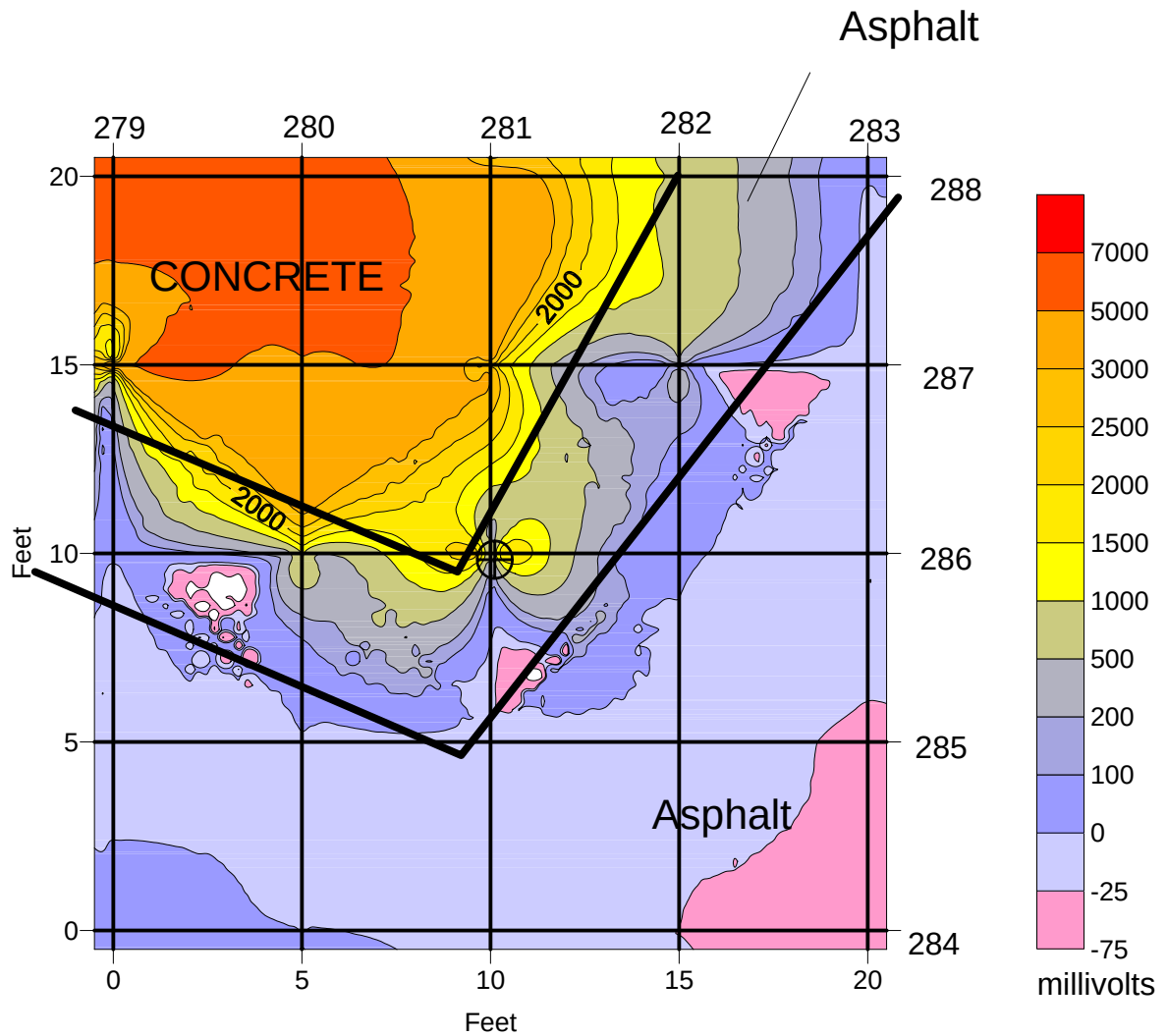
52500 magnetic contour line

Soil Boring 7-SB-10
located at [10,10]

ARM Geophysics

June 22, 2007

Time Gate 4



KEY

52500 magnetic contour line

043 GPR line with file number at start of profile

Soil Boring 7-SB-10
located at [10,10]

MAGNETIC CONTOURS
WITH GPR PROFILE LOCATIONS
DUPONT CHAMBERS WORKS, DEEPWATER, NEW JERSEY

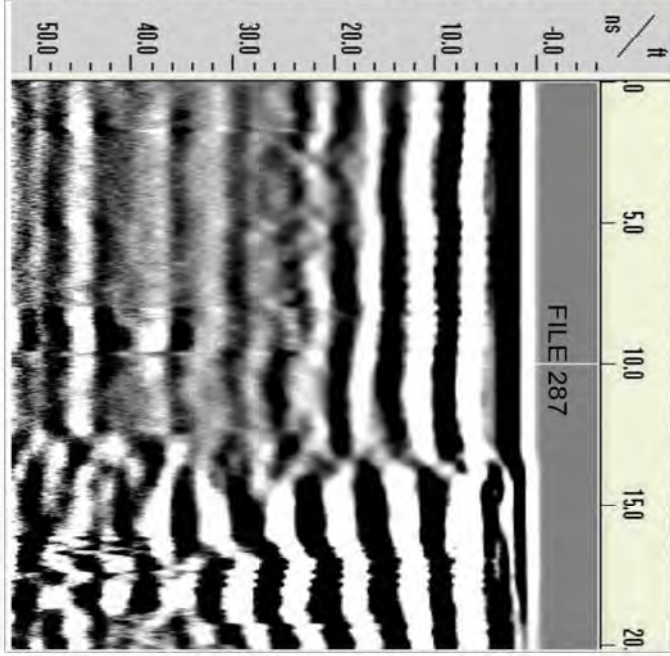
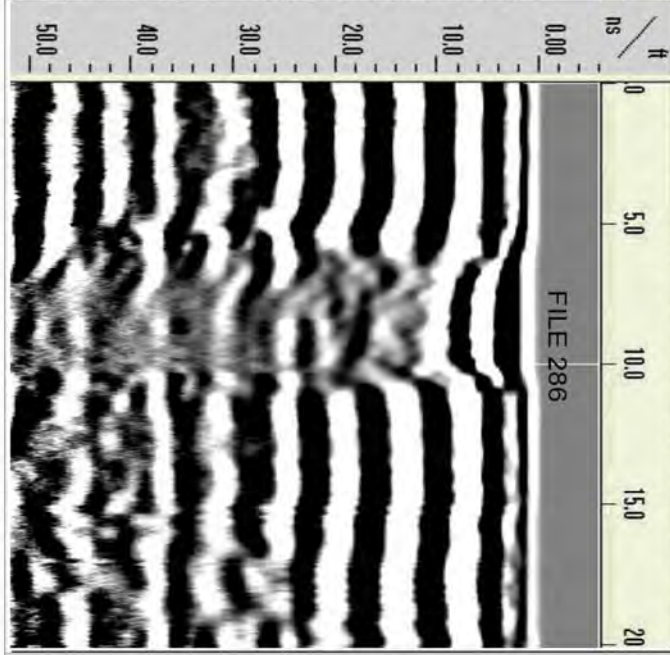
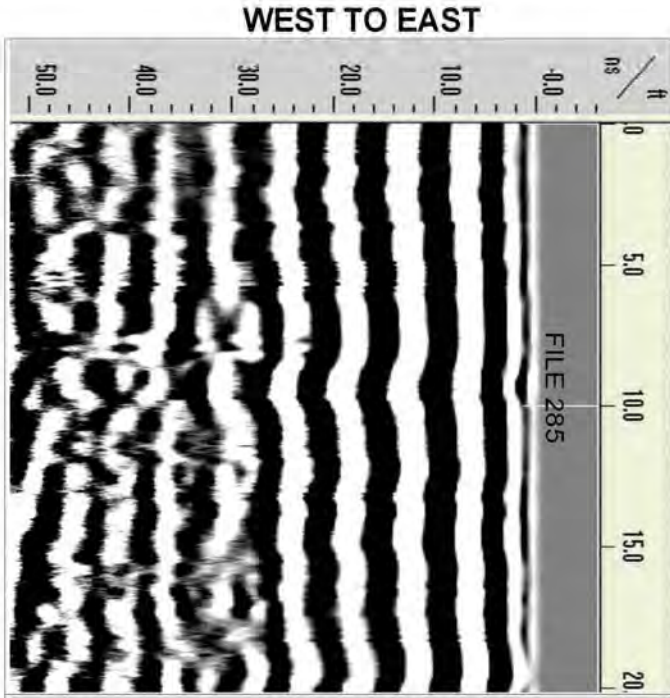
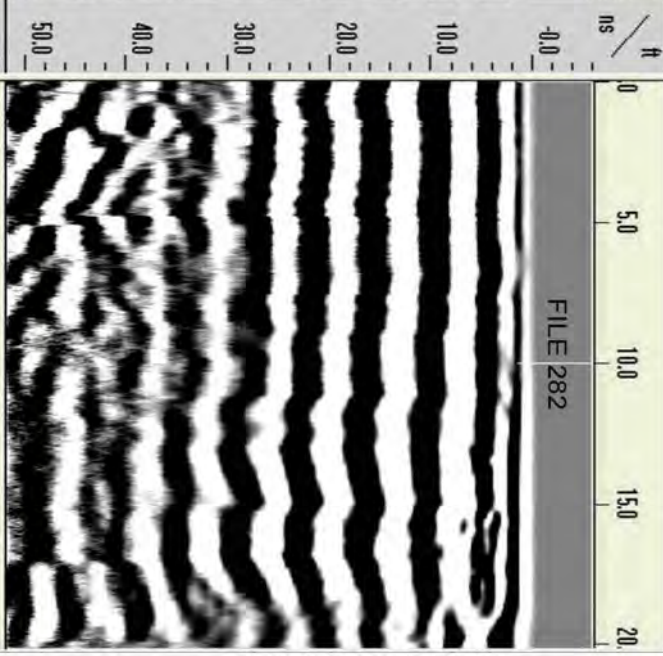
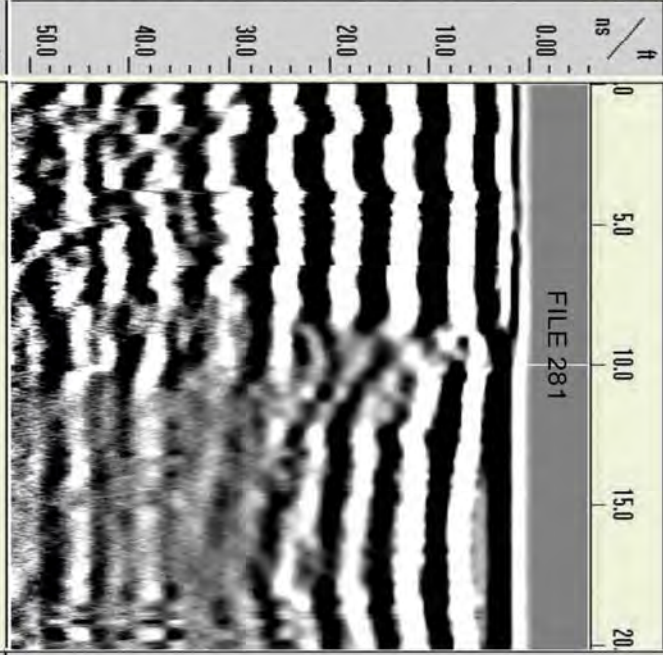
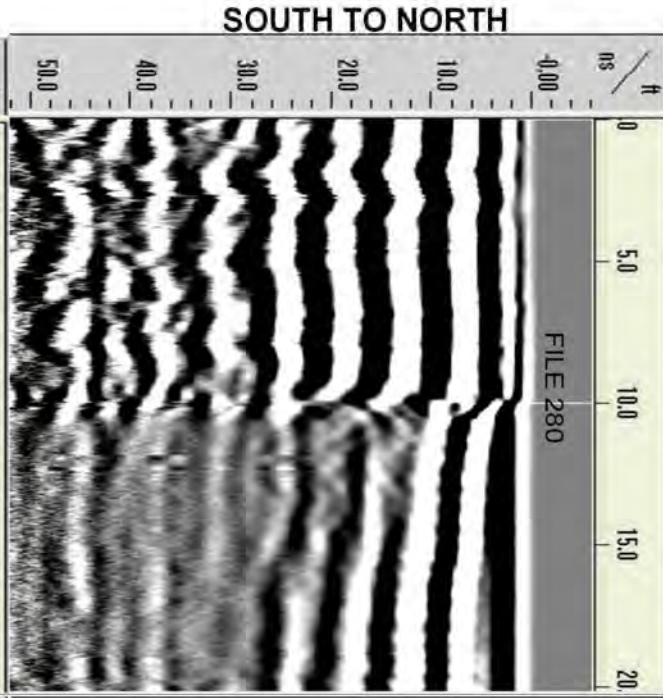
ARM Geophysics

SOIL BORING 7-SB-10

SCALE: 1" = 5'

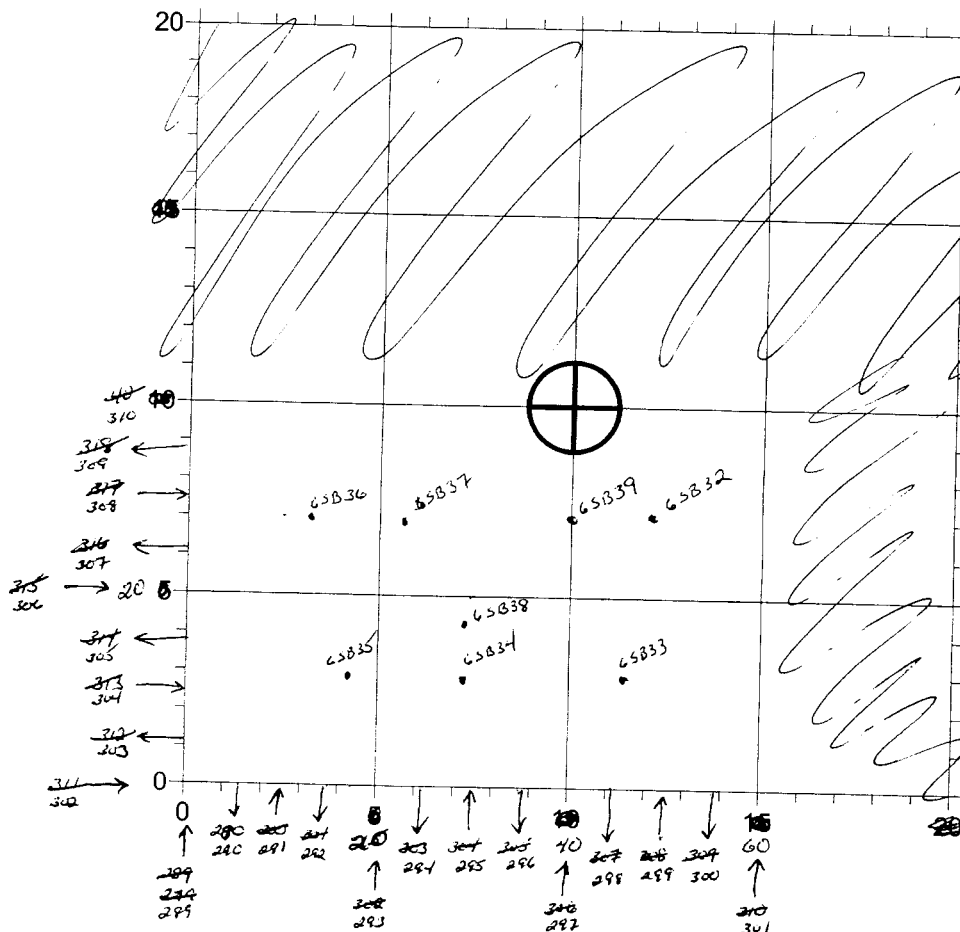
June 22, 2007

Soil Boring 7-SB-10



WEST TO EAST

SOUTH TO NORTH



survey area 60' x 36'
profile collected every 5'

GSB32 {50, 27}
GSB33 {43, 10}
GSB34 {30, 11}
GSB35 {18, 11}
GSB36 {12, 27}
GSB37 {22, 27}
GSB38 {32, 15}
GSB39 {40, 27}

SW N 313255.82
E 212256.95

NW N 313273.65
E 212265.14

SE N 313245.63
E 212285.22

NE N 313259.50
E 212291.02

corners
for GSB41

CH data filename GSB35

Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

June 2007

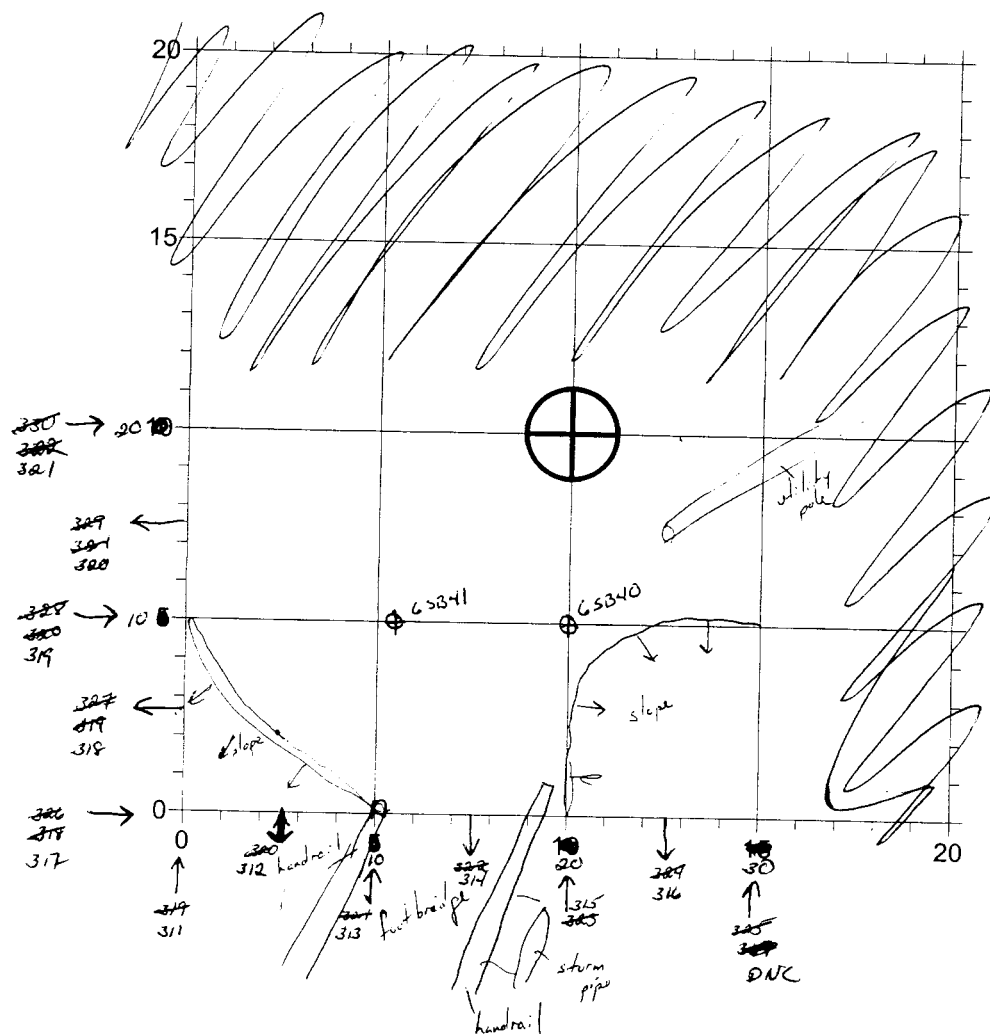
1"=5'

07271

ARM
GEOPHYSICS
Surface & Borehole Services

Surface & Borehole
Geophysics

Borehole #



survey area
30' x 20'
Elevation every 5'
points collected every 5'

↑ SW N 313165.99
 E 212266.83
 NW N 313202.27
 E 212266.42
 SE N 313166.80
 E 212326.96
 NE N 313202.07
 E 212327.56

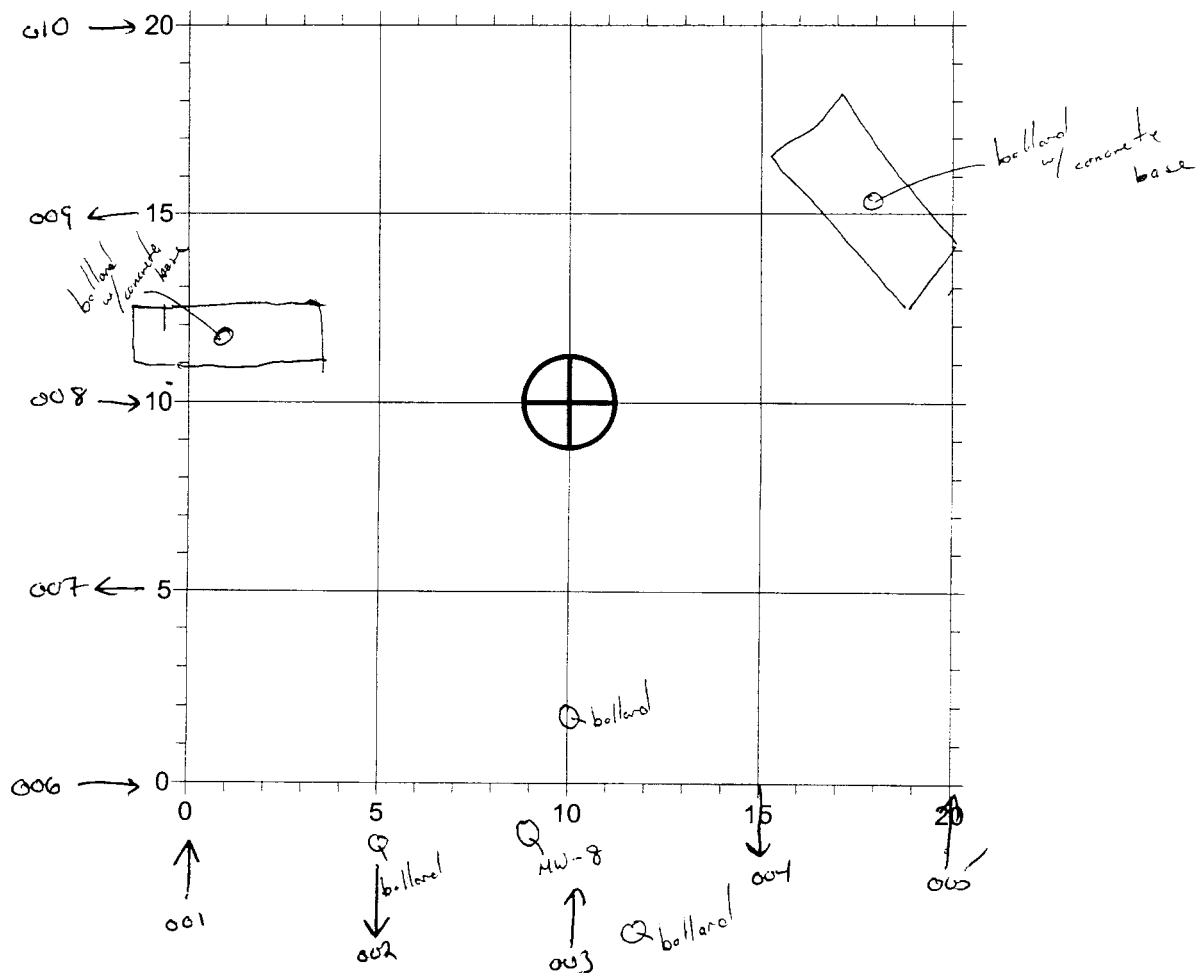
corners for
GSB35

EM Filename GSB41

NJ State Plane, US Ref

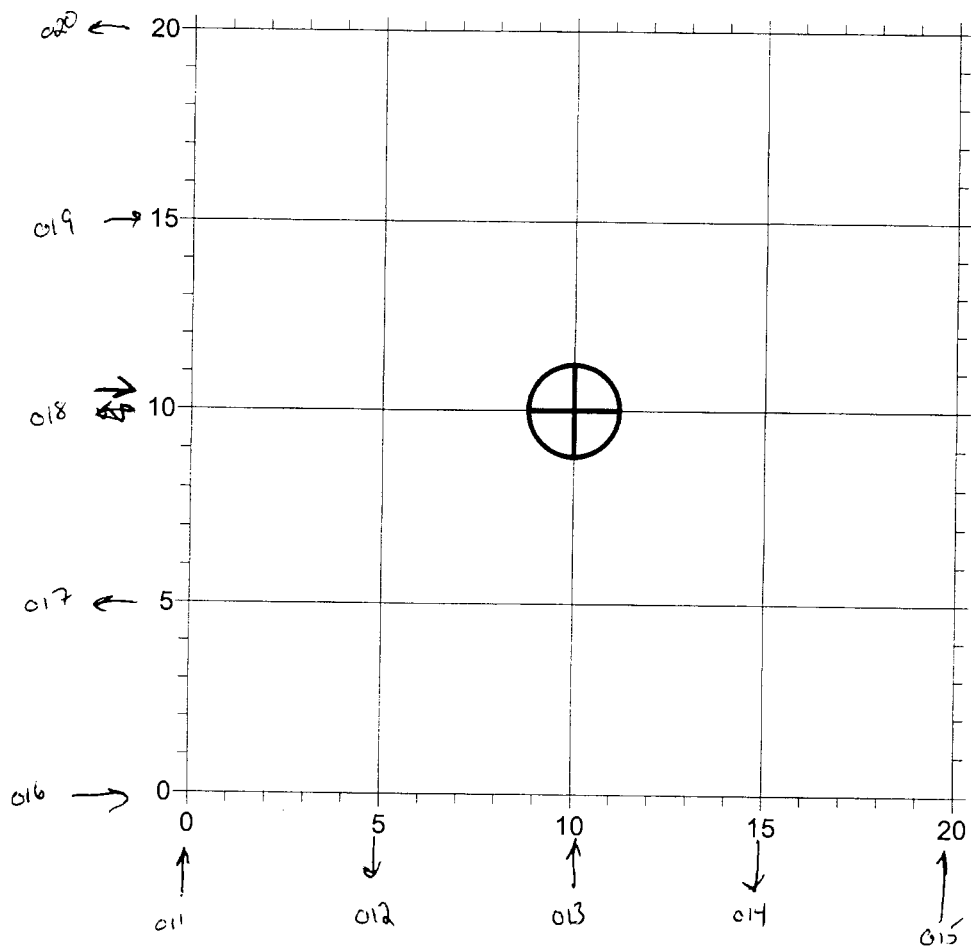
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole #

Surface & Borehole
Geophysics



↑ GPR file +
direction profile
was collected

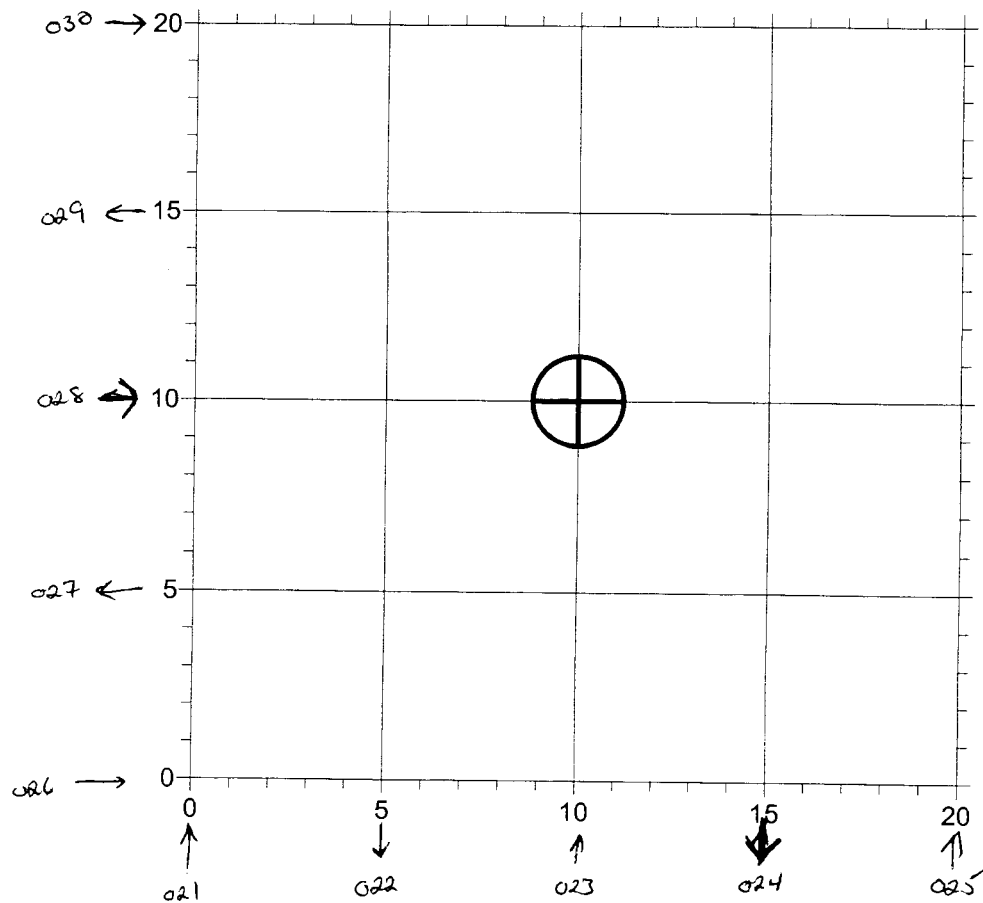
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
21 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 15BØ1



1 } GPR file #
011 + direction profile
was collected

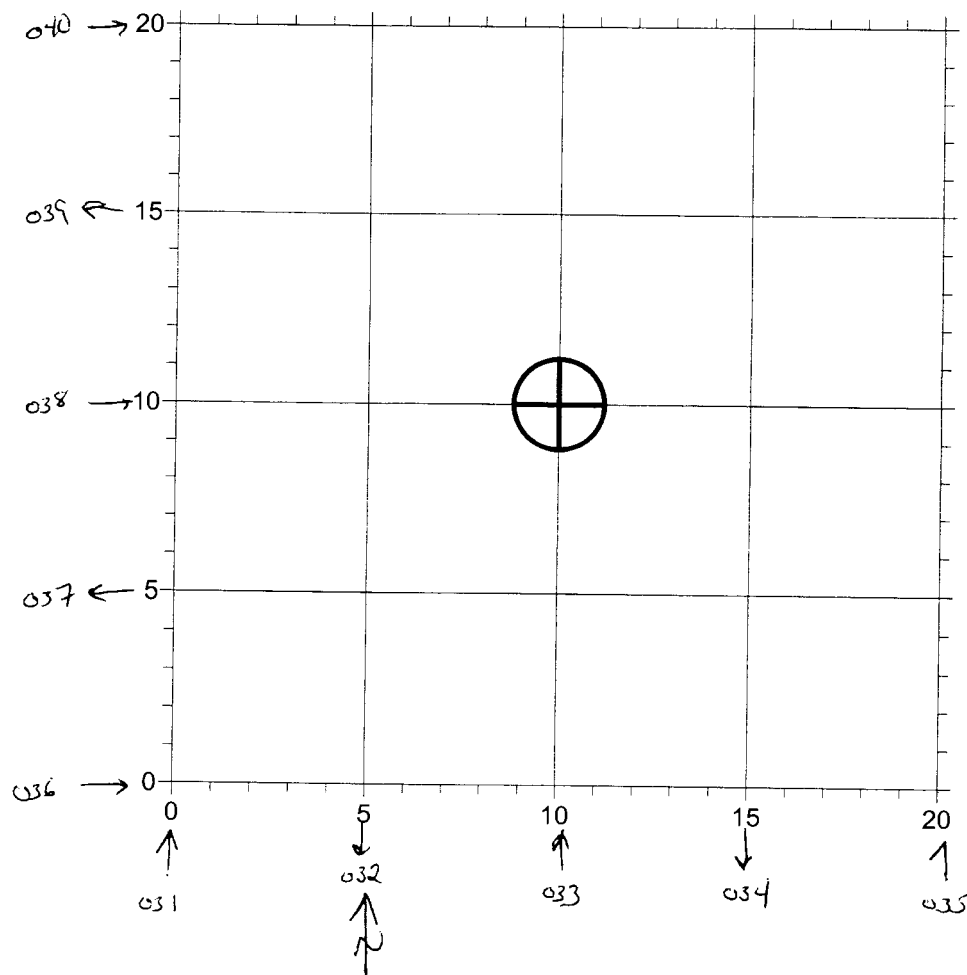
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
21 June 2007	1"=5'	07271
 Surface & Borehole Geophysics		Borehole # 15802

MW-11
 bollard
 bollard



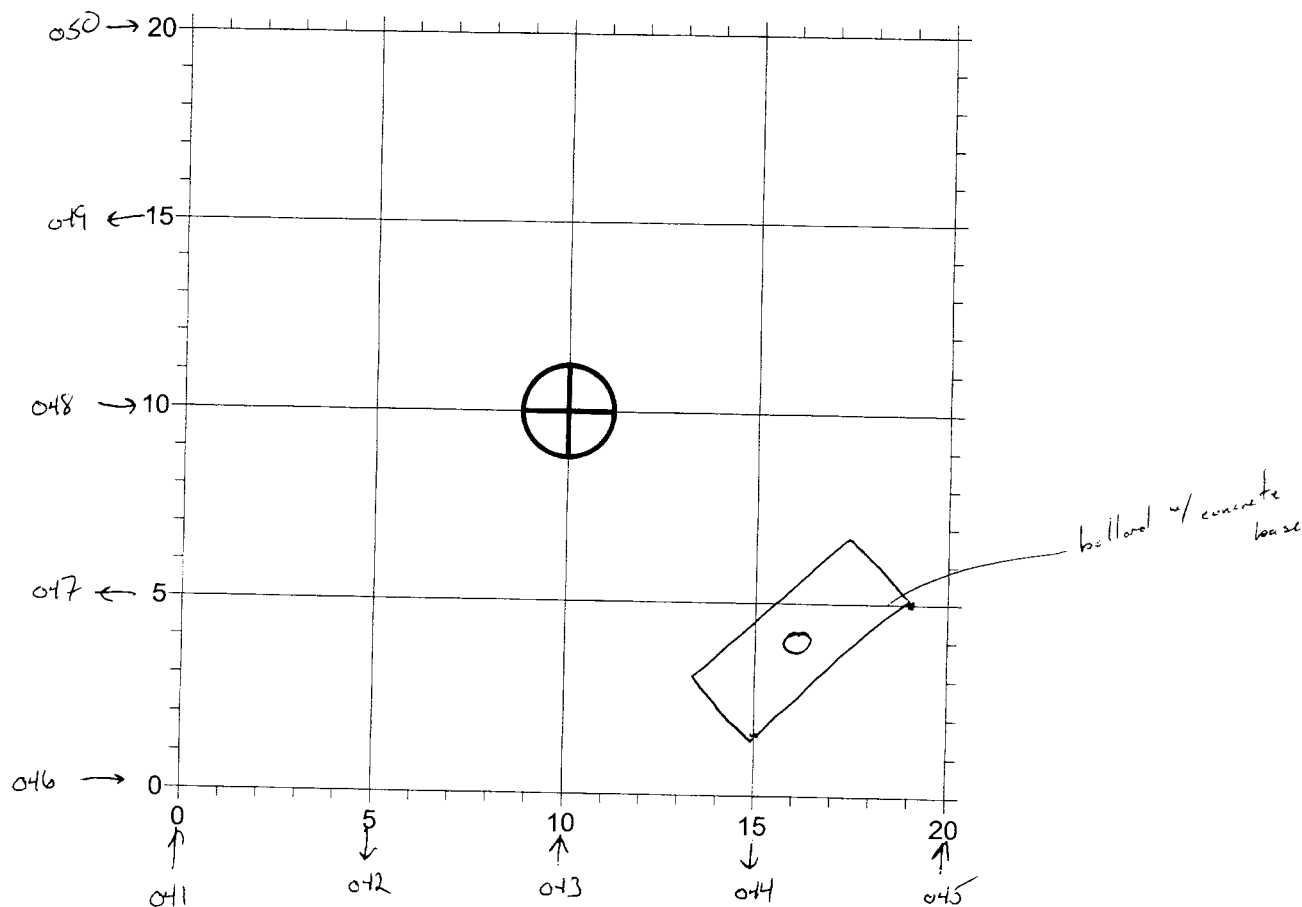
↑ } GPR profile name
 021 } + direction profile
 was collected

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
2 / June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 1 SB03



↑ GPR profile name
031 + direction profile
was collected

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
21 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 15B04



↑ } GPR profile name
041 } + direction profile
was collected

Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

21 June 2007

1"=5'

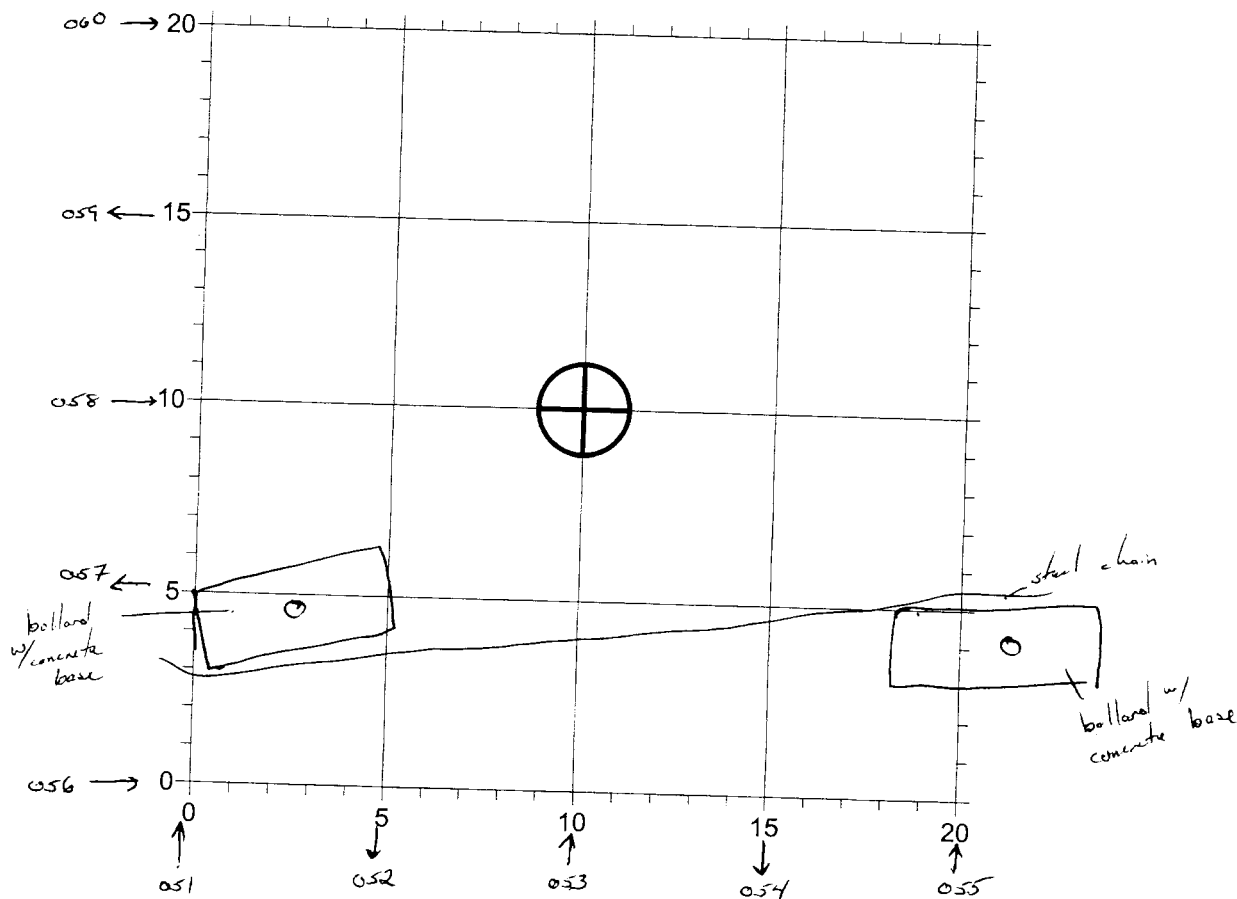
07271

ARM
GEOPHYSICS
Surface & Borehole Services

Surface & Borehole
Geophysics

Borehole #

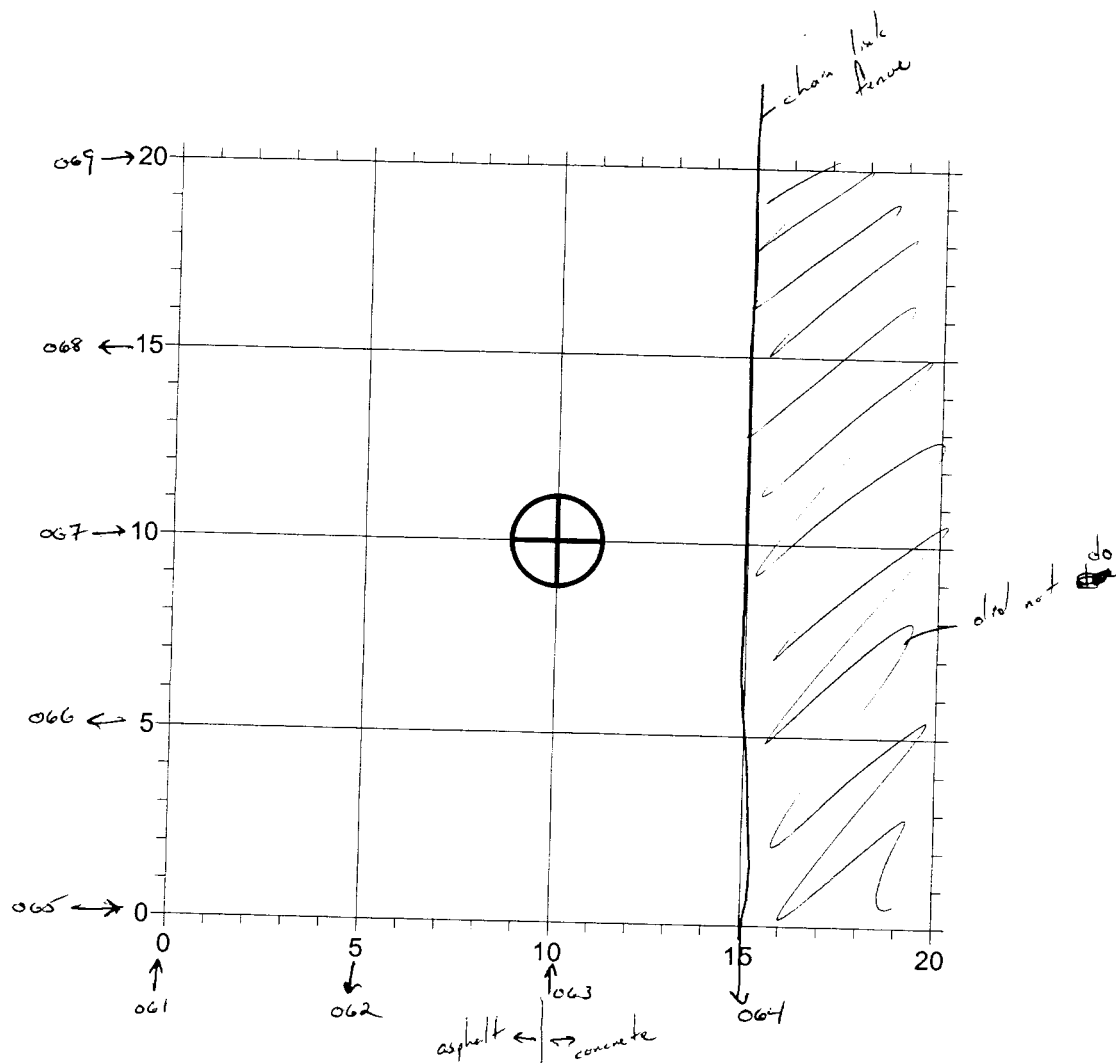
15805



↑ } GPR profile name
051 } + direction profile
was collected



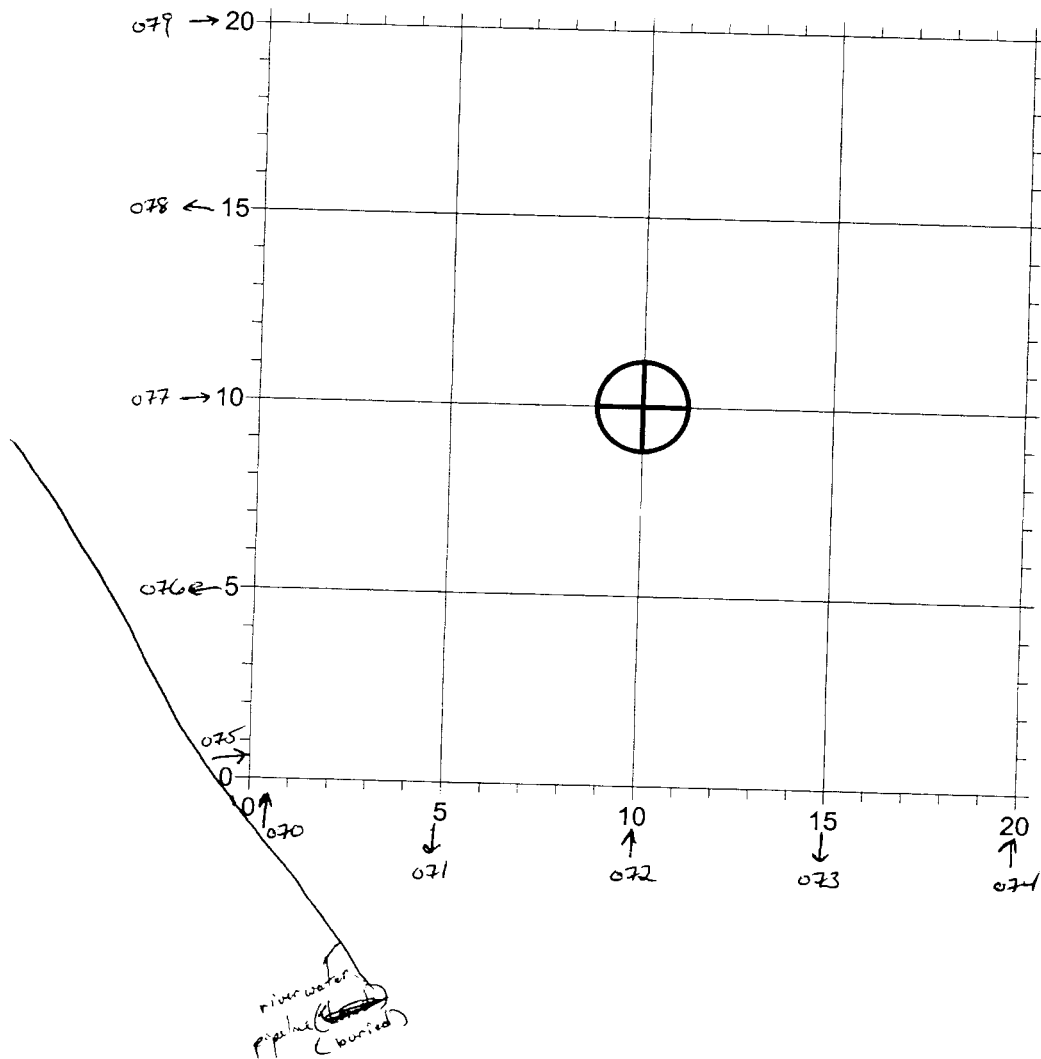
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
2 / June 2007	1"=5'	07271
ARM GEO PHYSICS Surface & Borehole Services		Borehole # 25806



↑ } GPR Profile name
 061 } + direction of
 profile was collected



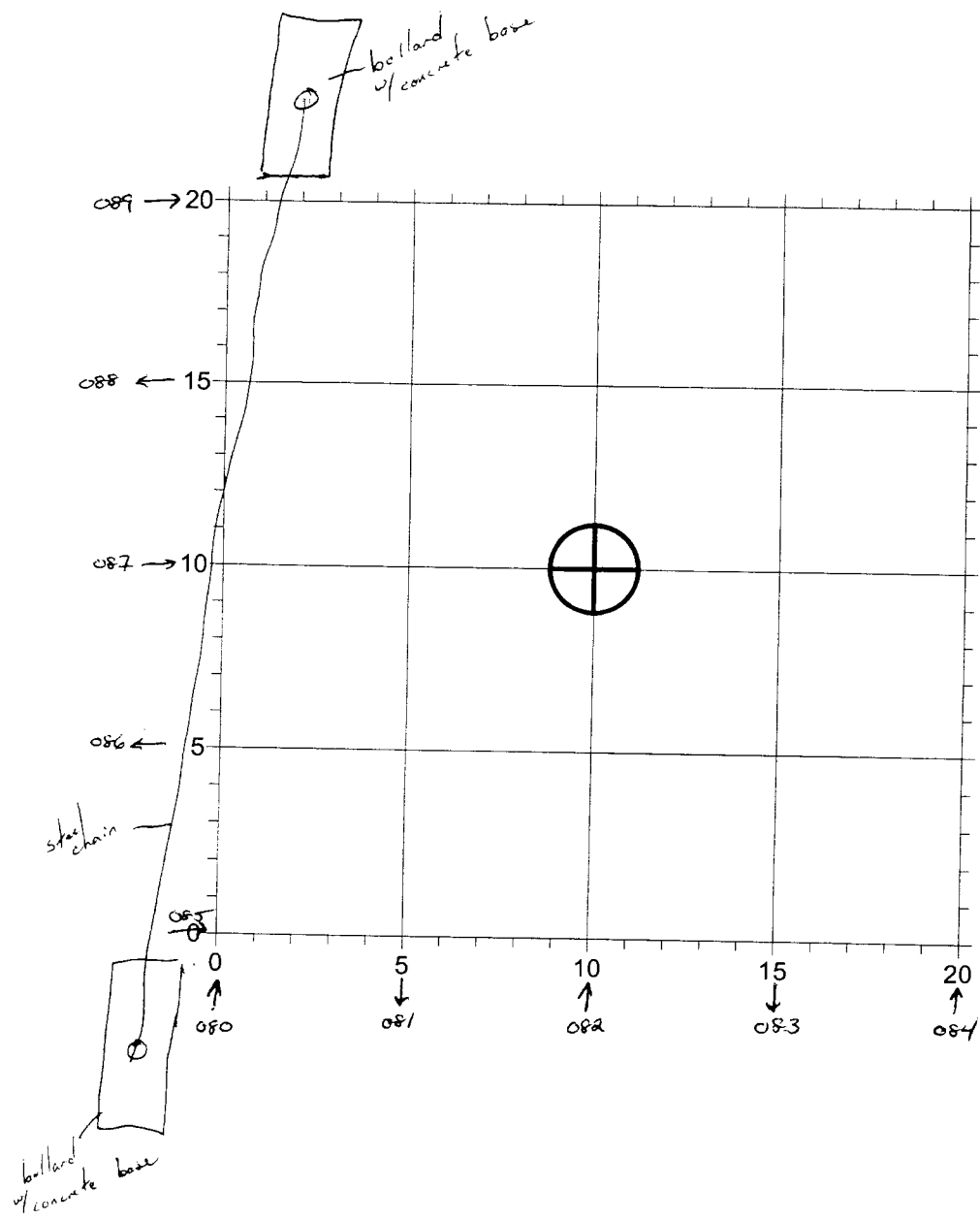
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
2 / June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 25867



↑ } GPR profile name
070 } & direction profile
was collected



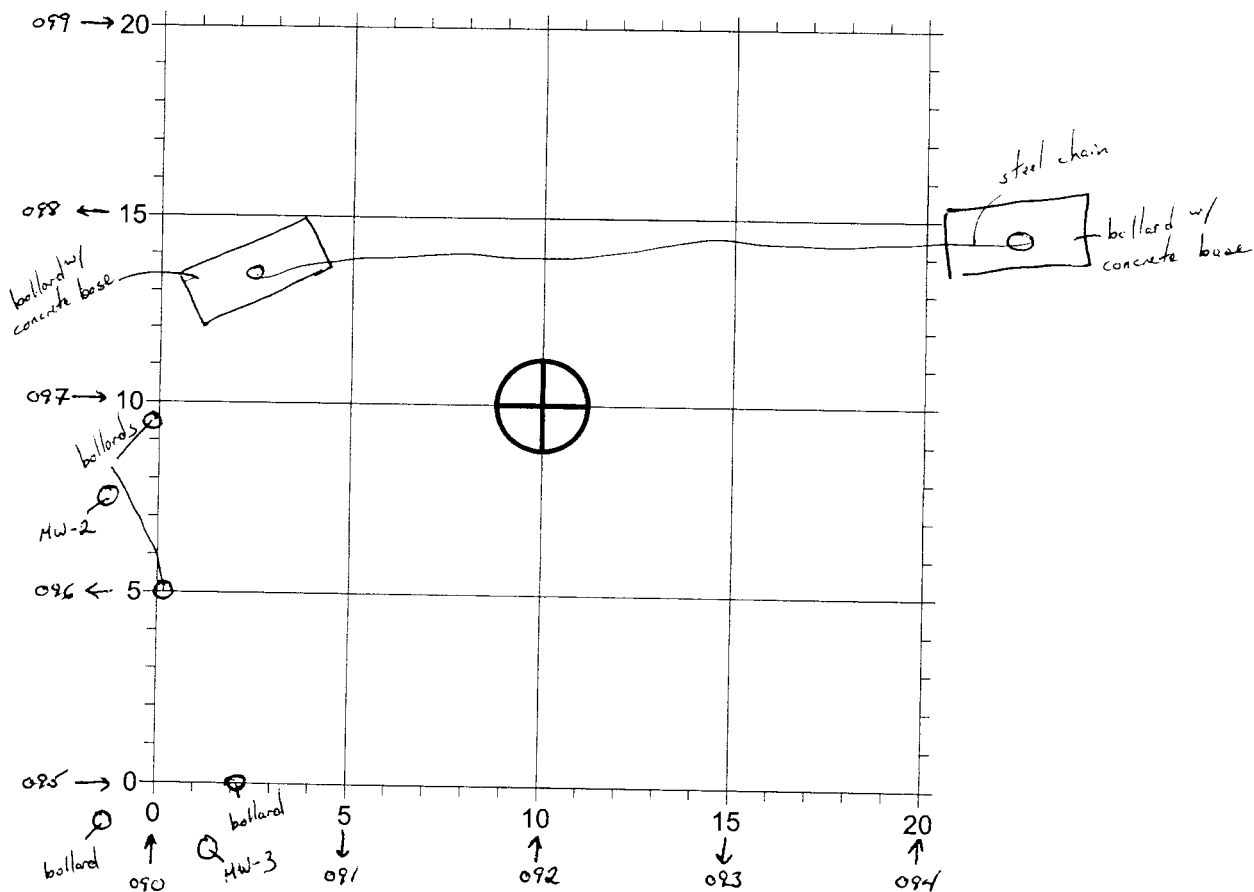
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
2 / June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 25808



↑ GPR Profile name
 + direction
 profile was collected



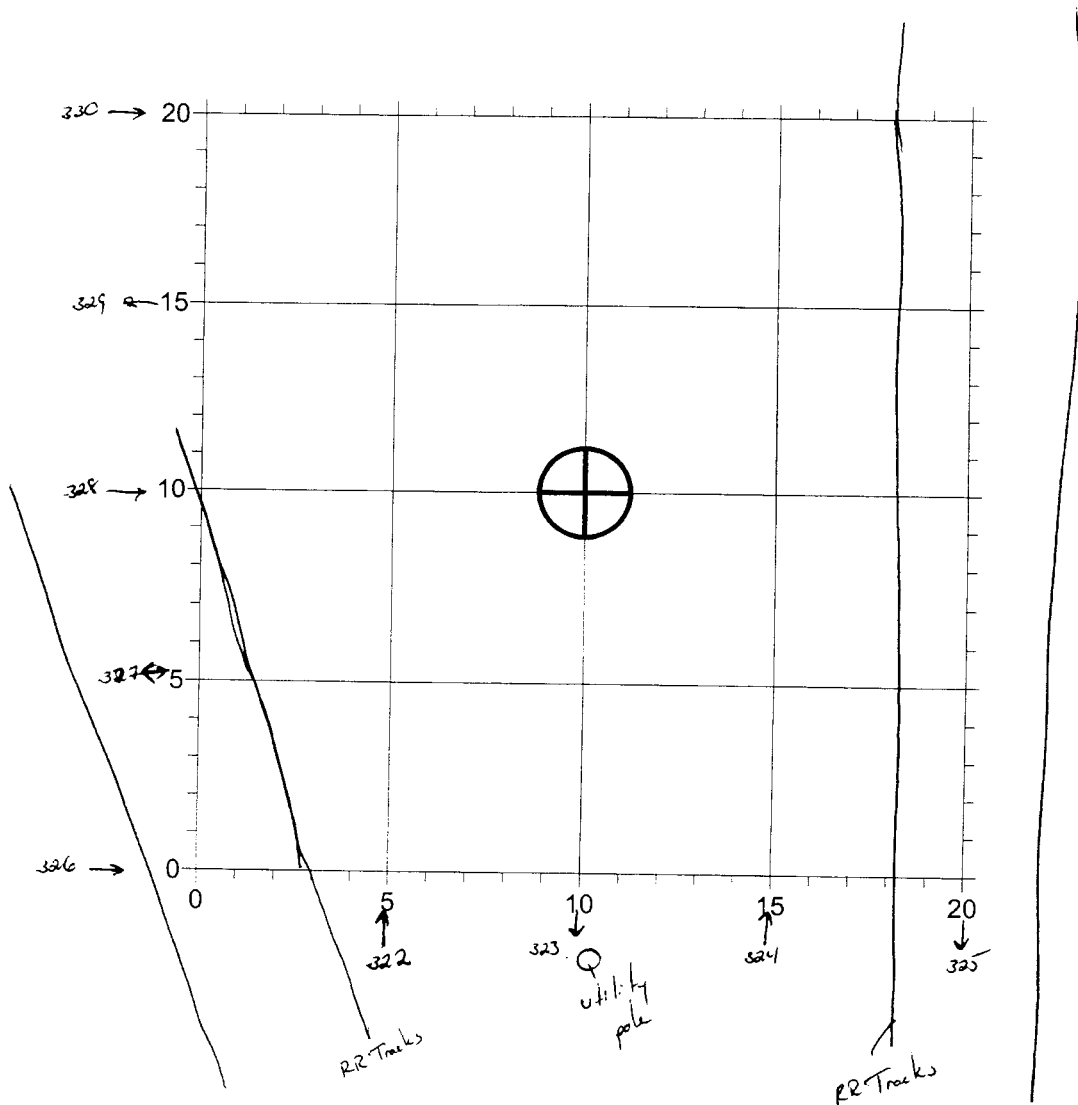
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
2 / June 2007	1"=5'	07271
ARM GEO PHYSICS Surface & Borehole Services		Borehole # 25809



↑ 4PR profile name
 090 } + direction
 profile was collected



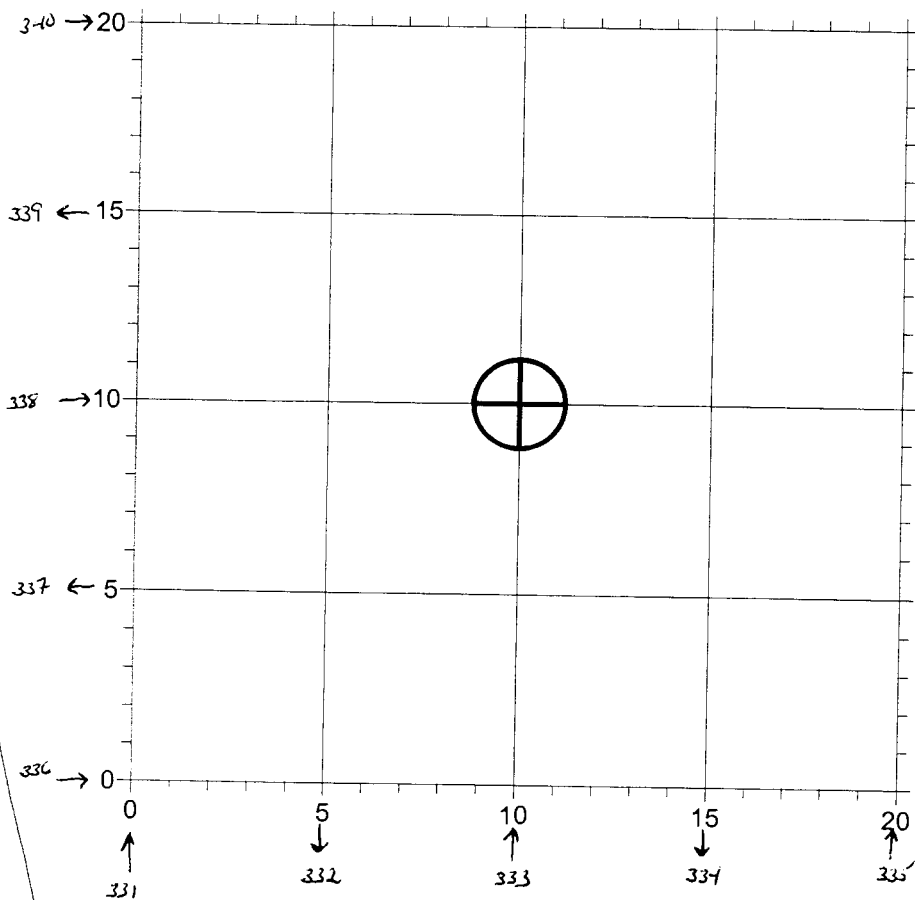
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
21 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 25810



files 326 → 330 collected b/w 5' & 15'

↑
2

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 35B30



Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

June 2007

1"=5'

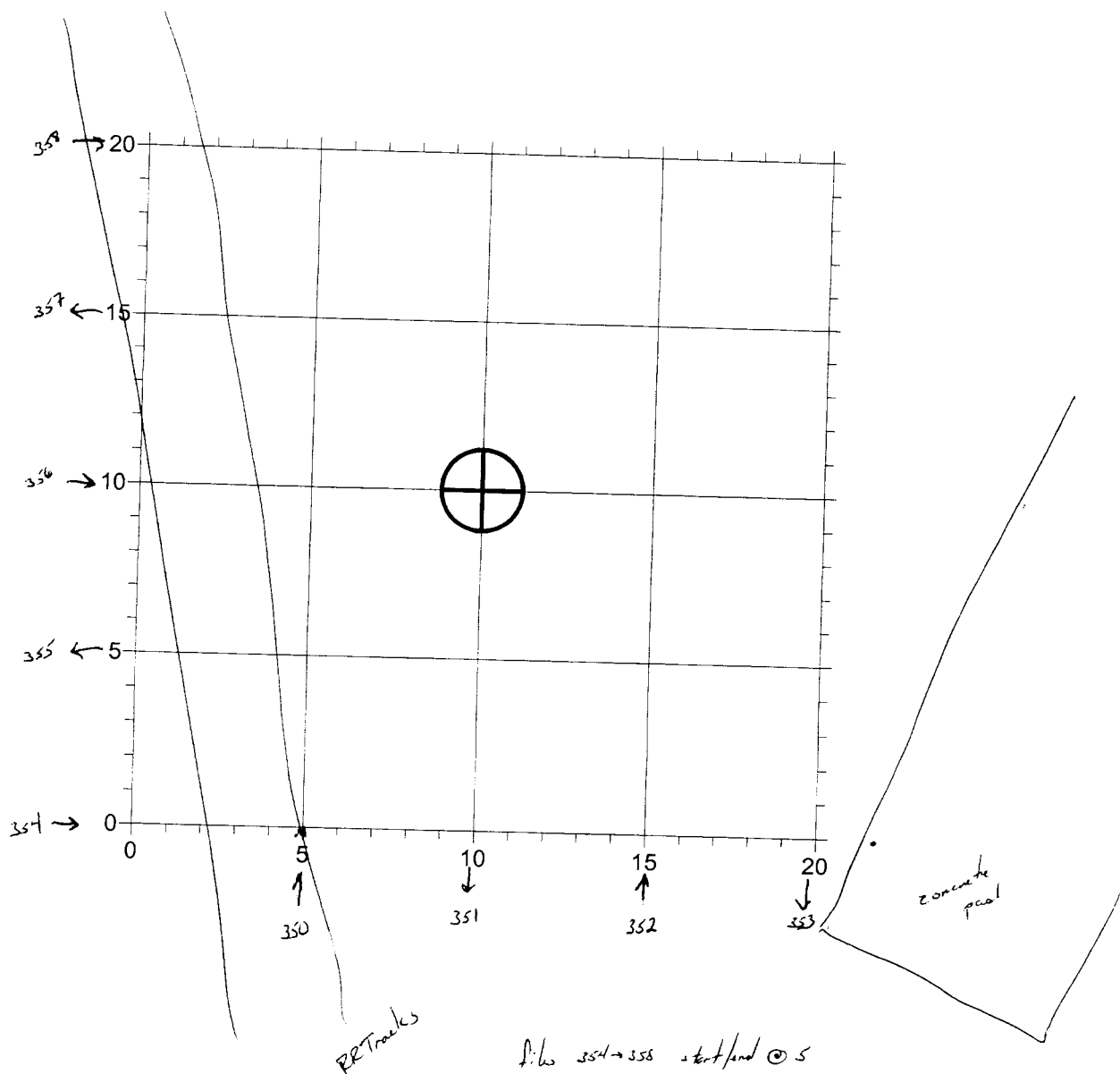
07271



Surface & Borehole
Geophysics

Borehole #

35831



Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

June 2007

1"=5'

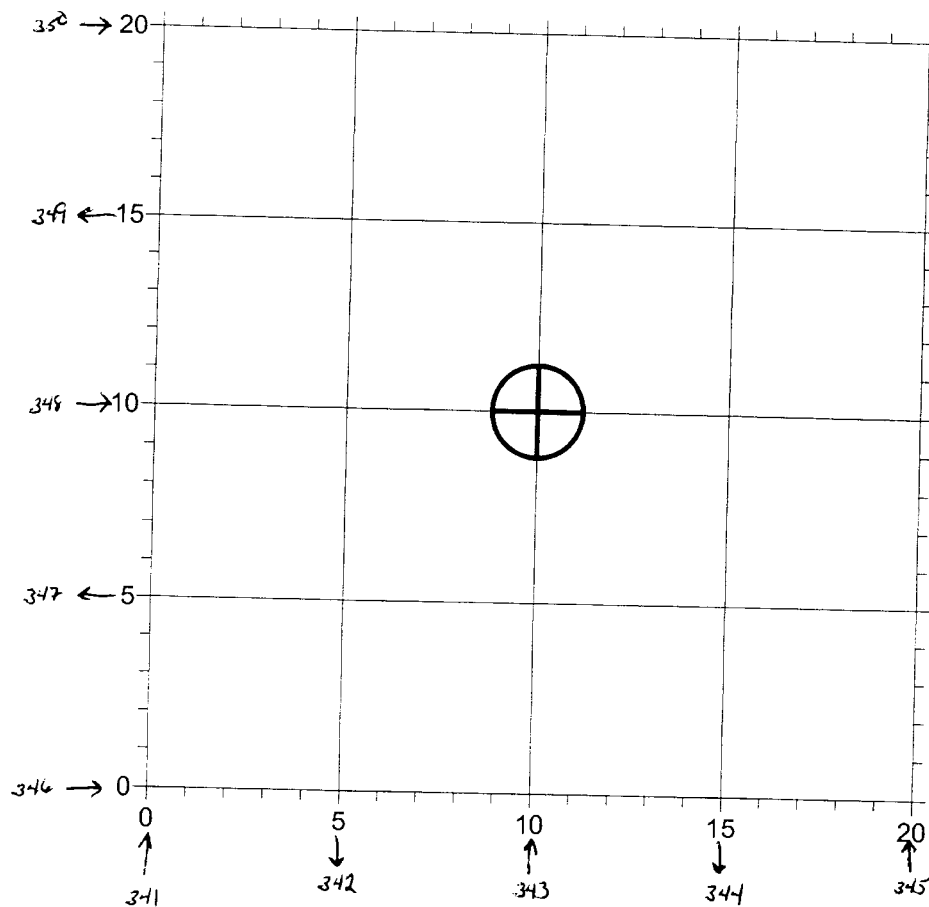
07271



Surface & Borehole
Geophysics

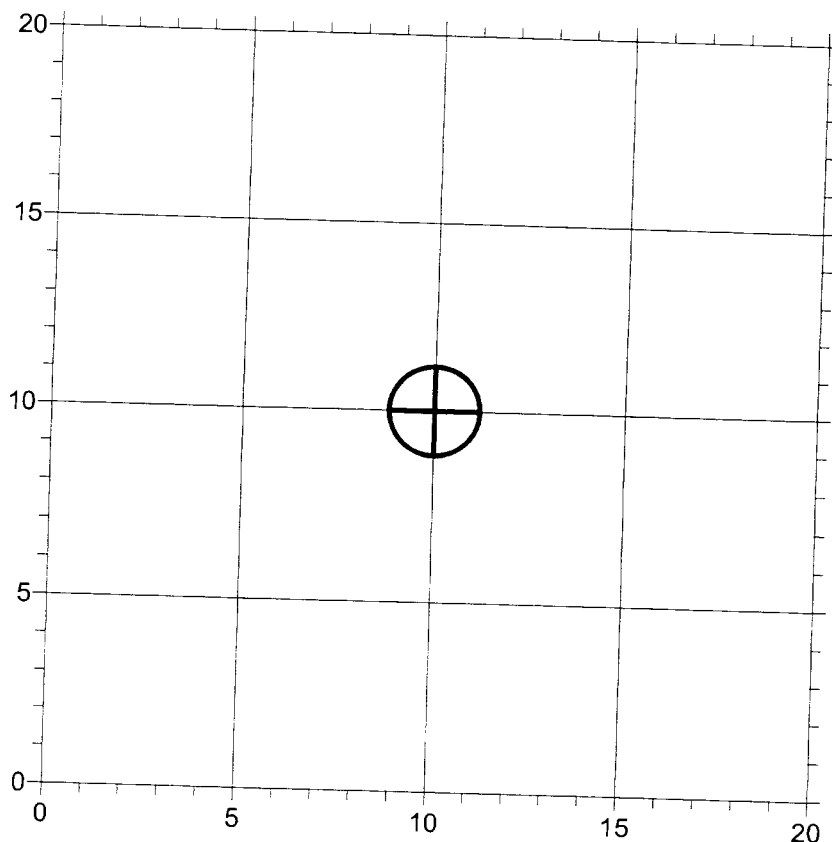
Borehole #

35832



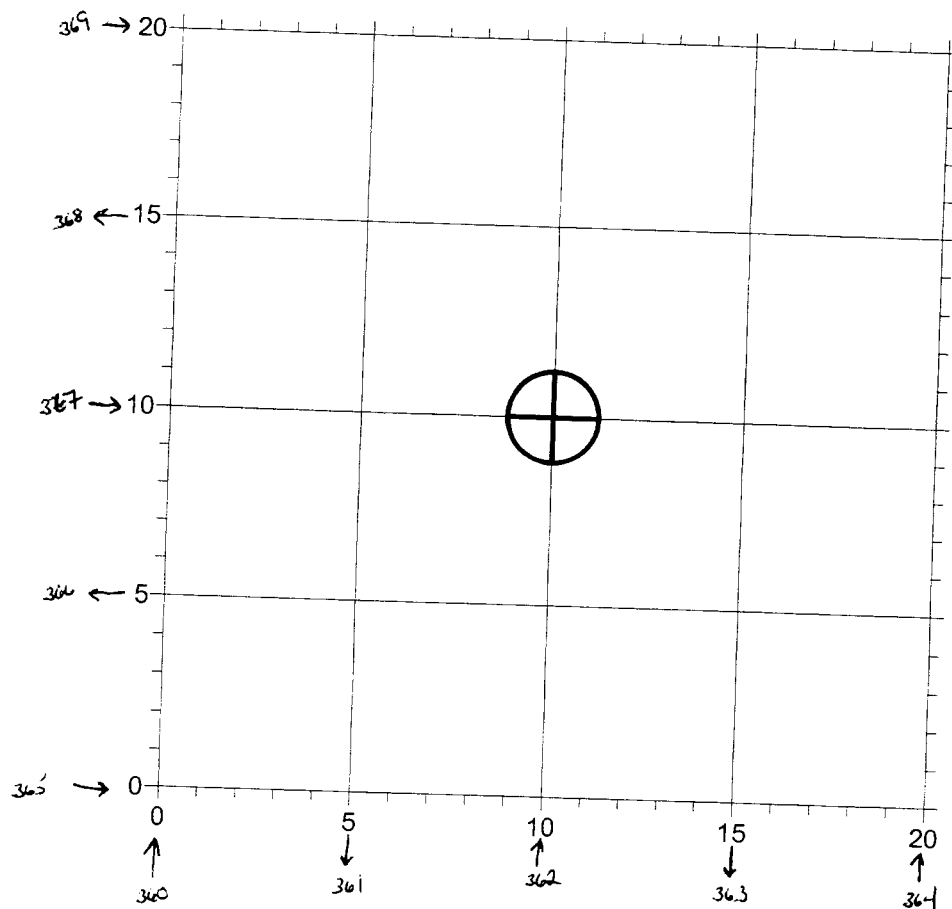
↑
2

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 35833



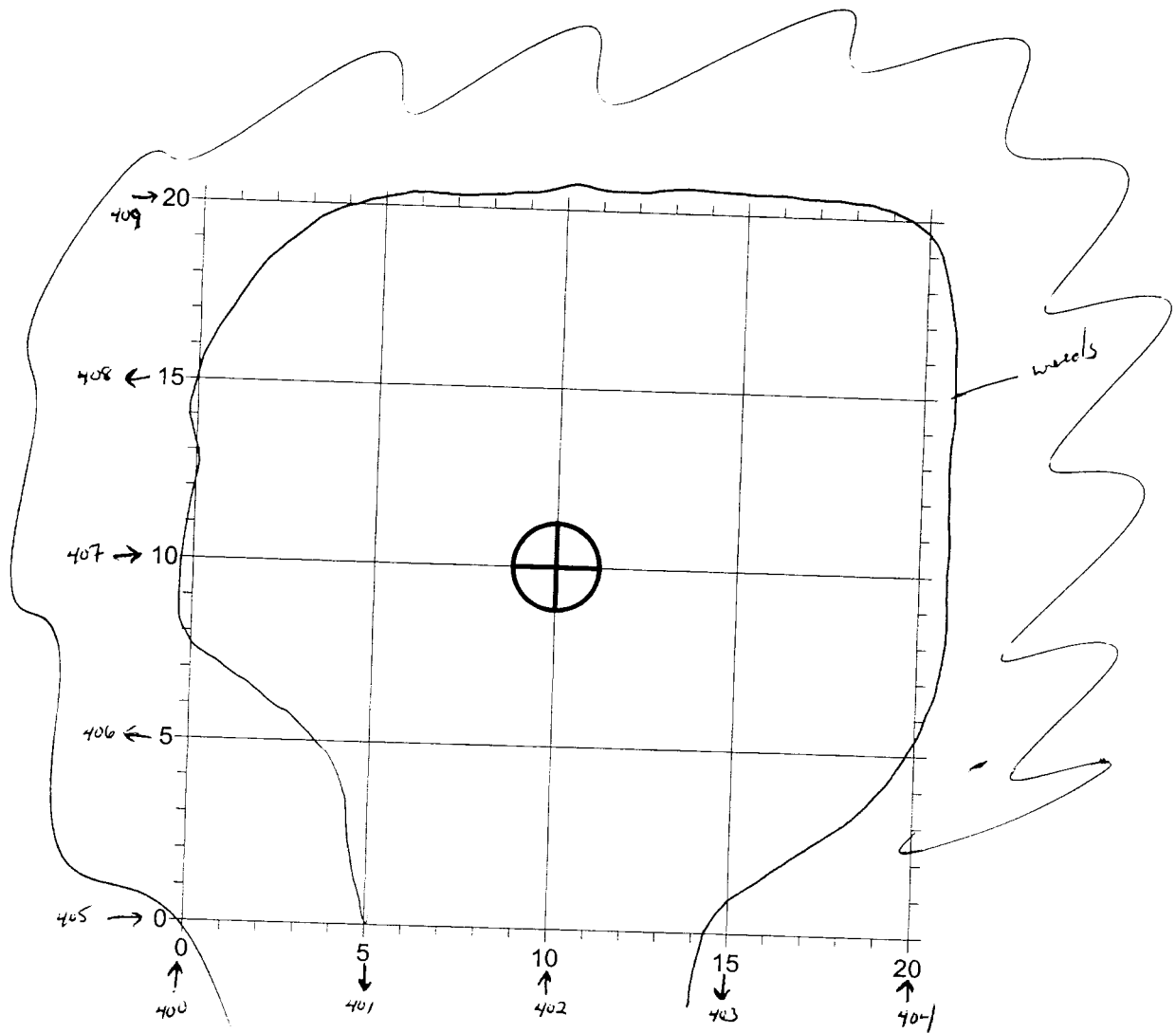
* borehole not done, portable generator directly over borehole location. Client requested that we skip over location

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
 Surface & Borehole Geophysics		Borehole # 35834



2

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 35835



400 - starts @ 5 ends @ 15
401 - " @ 15 " @ 15
404 - " @ 15 " @ 15
405 - " @ 5 " @ 20

N ↑

Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

June 2007

1"=5'

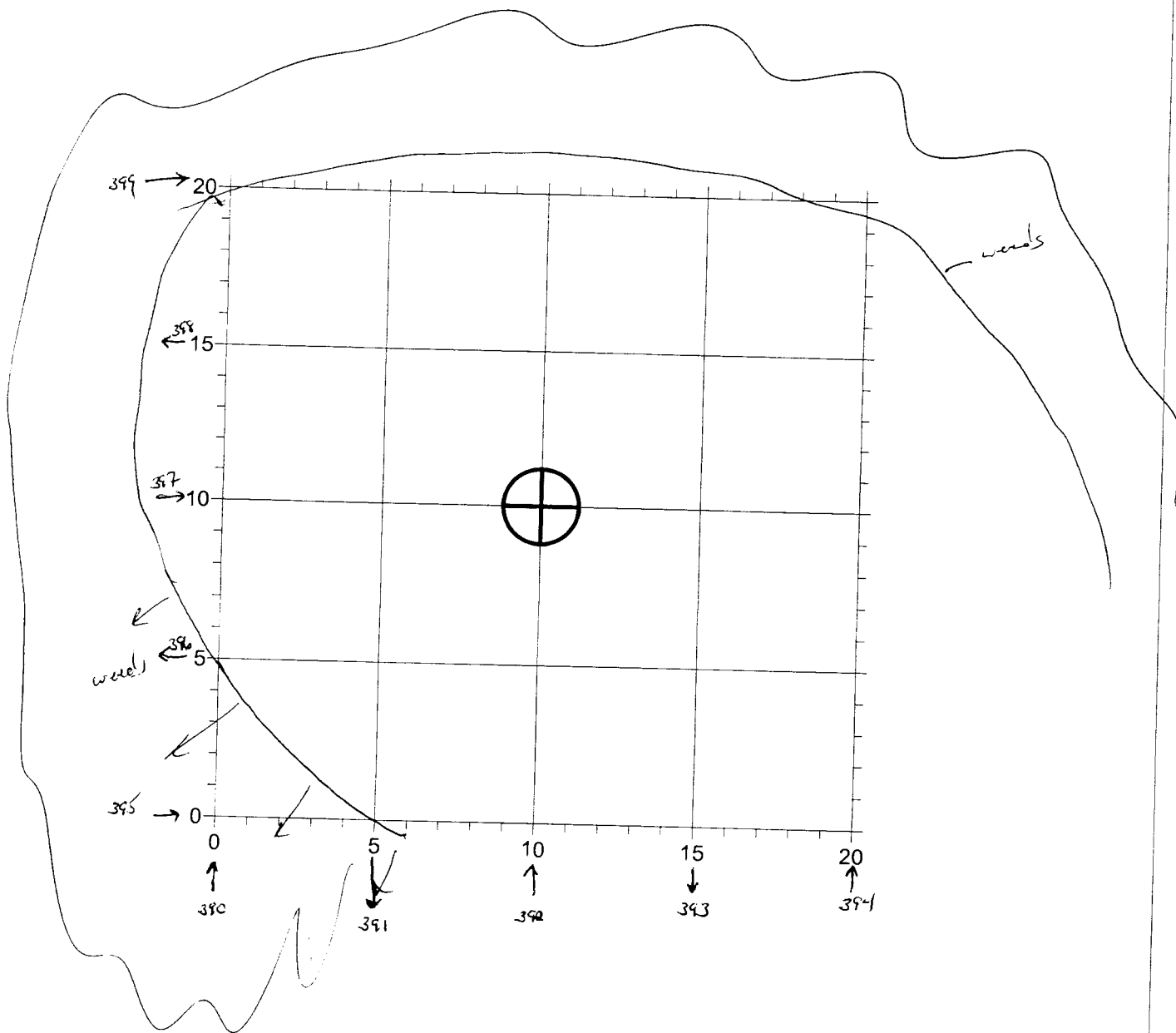
07271

ARM
GEOPHYSICS
Surface & Borehole Services

Surface & Borehole
Geophysics

Borehole #

35B36



Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

June 2007

1"=5'

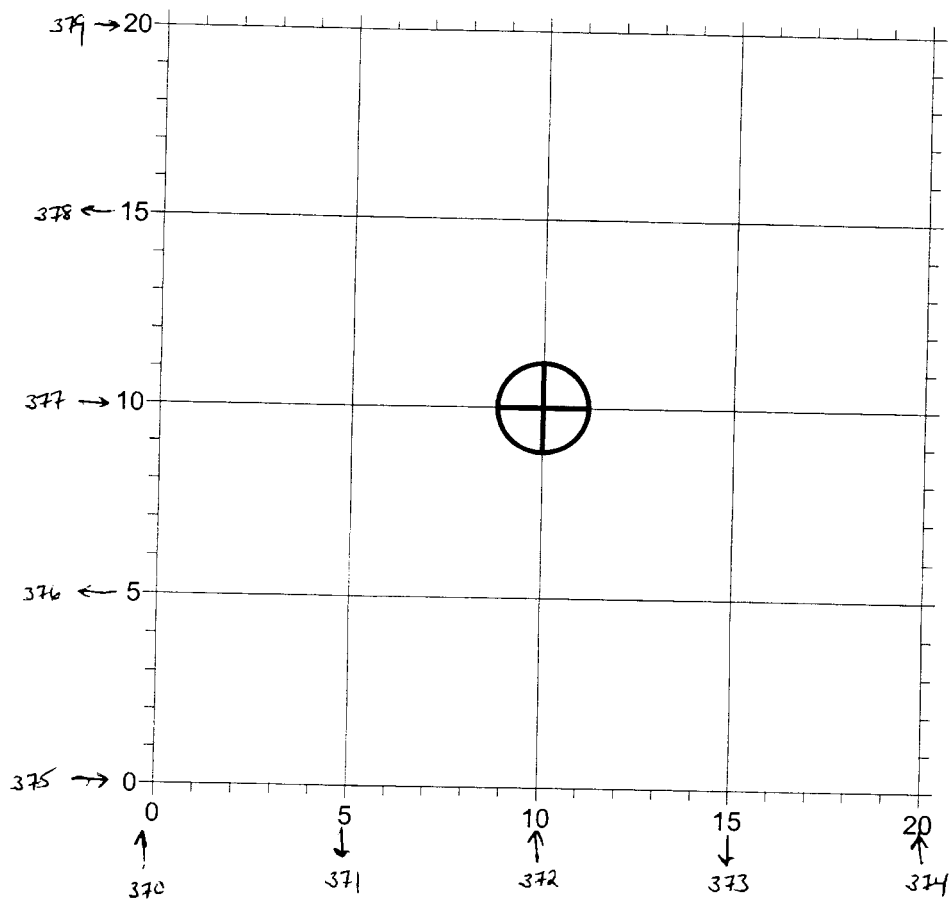
07271



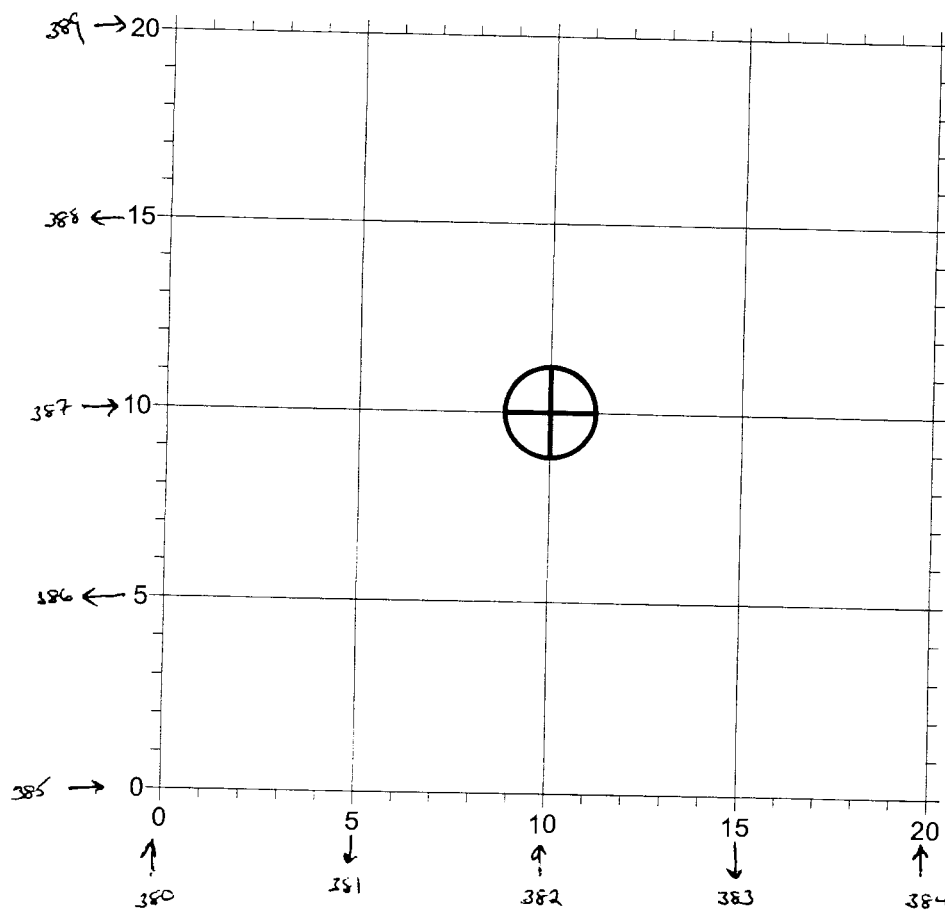
Surface & Borehole
Geophysics

Borehole #

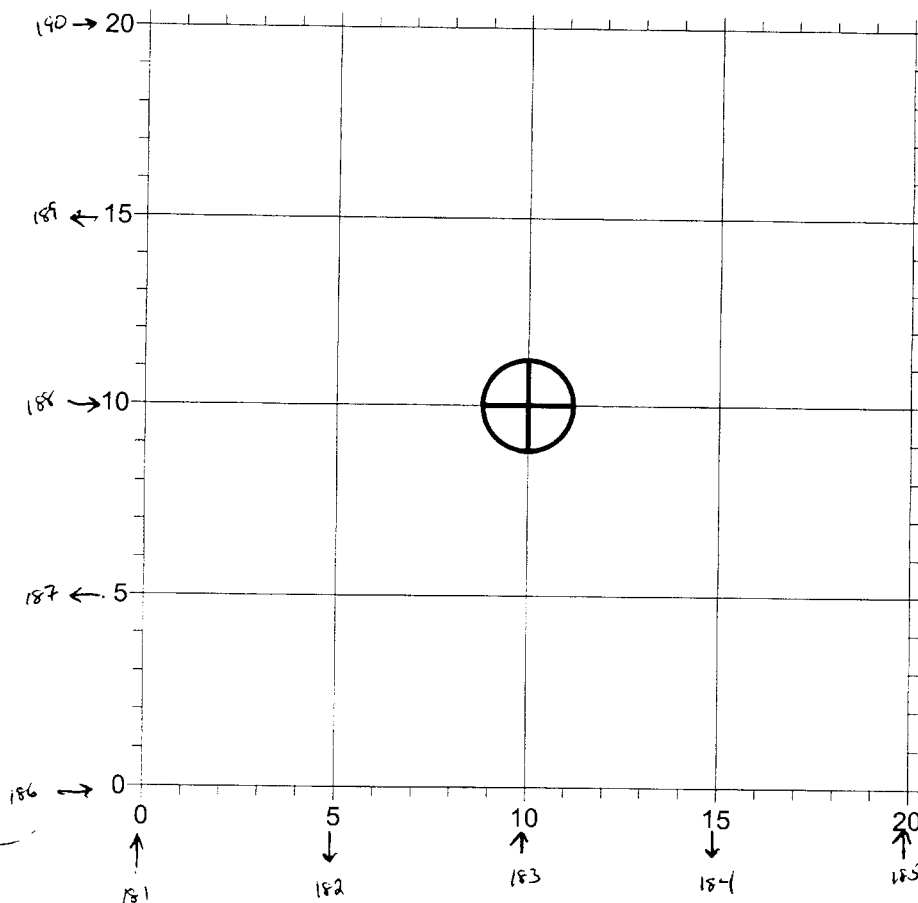
35837



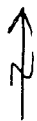
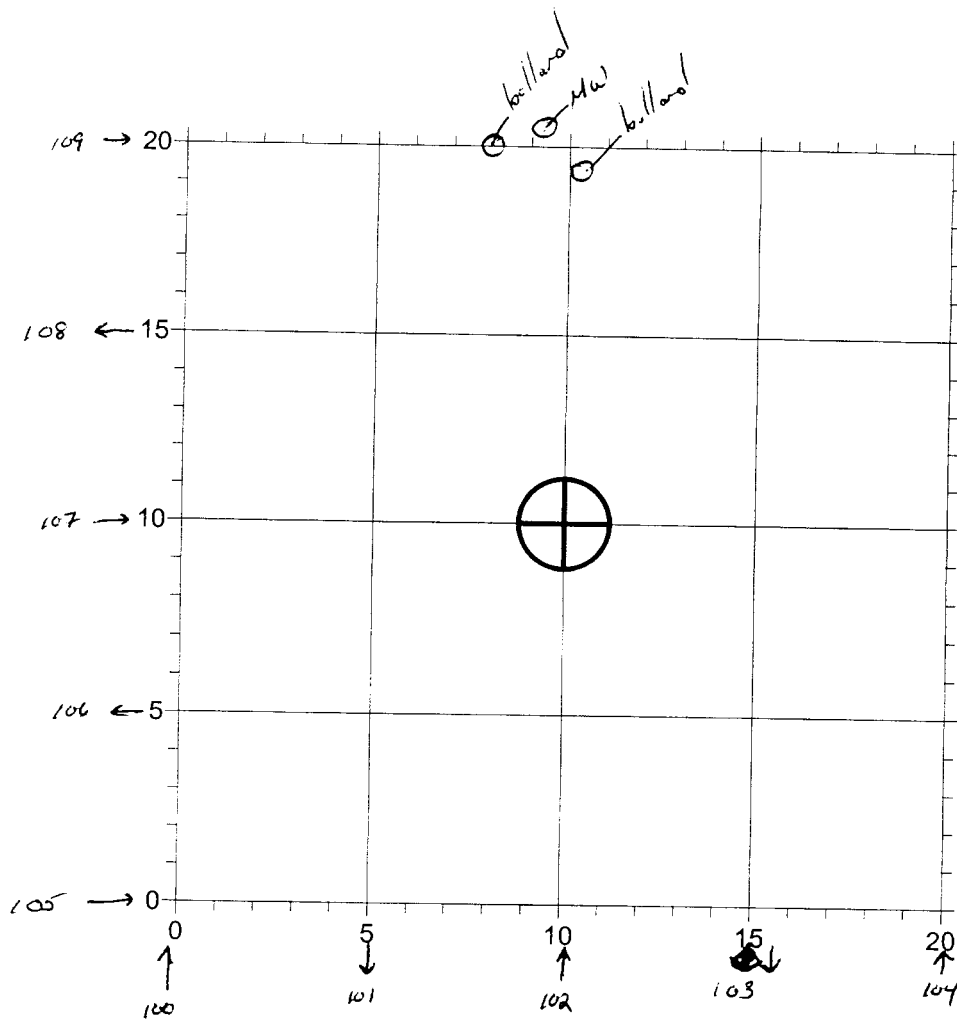
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 35838



Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 258.39

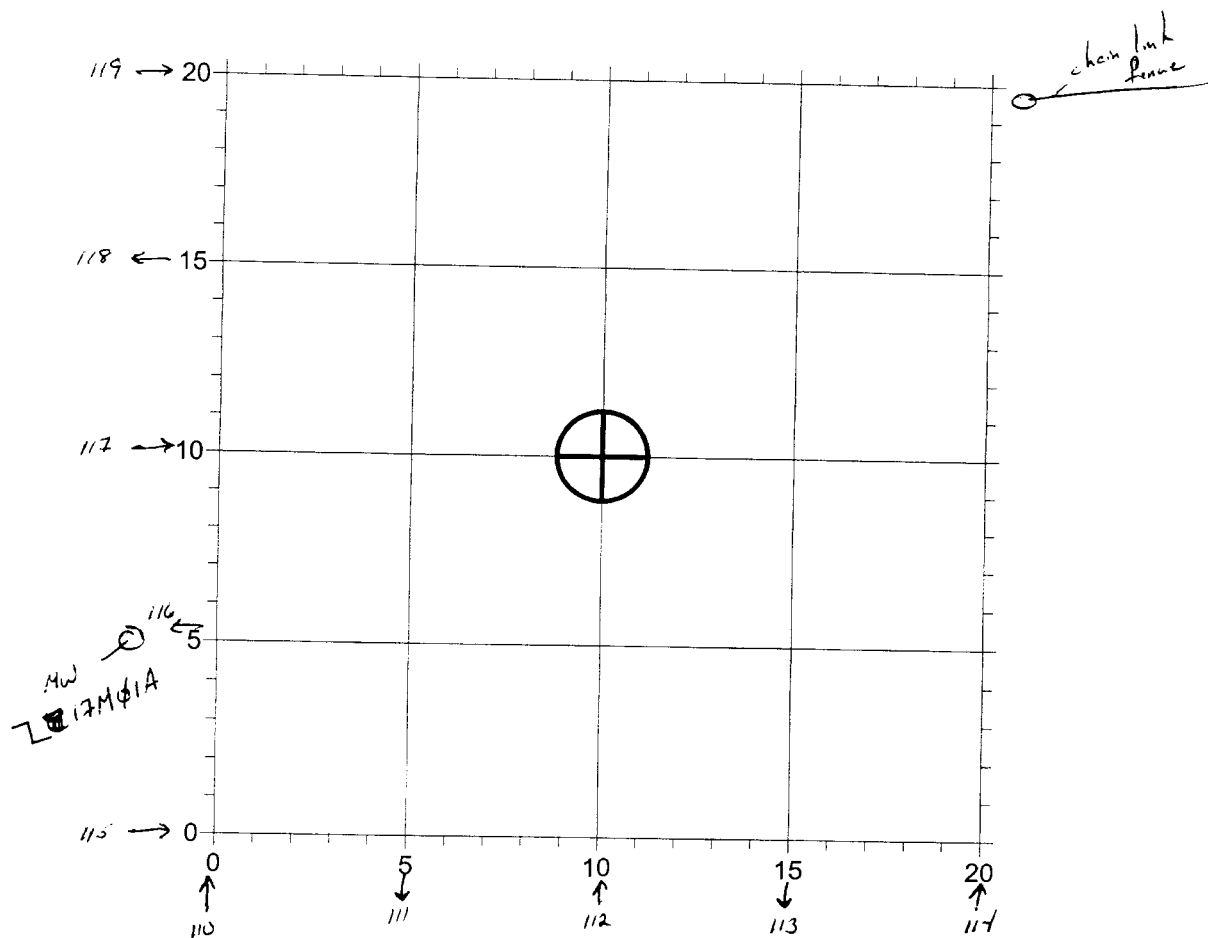


Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Surveys		Borehole # 45831



↑ } GPR Profile name
+ direction profile
was collected

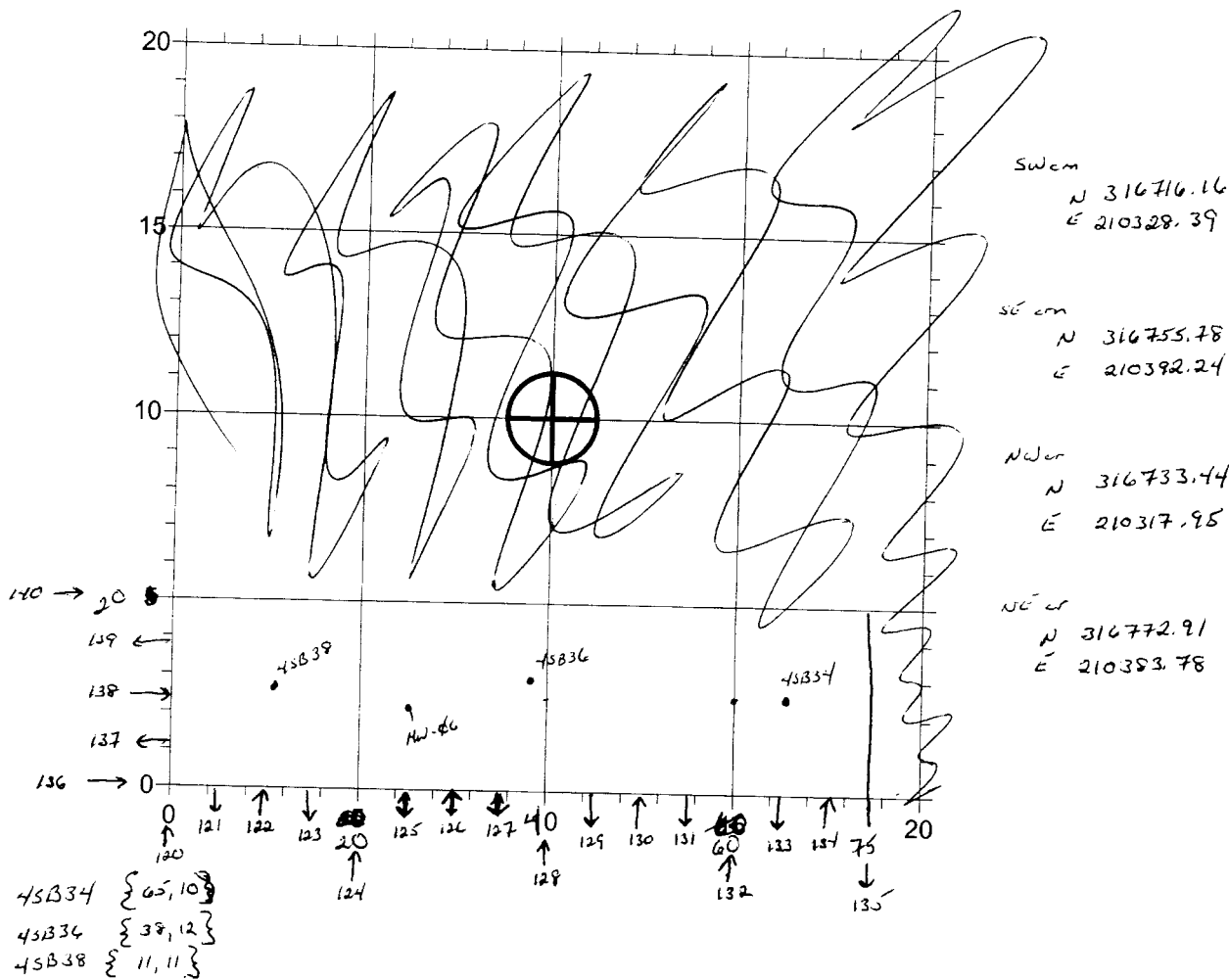
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 45B32



↑

↑ } GPR Profile name &
direction profile was
collected

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 45B33

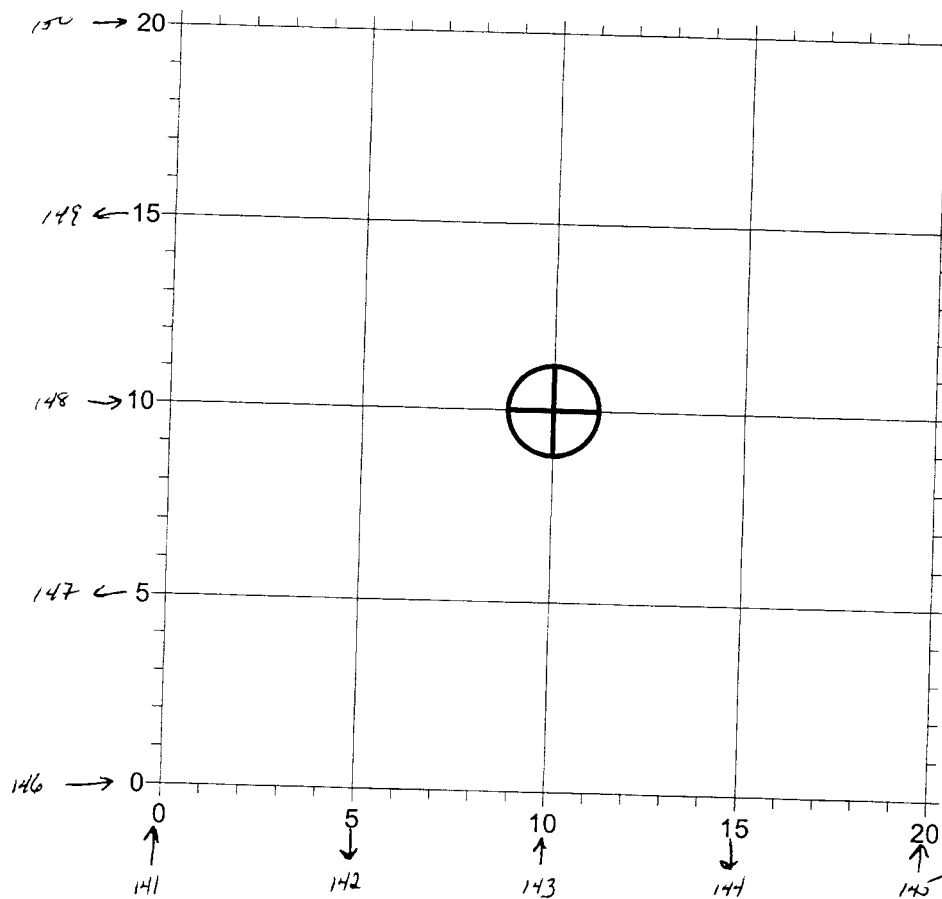


not aligned
North

↑ } GPR Profile name &
120 } direction profile was collected
• profiles collected every 5'
• E-W profiles have lateral markers
every 5'

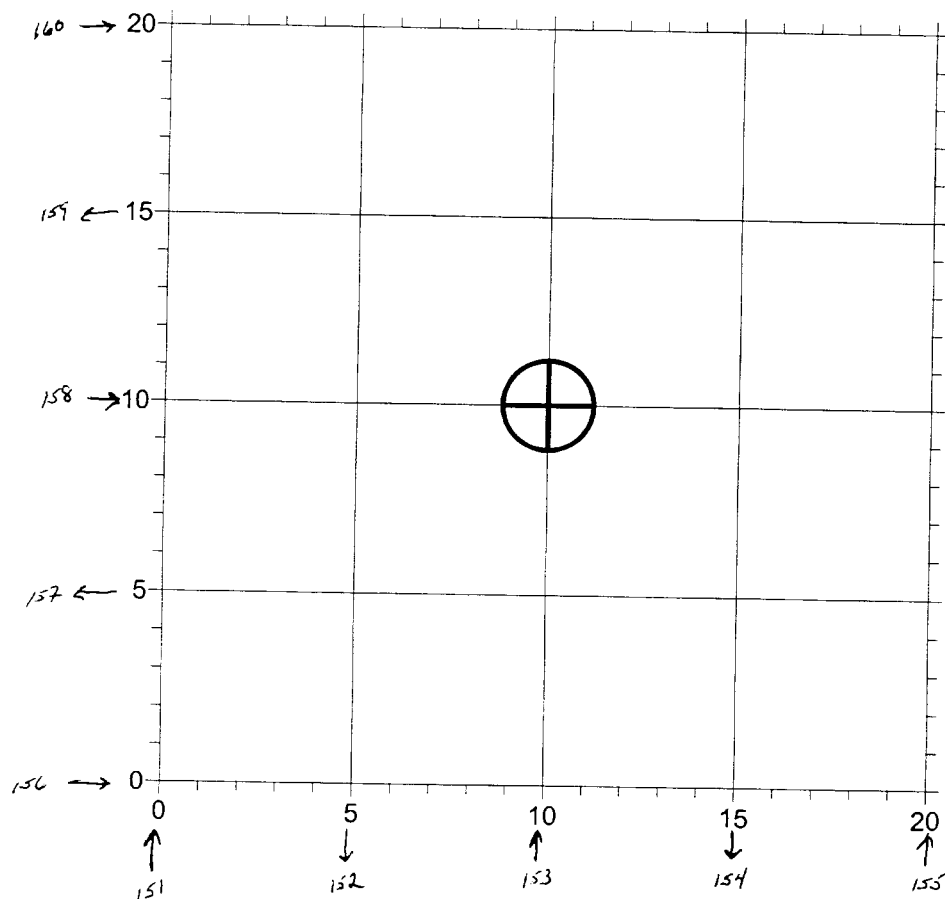
EMU1 data file name 45B38

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"= 20'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 45B34 45B36 45B38



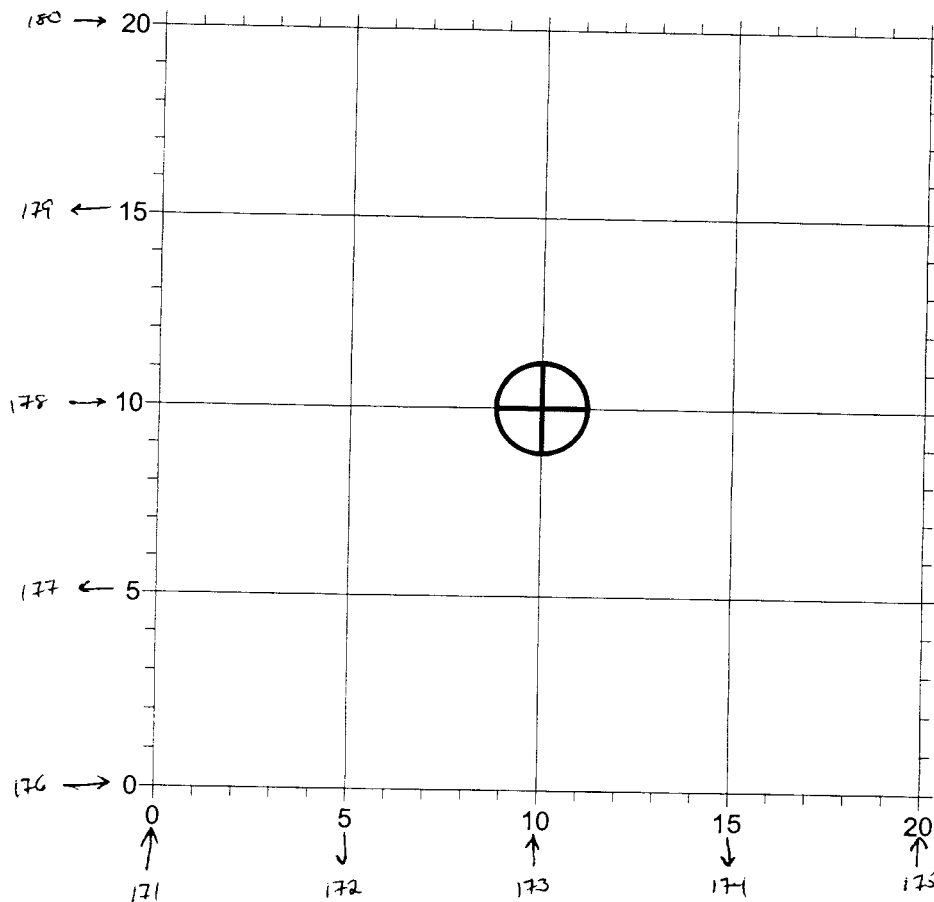
↑ } GPR profile names or direction
 141 } profile was collected

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
 Surface & Borehole Geophysics		Borehole # 45B35



↑ } GPR profile name +
151 } direction profile was
collected

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 45B37

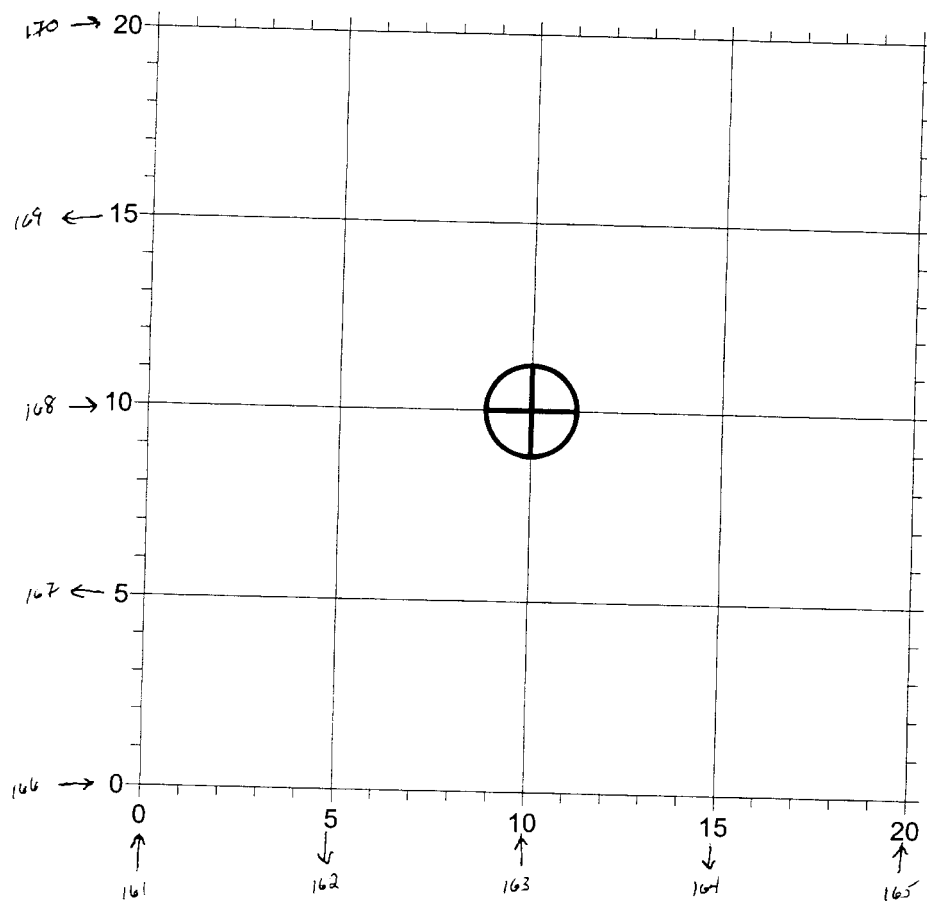


wetland
marsh

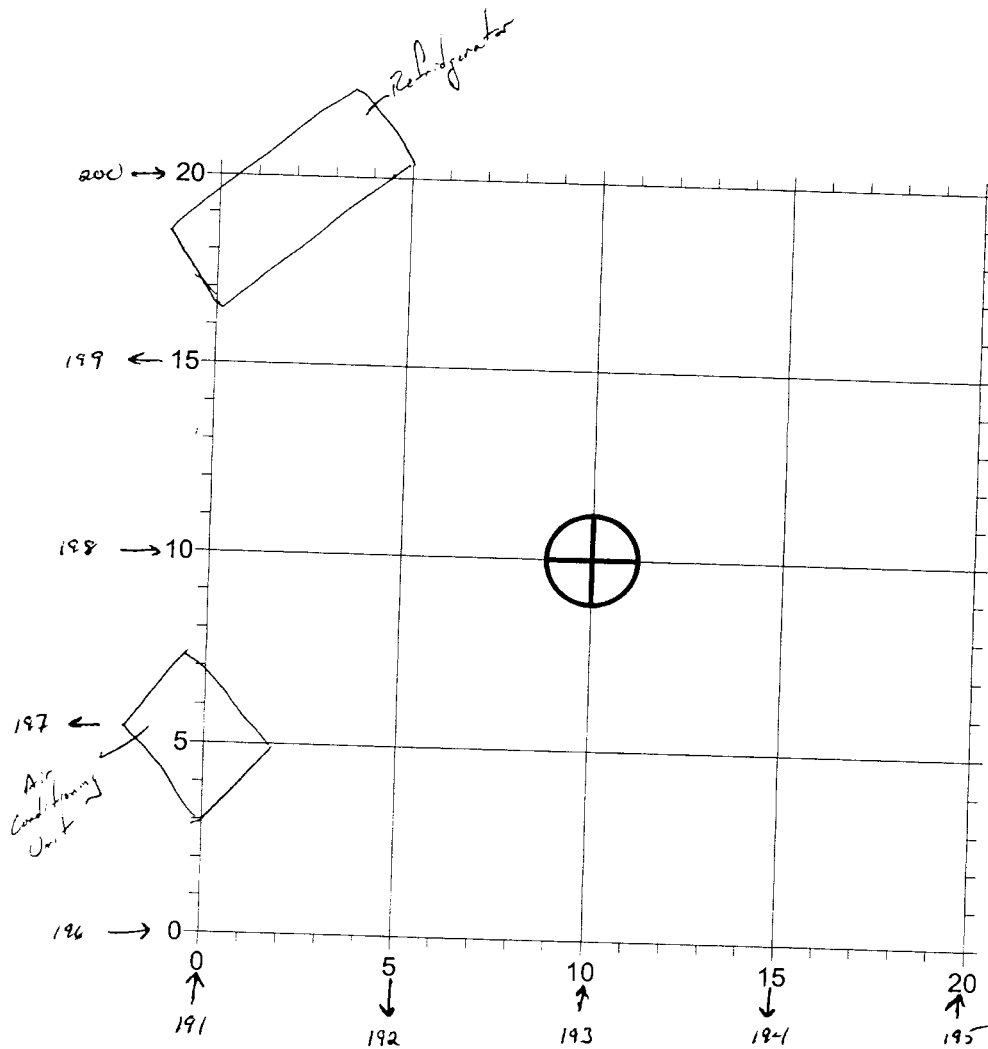


↑ } GPR profile name and
171 } direction profile was
collected

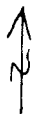
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 45B39



Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 45840

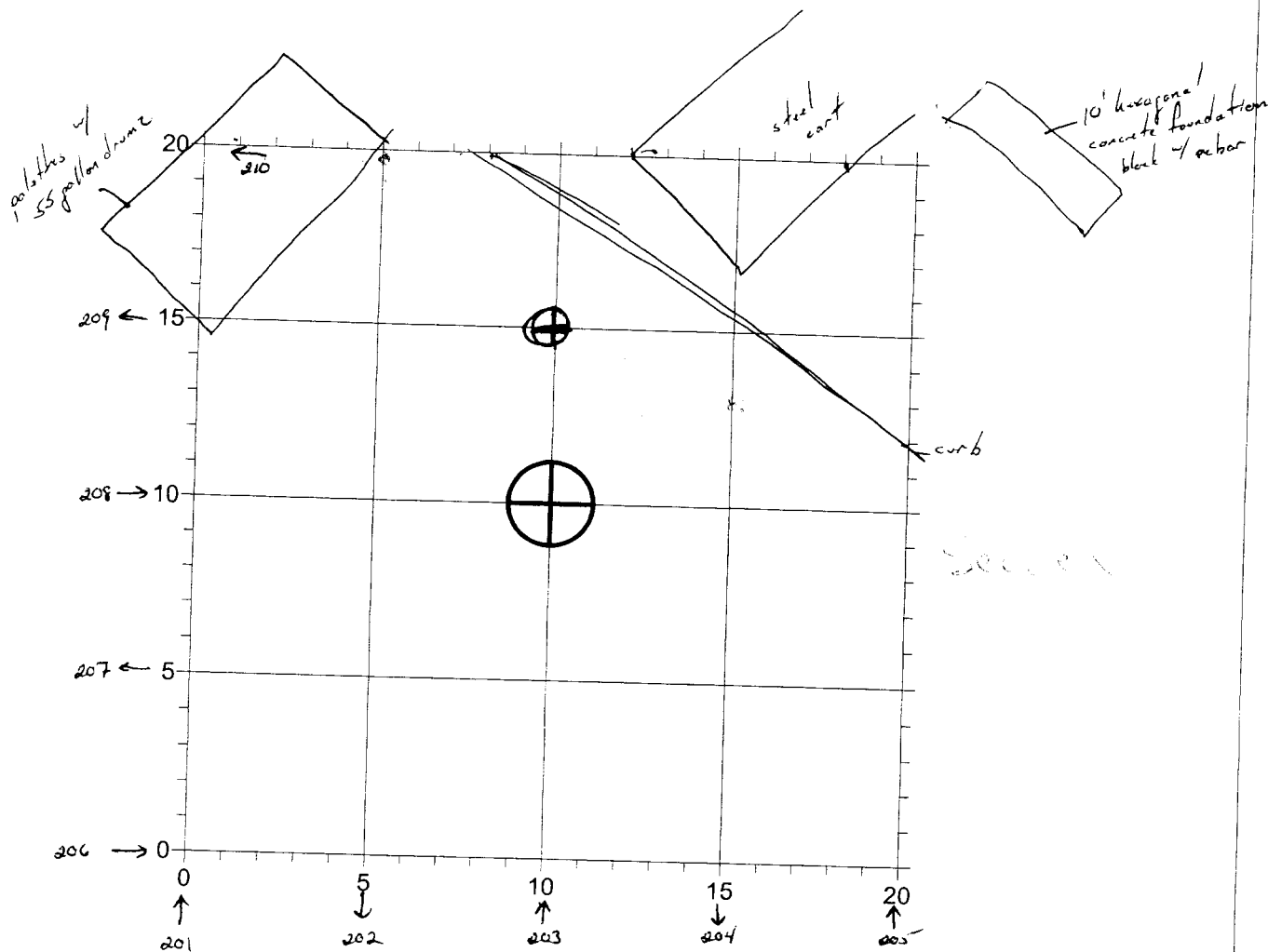


091 → starts @ 0 ends @ 45 } Profiles every 5'
 200 → starts @ 5 ends @ 20 }



↑ } GPR profile name and
 191 } direction profile was collected

Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 75B/1



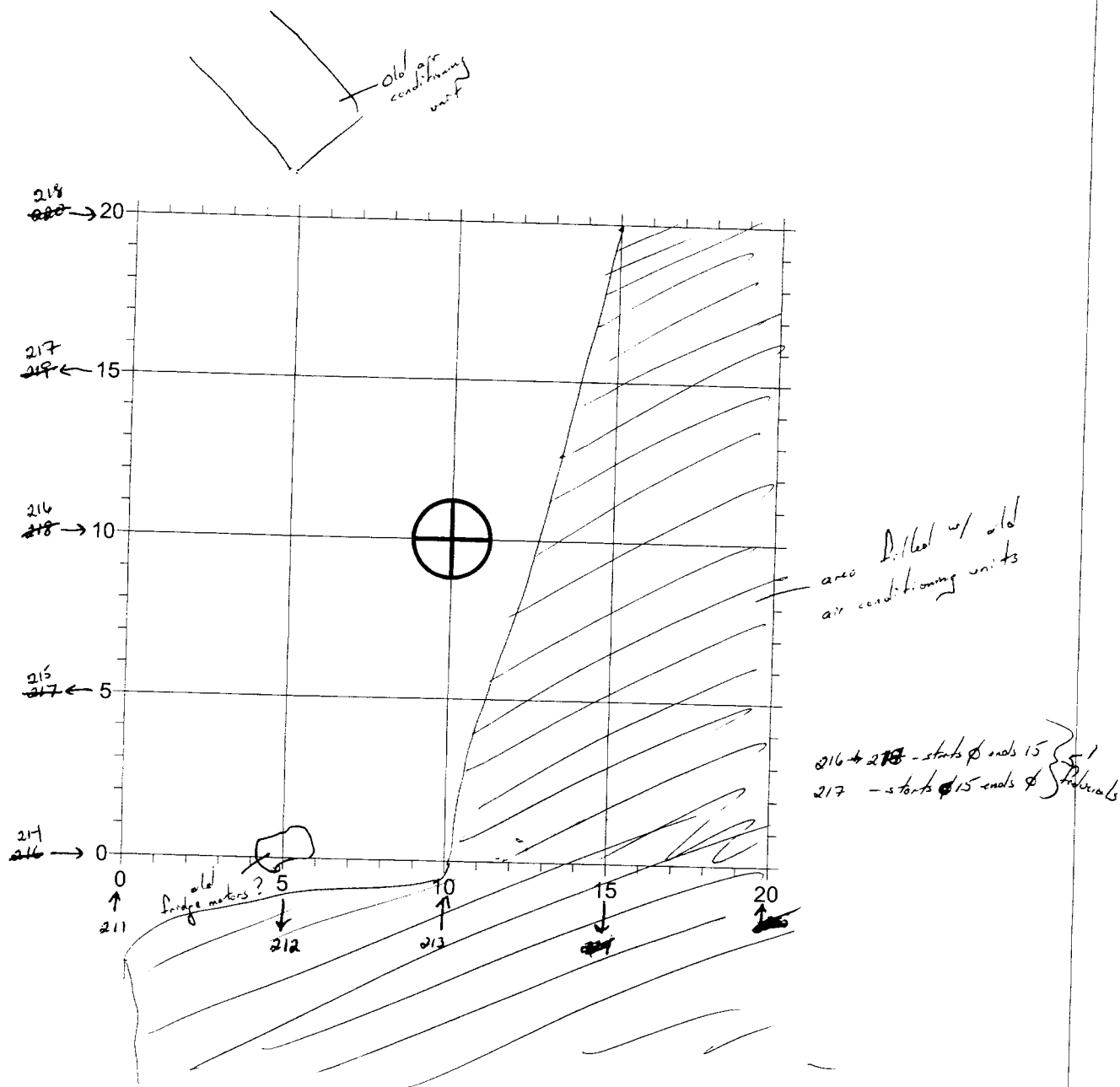
201 → starts @ 0 ends @ 15
 203 → weld. local fibrous / boring location starts @ 0 ends @ 18
 204 → starts @ 15 ends @ 0
 210 → starts @ 5 ends @ 20

boring location @ {10, 15} not {10, 10}

5' fibrous every



Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 7SBØ2



Cabrera Services, Inc.
Dupont Facilities
Deepwater, New Jersey

22 June 2007

1"=5'

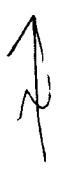
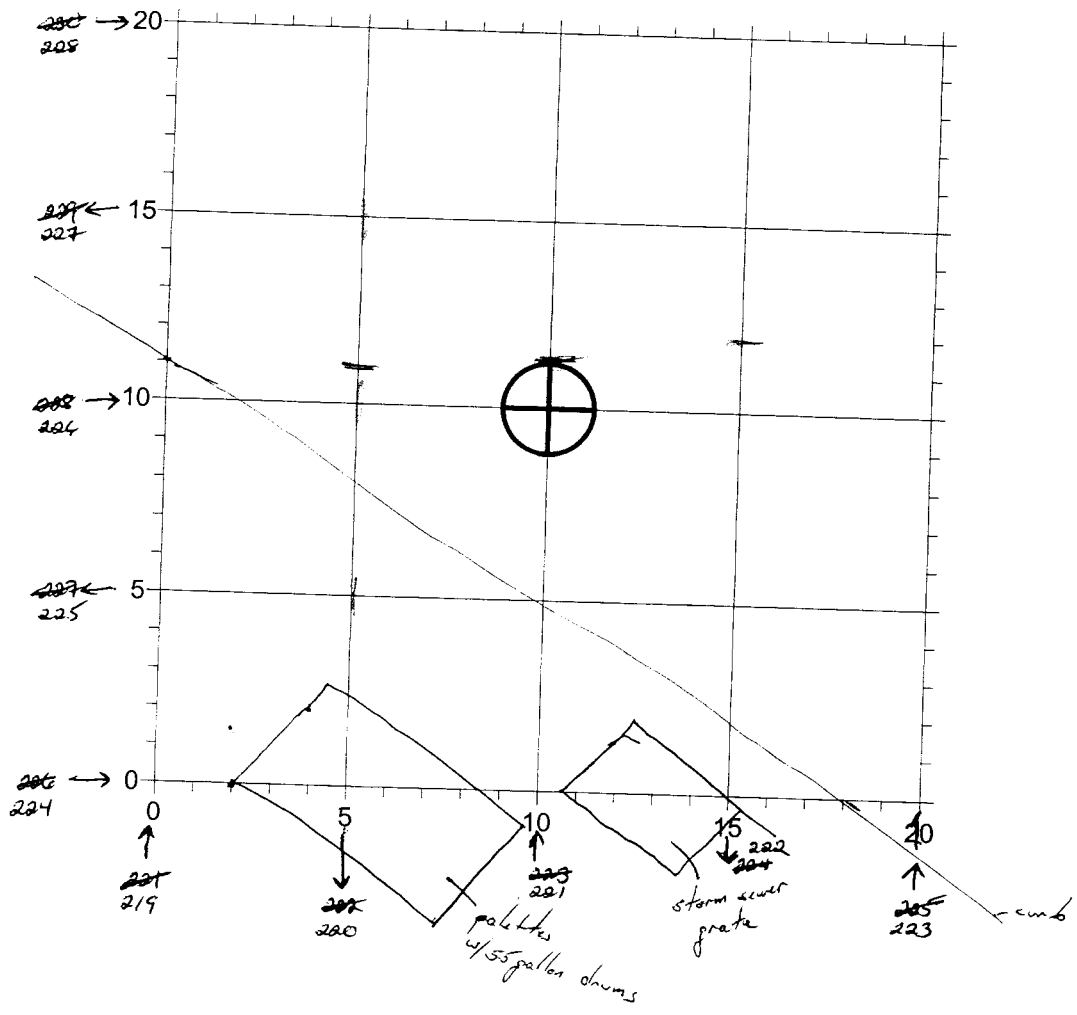
07271

ARM
GEOPHYSICS

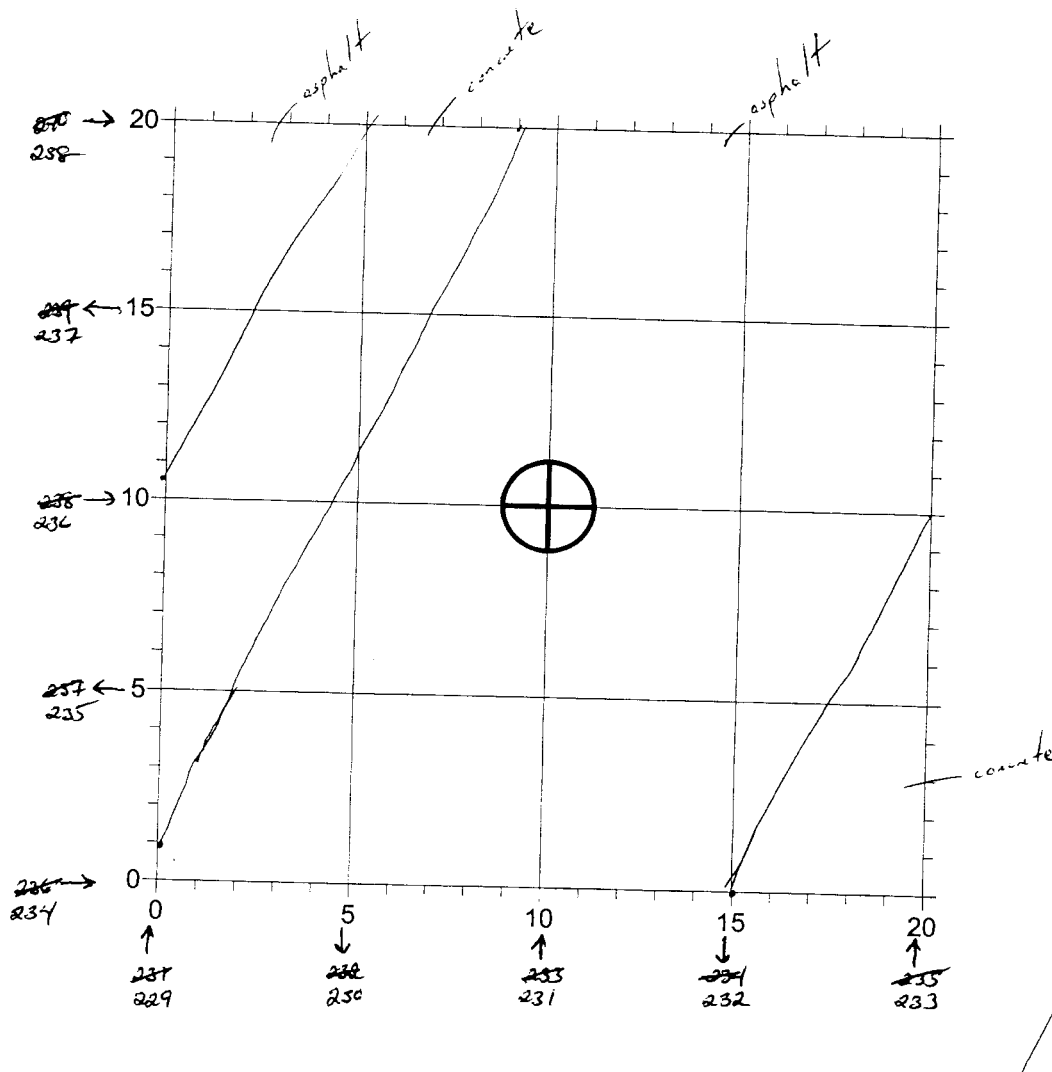
Surface & Borehole
Geophysics

Borehole #

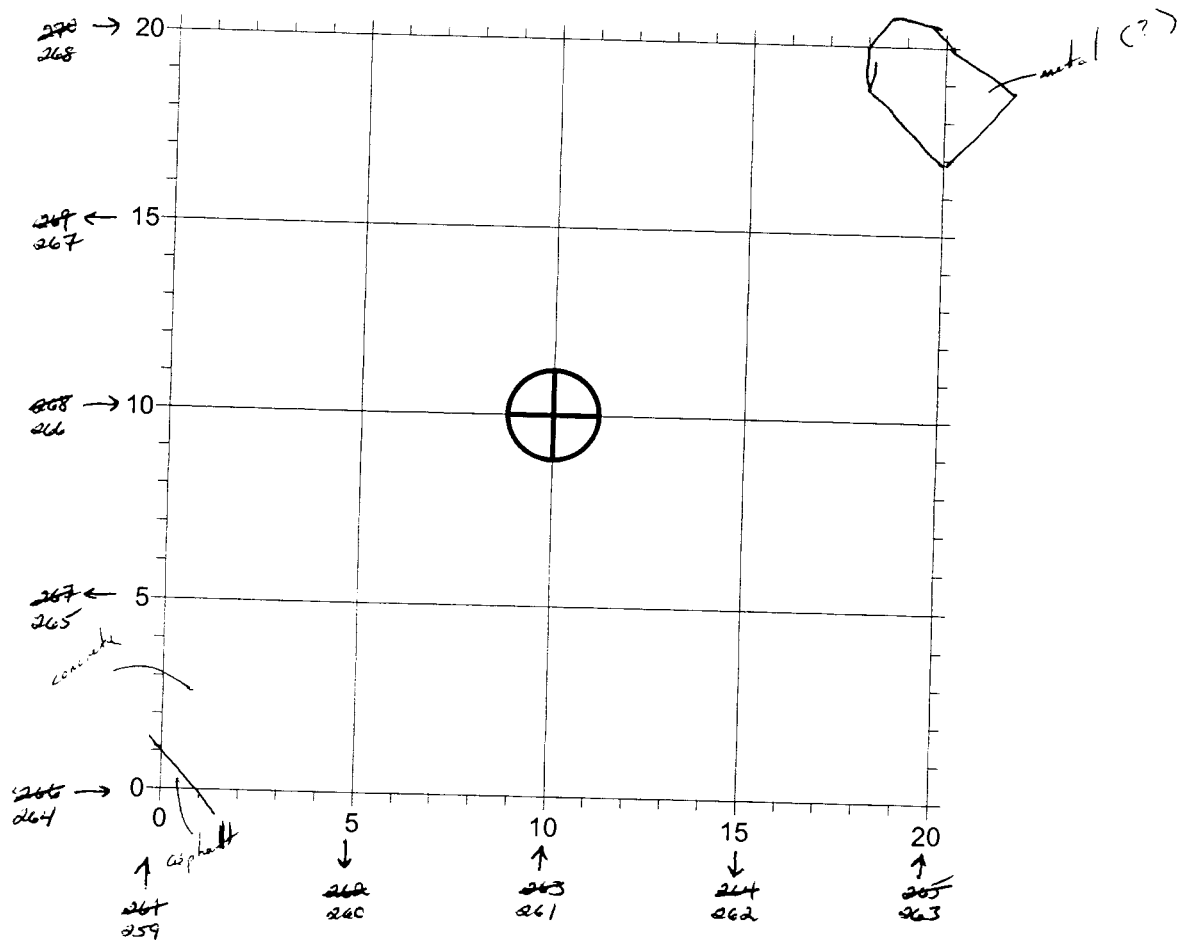
75B 03



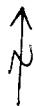
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 75344



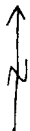
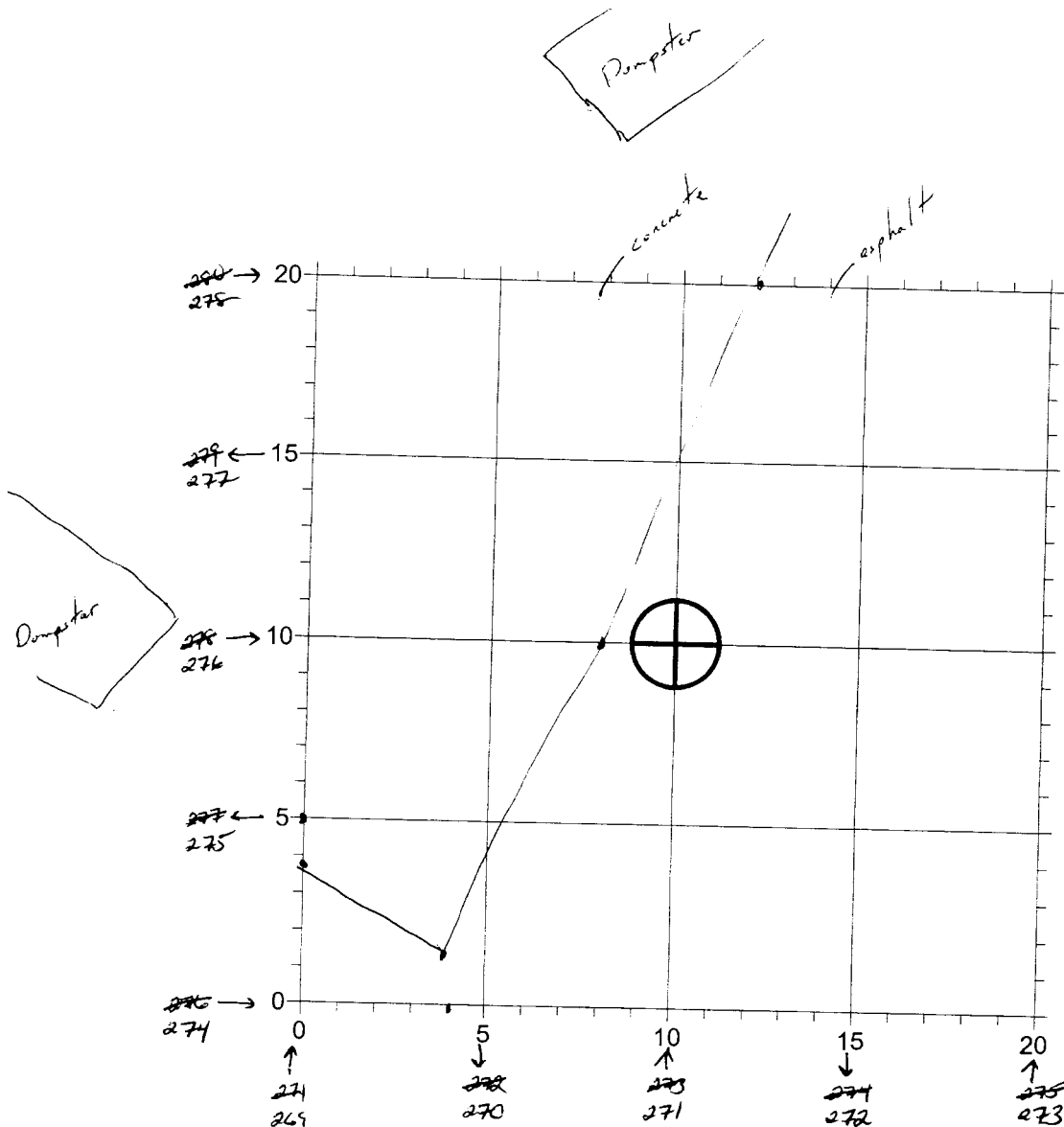
Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 75805



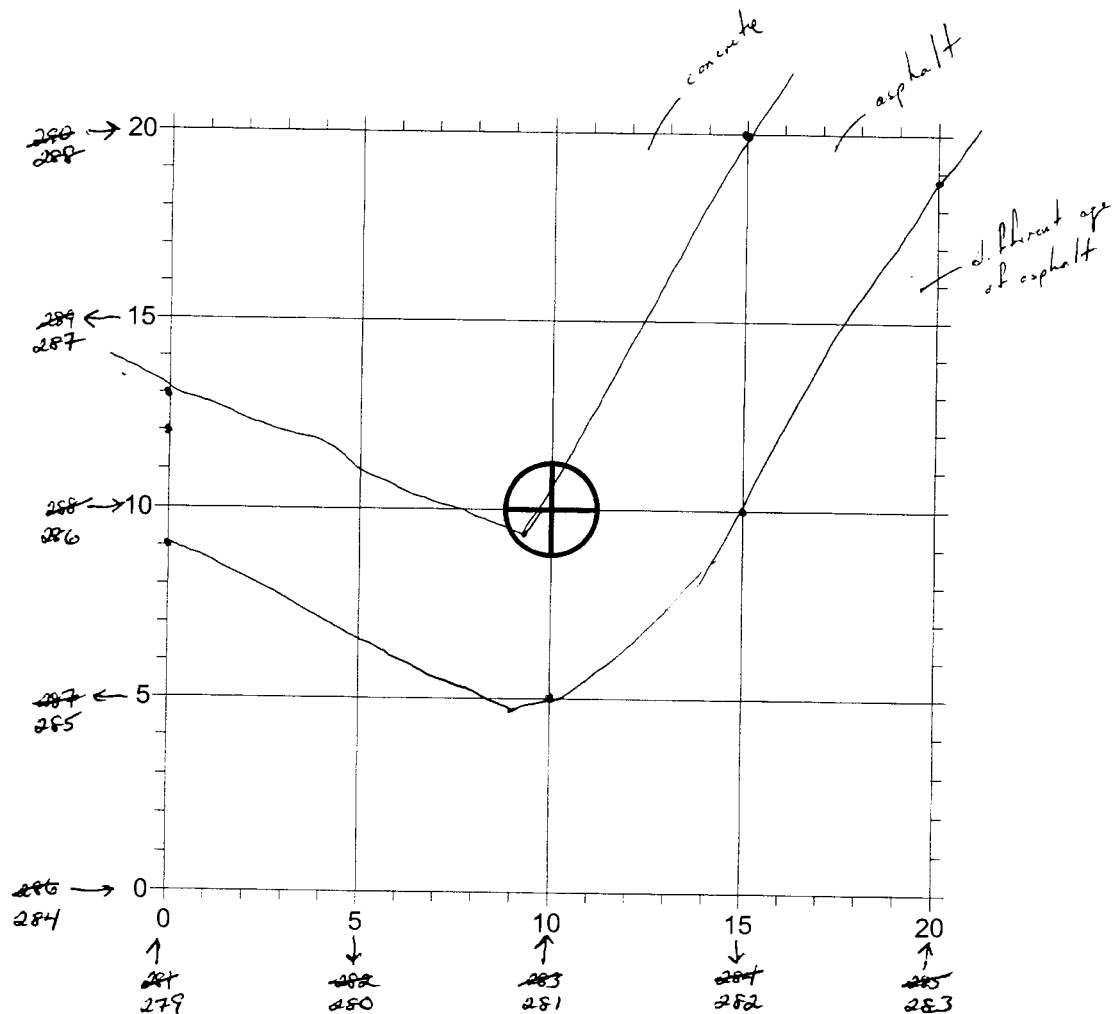
All grid on concrete



Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 75808



Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 75809



Cabrera Services, Inc. Dupont Facilities Deepwater, New Jersey		
22 June 2007	1"=5'	07271
ARM GEOPHYSICS Surface & Borehole Services		Borehole # 75310