

New Philadelphia Excavation Unit Summary Form

Block 3 Lot 4

Megan Cerasale, Steven Manion, Dr. Terrance Martin, and Laura Wardwell

Excavation Unit 1 (N20 E10)

Archaeologists began the excavation of Block 3 Lot 4 Excavation Unit 1 with Level A1 as a 0.5 ft arbitrary level. Level A1's average opening elevation is 766.0771 ft above median sea level (amsl) and average closing elevation is 765.5824 ft amsl. Level A1 is plow zone and 10YR 2/1 (black) sandy loam. Level A1 has bioturbation from roots. The team recovered artifacts from throughout the unit including nails, glass, brick, slag, metal, possible copper alloy, and ceramics. Archaeologists also recovered and identified a piece of a terracotta pipe.

Nice weather! Laid out our first Excavation Unit.

- Steve Manion [NSF-REU student]

When we sifted, we found various artifacts, which included nails, pieces of pottery, and brick. We also found prehistoric artifacts called chert.

- Megan Cerasale [NSF-REU student]

They excavated Level A2 as a 0.5 ft arbitrary level. Level A2's average opening elevation is 765.5824 ft amsl and average closing elevation is 765.1883 ft amsl. Level A2 is plow zone and is 10YR 2/1 (black) sandy loam. Archaeologists recovered artifacts from throughout the unit including possible pencil lead, possible chert flakes and core, a coin, ceramics, brick, slag, metal, and more terracotta pipe fragments.

The team excavated Level A3 as a 0.5 ft arbitrary level. Level A3's average opening elevation is 765.1883 ft amsl and average closing elevation is 764.6493 ft amsl. Level A3 is plowzone and is mottled, with 10YR 3/2 (very dark grayish brown) in the southwest corner and 10YR 2/1 (black) encompassing the rest of the unit. Archaeologists recovered artifacts from throughout the unit including nails, ceramics, brick, one fishing sink, slag, and glass. The team observed that the density of artifacts dropped in Level A3.

Although the rodent nest discovery was fun.

- Steve Manion [NSF-REU student]

Found fewer artifacts in Level A3 than in other levels.

- Laura Wardwell [NSF-REU student]

Archaeologists excavated Level A4 as a 0.5 ft arbitrary level. Level A4's average opening elevation is 764.6493 ft amsl and average closing elevation is 764.4840 ft amsl. Level A4 is

plow zone and is 10YR 3/3 (dark brown) sandy loam. The team recovered three artifacts from Level A4 including brick and slag. Archaeologists discontinued excavation of Block 3 Lot 4 Excavation Unit 1 after excavating 0.12 ft into A4 due to the low density of artifacts and lightening of the soil.

We haven't been finding any artifacts in Levels A3 or A4, so we decided to finish up Level A4 and move to a new site.

- Megan Cerasale [NSF-REU student]

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11 PK 455
NSF-REU PROGRAM**

**BLOCK 3, LOT 4
EXCAVATION UNIT 1 (N20, E10)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV.	CLOSING ELEV.	DESCRIPTION
I	A1	SOD LAYER/ PLOW ZONE	10 YR 2/1	SANDY LOAM	766.0771 ft	765.5824 ft	Level A1 consists primarily of the sod layer. Brick, mortar, and slag sampled. Artifacts include various styles of refined earthenware, square and machine cut nails, and a metal button.
I	A2	TOPSOIL/ PLOWZONE	10 YR 2/1 and 10 YR 2/2	SANDY LOAM	765.5824 ft	765.1883 ft	This level contains high densities of artifacts and construction materials (nails, brick, glass, and stone). A chert core and flakes are found in association with pipe bowl fragments, ceramic sherds and a coin/ button.
I	A3	TOPSOIL/ PLOWZONE	10 YR 3/2 and 10 YR 2/1	SANDY LOAM	765.1883 ft	764.6493 ft	Here the plow zone continues. Much fewer artifacts are found at this depth. Brick, glass, slag and ceramics are found here.
B	A4	SUBSOIL	10 YR 2/2	SANDY LOAM	764.6493 ft	764.4840 ft	At this level very few artifacts are found. Artifacts include a few brick fragments and some slag.

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Excavation Unit 2 (N25 E45)

Archaeologists began excavation of Block 3 Lot 4 Excavation Unit 2 with Level A1 as a 0.5 ft arbitrary level. Level A1's average opening elevation is 763.7457 ft above median sea level (amsl) and average closing elevation is 763.5510 ft amsl. Level A1 is plow zone and is 10YR 3/2 (very dark grayish brown) sandy clay loam with many rock and pebble inclusions. They recovered artifacts from throughout the unit including a ceramic marble, one button, ceramics, nails, metal, glass, slag, mussel shell, burned bone.

The soil is pretty hard and extremely rocky. It's hard to shovel so we use trowels.

- Megan Cerasale [NSF-REU student]

Archaeologists excavated Level A2 as a 0.5 ft arbitrary level. Level A2's average opening elevation is 763.5510 ft amsl and average closing elevation is 763.2106 ft amsl. Level A2 is plow zone and is 10YR 3/2 (very dark grayish brown) sandy loam. The team observed that the stratum is higher in the western side of the unit than the eastern side. Archaeologists recovered artifacts from throughout the unit including one bead, one tooth, brick, slag, one button, bone, possible chert flakes, mortar, ceramics, glass, nails, and metal. They designated Level A2 as the bottom of the plow zone because of the decline in recovered artifacts.

With trowel work, we have been peeling the soil back following the contour of the soil, not going any deeper than the artifact and rocky layer.

- Steve Manion [NSF-REU student]

We found many artifacts, soil imbedded with rocks.

- Laura Wardwell [NSF-REU student]

Archaeologists excavated Level B1 as a 0.5 ft arbitrary level. Level B1's average opening elevation is 763.2106 ft amsl and average closing elevation is 763.0814 ft amsl. Level B1 is subsoil and is 10YR 3/1 (very dark gray) sandy loam. The team recovered two artifacts, one brick fragment and one mortar fragment. Archaeologist discontinued excavation of Block 3 Lot 4 Excavation Unit 2 because they observed a decline in recovered artifacts and a soil color change.

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**BLOCK 3, LOT 4
EXCAVATION UNIT 2 (N25, E45)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV.	CLOSING ELEV.	DESCRIPTION
I	A1	SOD LAYER/ PLOW ZONE	10 YR 3/2	SANDY LOAM CLAY	763.7457 ft	763.5510 ft	At this level numerous pebbles and rocks are found. Vessel and flat glass sherds are combined with slag, nails, and various ceramic sherds are found here. A large ceramic marble and a button are also recovered from this level.
I	A2	TOPSOIL/ PLOWZONE	10 YR 3/2	SANDY LOAM	763.5510 ft	763.2106 ft	In Level A2 archaeologists sampled metal, mortar, and brick. Ceramic sherds, glass, and nails are part of the artifacts found here. A wooden button is also part of the artifacts found here.
B	B1	SUBSOIL	10 YR 3/1	SANDY LOAM	763.2106 ft	763.0814 ft	At this level artifact quantity dropped severely. The team only excavated one brick and one mortar fragment.

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Excavation Unit 3 (N50 E45)

Archaeologists excavated Block 3 Lot 4 Excavation Unit 3 because a low mound of gravel might be related to an architectural feature. The team excavated Level A1 as a 0.5 ft arbitrary level. Level A1's average opening elevation is 763.4263 ft above median sea level (amsl) and average closing elevation is 763.1882 ft amsl. Level A1 is plow zone and is 10YR 3/2 (very dark grayish brown) sandy loam. Archaeologists observed heavy gravel and rock inclusions during the excavation of Level A1. They recovered artifacts from throughout the unit including metal, nails, brick, possible chert flakes, ceramics, glass, charcoal, slag, and two pieces of a possible strap.

I had to bust through with a pick axe. Lots of rocks.

- Steve Manion [NSF-REU student]

We finished Level A1 with some difficulty because of all the rocks.

- Megan Cerasale [NSF-REU student]

Archaeologists excavated Level A2 as a 0.5 ft arbitrary level. Level A2's average opening elevation is 763.1882 ft amsl and average closing elevation is 762.6094 ft amsl. Level A2 is plow zone and is 10YR 3/2 (very dark grayish brown) sandy loam. The team observed that Level A2 has significantly less rock inclusions than Level A1. At the bottom of Level A2, archaeologists observed that the plow zone is still present in the east half of the unit. However, the team noted that the west half is subsoil. Archaeologists recovered artifacts from throughout the unit including glass, mortar, nails, charcoal, brick, ceramics, milk glass, one metal hook, and metal. The team exposed Feature 2, a mortar building foundation, in the southwest corner.

Good day! We found a feature in E. Unit 3. It appears to be a footprint of a foundation.

- Laura Wardwell [NSF-REU student]

Archaeologists began Level B1 as a 0.5 ft arbitrary level. Level B1's average opening elevation is 762.6094 ft amsl and average closing elevation is 762.3695 ft amsl. Level B1 is subsoil and is a slightly mottled 10YR 3/2 (very dark grayish brown) sandy loam. After excavating 1.25 ft of Level B1, archaeologists discontinued excavation of Block 3 Lot 4 Excavation Unit 3 because of a soil color change and low density of artifacts. The team recovered artifacts from throughout the unit including mortar, nails, slag, and ceramics. They profiled the north, east, and west walls.

Feature 2

Feature 2 is a possible lime pit in the southwest corner of Block 3 Lot 4 Excavation Unit 3. Within the excavation unit, Feature 2's dimensions are 0.4 ft by 1.7 ft. The team found no direct association between recovered artifacts and Feature 2. Archaeologists continued to investigate and determine the total dimensions of Feature 2 by excavating Block 3 Lot 4 Excavation Unit 4 directly to the west of Block 3 Lot 4 Excavation Unit 3.

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**BLOCK 3, LOT 4
EXCAVATION UNIT 3 (N50, E45)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV.	CLOSING ELEV.	DESCRIPTION
I	A1	SOD LAYER/ PLOW ZONE	10 YR 3/2	SANDY LOAM	763.4257 ft	763.1882 ft	In Level A1 artifacts include metal, brick, charcoal, and slag. Other artifacts include glass and ceramic sherds, and two pieces of leather.
I	A2	TOPSOIL/ PLOWZONE	10 YR 3/2	SANDY LOAM	763.1882 ft	762.6094 ft	Feature 2 is unearthed in the southwest corner of Level A2. This feature is mortar, which is part of some sort of foundation. Artifacts include two sherds of milk glass, a metal hook and a metal "S".
B	B1	SUBSOIL	10 YR 3/2	SANDY LOAM	762.6094 ft	762.3695 ft	Soil changes to a mottled, lighter completion at the base of this level indicating non-plow zone horizon. Feature 2 is discovered to be limited to the southwestern corner. Very few artifacts are found at this level.

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Excavation Unit 4 (N50 E40)

Archaeologists began excavation of Block 3 Lot 4 Excavation Unit 4 in order to further investigate and define the boundaries of Feature 2. The team subdivided Level A1 of Unit 4 into two levels, Level A1a and Level A1b, because of the high concentration of gravel and rock also encountered in Level A1. Level A1a and Level A1b together compose Level A1 and it is a 0.5 ft arbitrary level. Level A1a's average opening elevation is 763.6978 ft above median sea level (amsl) and average closing elevation is 763.5825 ft amsl. Level A1a is plow zone with heavy gravel inclusions and is 10YR 2/2 (very dark brown) gravel. After the team observed dissipation in the density of gravel and rock inclusions, they called this the bottom of Level A1a. Archaeologists recovered artifacts from throughout the unit including ceramics, brick, charcoal, nails, possible chert flakes, glass, and metal. The team began the excavation Level A1b where Level A1a ended. They designated that the bottom of Level A1b is an arbitrary 0.5 ft below the ground surface. Level A1b's average opening elevation is 763.5825 ft amsl and average closing elevation is 763.4693 ft amsl. Level A1b is plow zone and is 10YR 2/2 (very dark brown) sandy loam. Archaeologists recovered artifacts from throughout the unit including ceramics, glass, mortar, nails, metal, one latch hook, brick, slag, and charcoal.

Stratum 1 was completed. It was very rocky.

- Laura Wardwell [NSF-REU student]

Archaeologists excavated Level A2 as a 0.5 arbitrary level. Level A2's opening elevation is 763.4693 ft amsl and closing elevation is 763.0302 ft amsl. Level A2 is plow zone and is 10YR 3/2 (very dark grayish brown) sandy loam mottled with 10YR 3/3 (dark brown) sandy loam. Archaeologists recovered artifacts from throughout the unit including one raspberry-shaped bead, ceramics, bone, metal, one penny, one button, Illinois State Fair medal (1903), one pencil eraser, glass, slag, mortar, brick, and possible chert flakes. The team observed a compact mortar concentration in the southeast quadrant of the excavation unit, which they believed to be a continuation of Feature 2.

Went down a foot in the unit and found a new mortar feature. Perplexing because it is so much more elevated than the previous feature, but obviously related to one another.

- Steve Manion [NSF-REU student]

First we found a medal of some sort, that said, "Illinois State Fair 1903." Then we found a 1898 Indian head wheat penny.

- Megan Cerasale [NSF-REU student]

Archaeologists excavated Level B1 as a 0.5 arbitrary level. Level B1's average opening elevation is 763.0302 ft amsl and average closing elevation is 762.4920 ft amsl. Level B1 is subsoil and is 10YR 5/4 (yellowish brown) sandy loam mottled with 10YR 3/3 (dark brown) sandy loam. Archaeologists observed that very few artifacts were associated with Level B1. They recovered artifacts from throughout the unit including ceramics, iron, glass, mortar, and slag. Feature 2 became visible in the southeast quadrant of the excavation unit. Archaeologists terminated excavation of Block 3 Lot 4 Excavation Unit 4 because of the change in soil color to 10YR 5/4 (yellowish brown) and a more compact texture.

Feature 2

Feature 2 is a large piece of mortar visible in the southeast quadrant of the unit. The team interprets Feature 2 as the possible remains of a lime pit. They observed that no artifacts are directly associated with Feature 2. Archaeologists determined that the mortar is a continuation of Feature 2 from the southwest corner of Block 3 Lot 4 Excavation Unit 3 by troweling the north edge of the pedestal along the east profile of Block 3 Lot 4 Excavation Unit 4. Within Block 3 Lot 4 Excavation Unit 4, Feature 2 dimensions are 2.6 ft by 1.8 ft. The team left Feature 2 as a pedestal in order to expose it in its entirety. Archaeologists excavated the pedestal for Feature 2 as a continuation of Level B1. However, they began a different artifact bag for the excavated soil from the pedestal around and inside Feature 2. Level B1 of the Feature 2 pedestal is 10YR 3/2 (very dark grayish brown) sandy loam. Archaeologists recovered no artifacts from this level. The Feature 2 profile reveals that mortar lens is less than 0.2 ft thick. Archaeologists further investigated Feature 2 in Block 3 Lot 4 Excavation Unit 5 directly to the south of Block 3 Lot 4 Excavation Unit 4.

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**BLOCK 3, LOT 4
EXCAVATION UNIT 4 (N50, E40)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV.	CLOSING ELEV.	DESCRIPTION
I	A1a	SOD LAYER/ PLOW ZONE	10 YR 2/2	GRAVEL AND SOD	763.6978 ft	763.5825 ft	Level A1a is a natural level consisting of a gravel layer approximately 0.4 ft thick. Artifacts here include chert flakes, glass and ceramic sherds, and nails along with brick and mortar.
I	A1b	SOD LAYER/ PLOWZONE	10 YR 2/2	SANDY LOAM	763.5825 ft	763.4693 ft	This level is the beginning of the natural topsoil beneath the gravel layer. Again ceramics, glass, and metal artifacts are found in association with brick, mortar, and charcoal.
I	A2	TOPSOIL/ PLOWZONE	10 YR 3/2 and 10 YR 3/3	SANDY LOAM	763.4693 ft	763.0302 ft	Archaeologists discovered a concentration of mortar in the southeastern quadrant of this level. Metal, brick, and mortar were found as was a button and a metal tag marked "ILLINOIS STATE FAIR, 1903".
B	B1	SUBSOIL	10 YR 3/3 MOTTLED WITH 10 YR 5/4	SANDY LOAM	763.0302 ft	762.4920 ft	Feature 2 is much more defined in this level. Artifact frequency declines drastically in Level B1.

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Excavation Unit 5 (N45 E40)

Archaeologists began excavation of Block 3 Lot 4 Excavation Unit 5 to further investigate and define the boundaries of Feature 2 first encountered in Block 3 Lot 4 Excavation Unit 3. The team subdivided Level A1 of Unit 5 into two levels, Level A1a and Level A1b, to designate the high concentration of gravel and rock also encountered in Level A1 of Block 3 Lot 4 Excavation Unit 3 and Block 3 Lot 4 Excavation Unit 4. Level A1a's average opening elevation is 763.7674 ft above median sea level (amsl) and average closing elevation is 763.5849 ft amsl. Level A1a is plow zone and is 10YR 3/1 (very dark gray) gravel. After the team observed dissipation in the density of gravel and rock inclusions, they called this the bottom of Level A1a. Archaeologists recovered artifacts from throughout the unit including ceramics, buttons, slag, brick, one tooth, bone, glass, nails, and metal. The team began the excavation Level A1b where Level A1a ended. They designated that the bottom of Level A1b is an arbitrary 0.5 ft below the ground surface. Level A1b's average opening elevation is 763.5849 ft amsl and average closing elevation is 763.4521 ft amsl. Level A1b is plow zone and is 10YR 3/1 (very dark gray) sandy loam. Archaeologists recovered artifacts from throughout the unit including ceramics, nails, metal, brick, slag, charcoal, glass, mortar, possible chert flakes, and one metal hook.

We opened up Unit 5 right next to the feature, hoping to see it continue on in this unit.

- Megan Cerasale [NSF-REU student]

Archaeologists excavated Level A2 as a 0.5 ft arbitrary level. Level A2's average opening elevation is 763.4521 ft amsl and average closing elevation is 763.0741 ft amsl. Level A2 is plow zone and is 10YR 3/2 (very dark grayish brown) sandy loam. Archaeologists recovered artifacts from throughout the unit including glass, ceramics, nails, metal, slag, brick, mortar, one possible chert flake, one button, lead, slate, and teeth.

Many artifacts were found at first, but soon it became clear that we had dug below plow zone.

- Laura Wardwell [NSF-REU student]

It's raining! And I am writing in the rain! Very cool.

- Laura Wardwell [NSF-REU student]

Laura uncovered some more mortar, which we believe is a continuation of features in EU 3 and 4.

- Steve Manion [NSF-REU student]

The team excavated Level B1 as a 0.5 ft arbitrary level. Level B1's average opening elevation is 763.0741 ft amsl and average closing elevation is 762.7481 ft amsl. Level B1 is subsoil and is 10YR 2/2 (very dark brown) sandy loam. Archaeologists observed that very few artifacts were associated with Level B1. The team recovered artifacts including brick and mortar. At the bottom of Level B1, they discontinued excavation because of the low density of artifacts. In Level B1, archaeologists observed the continuation of Feature 2 in the northeast quadrant. They excavated around Feature 2 to leave a pedestal to excavate it separately.

Feature 2

Feature 2 is a large piece of mortar in the northeast quadrant of Block 3 Lot 4 Excavation Unit 5. Archaeologists observed that is a continuation of Feature 2 that was first encountered in Block 3 Lot 4 Excavation Unit 3. Within Block 3 Lot 4 Excavation Unit 5, Feature 2's dimensions are 2.4 ft by 2.8 ft. Archaeologists excavated the pedestal around Feature 2 in Block 3 Lot 4 Excavation Unit 5 as a separate level. The level's average opening elevation is 763.0741 ft amsl and its average closing elevation is 762.6428 ft amsl. The level is 10YR 3/2 (very dark grayish brown) sandy loam. Archaeologists recovered artifacts that were associated with the interior of Feature 2, including one bead, glass, nails, metal, ceramics, slag, brick, and mortar. The team interprets Feature 2 as a possible lime pit. They further investigated Feature 2 in Block 3 Lot 4 Excavation Unit 6 directly to the east of Block 3 Lot 4 Excavation Unit 5.

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**BLOCK 3, LOT 4
EXCAVATION UNIT 5 (N45, E40)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV.	CLOSING ELEV.	DESCRIPTION
I	A1a	SOD LAYER/ PLOW ZONE	10 YR 3/1	GRASS AND GRAVEL	763.7674 ft	763.5849 ft	Level A1a follows the natural stratigraphy and consists of grass and gravel. This level contained two buttons and some bone in combination with brick, mortar, nails, and slag.
I	A1b	TOPSOIL/ PLOWZONE	10 YR 3/1	SANDY LOAM	763.5849 ft	763.4521 ft	Excavated to a full 0.5 ft below the surface Level A1b is below the gravel layer. In this level artifacts include nails, ceramics, glass, and chert flakes. Archaeologists sampled brick, mortar, charcoal and slag.
I	A2	TOPSOIL/ PLOWZONE	10 YR 3/1	SANDY LOAM	763.4521 ft	763.0741 ft	Artifacts increase in quantity and are more of the previous items. One piece of pencil lead, slate, two animal teeth, a button, and one chert flake are also from this level.
B	B1	SUBSOIL	10 YR 2/2	SANDY LOAM	763.0741 ft	762.7481 ft	Feature 2 appears in this level but artifacts decrease. Again this feature is characterized as a rectangular formation of mortar in the northeast quadrant.

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Excavation Unit 6 (N45 E45)

Archaeologists began excavation of Block 3 Lot 4 Excavation Unit 6 in order to further investigate and define the boundaries of Feature 2 first encountered in Block 3 Lot 4 Excavation Unit 3. They left a balk at the west wall to excavate separately because of the area's possible proximity and association to Feature 2. The team subdivided Level A1 of Unit 6 into two levels, Level A1a and Level A1b, to designate a high concentration of gravel and rock also encountered in Level A1 of Block 3 Lot 4 Excavation Unit 3 and Block 3 Lot 4 Excavation Unit 4. Level A1a's average opening elevation is 763.4466 ft above median sea level (amsl) and average closing elevation is 763.3077 ft amsl. Level A1a is plow zone with heavy gravel inclusions and is 10YR 3/1 (very dark gray) gravel. After the team observed dissipation in the density of gravel and rock inclusions, they called this the bottom of Level A1a. Archaeologists recovered artifacts from throughout the unit, including slag, glass, ceramics, brick, nails, metal, and possible chert flakes. The team began the excavation Level A1b where Level A1a ended. They designated the bottom of Level A1b at an arbitrary 0.5 ft below the ground surface. Level A1b's average opening elevation is 763.3077 ft amsl and average closing elevation is 763.2194 ft amsl. Level A1b is plow zone and is 10YR 3/1 (very dark gray) sandy loam. Archaeologists recovered artifacts from throughout the unit, including buttons, slate, glass, ceramics, nails, metal, slag, charcoal, mortar, and brick.

Archaeologists excavated Level A2 as a 0.5 ft arbitrary level. Level A2's average opening elevation is 763.2194 ft amsl and average closing elevation is 762.6977 ft amsl. Level A2 is plow zone and is 10YR 3/1 (very dark gray) sandy loam. Archaeologists recovered artifacts from throughout the unit, including ceramics, glass, rubber, nails, metal, and one button. They observed mortar along the west wall.

*I worked the whole day on taking in the feature and finding its edges
and the actual form of what's left of it.*

- Megan Cerasale [NSF-REU student]

Feature becoming more defined.

- Steve Manion [NSF-REU student]

The team excavated Level B1 as a 0.5 ft arbitrary level. Level B1's average opening elevation is 762.6977 ft amsl and average closing elevation is 762.5033 ft amsl. Level B1 is subsoil and is 10YR 3/2 (very dark grayish brown) sandy loam. Archaeologists observed that very few artifacts were associated with Level B1. The team recovered artifacts including nails, charcoal, slag, ceramics, brick, and glass. At the bottom of Level B1, they discontinued excavation

because of the low density of artifacts. In Level B1, archaeologists observed the continuation of Feature 2 along the west wall. They excavated the west balk separately because of its association with Feature 2.

Feature 2

Feature 2 is a large piece of mortar in the northwest corner of Block 3 Lot 4 Excavation Unit 6. Archaeologists observed that is a continuation of Feature 2 that was first encountered in Block 3 Lot 4 Excavation Unit 3. Within Block 3 Lot 4 Excavation Unit 6, Feature 2's dimensions are 0.4 ft by 2.8 ft. Archaeologists excavated the west balk associated with Feature 2 in Block 3 Lot 4 Excavation Unit 6 as a separate level. The level's average opening elevation is 763.6197 ft amsl and its average closing elevation is 762.6748 ft amsl. The level is 10YR 3/2 (very dark grayish brown) sandy loam. Archaeologists recovered artifacts that were associated with the Feature 2. They excavated the balk using 0.5 ft arbitrary levels.

We finished Unit 6 today and broke down the wall between it and Unit 5.

- Megan Cerasale [NSF-REU student]

Things are starting to slow down. We took out the balk separating units 5 and 6.

- Laura Wardwell [NSF-REU student]

The team's recovered artifacts from Level A1a of the balk included brick fragments. They recovered artifacts from Level A1b including nails, brick, and glass. The team recovered artifacts from Level A2 including nails, glass, ceramics, brick, slate, burned bone, metal, and slag. They did not recover any artifacts from Level B1 of the west balk. After they discontinued excavation of Block 3 Lot 4 Excavation Unit 6, archaeologists had completely exposed Feature 2. The team interprets Feature 2 as a possible lime pit.

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**BLOCK 3, LOT 4
EXCAVATION UNIT 6 (N45, E45)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV.	CLOSING ELEV.	DESCRIPTION
I	A1a	SOD LAYER/ PLOW ZONE	10 YR 3/1	GRASS AND GRAVEL	763.4466 ft	763.3077 ft	Level A1a is a natural layer of gravel and grass containing only a few artifacts. Artifacts include slag, brick, and iron as well as glass and ceramic sherds.
I	A1b	TOPSOIL/ PLOWZONE	10 YR 3/1	SANDY LOAM	763.3077 ft	763.2194 ft	This level evens the unit to 0.5 ft below the surface. Here artifacts include more brick, mortar, and charcoal but also include two buttons, and ceramic and glass sherds.
I	A2	TOPSOIL/ PLOWZONE	10 YR 3/1	SANDY LOAM	763.2194 ft	762.6977 ft	Feature 2 becomes visible along the west wall of this unit. It is a continuation of a lime pit present in nearby excavation units. Artifacts include a button and a metal ring. Ceramic and glass sherds are also present.
B	B1	SUBSOIL	10 YR 3/2	SANDY LOAM	762.6977 ft	762.5033 ft	This level has a low density of artifacts. Feature 2 is more defined in this level.

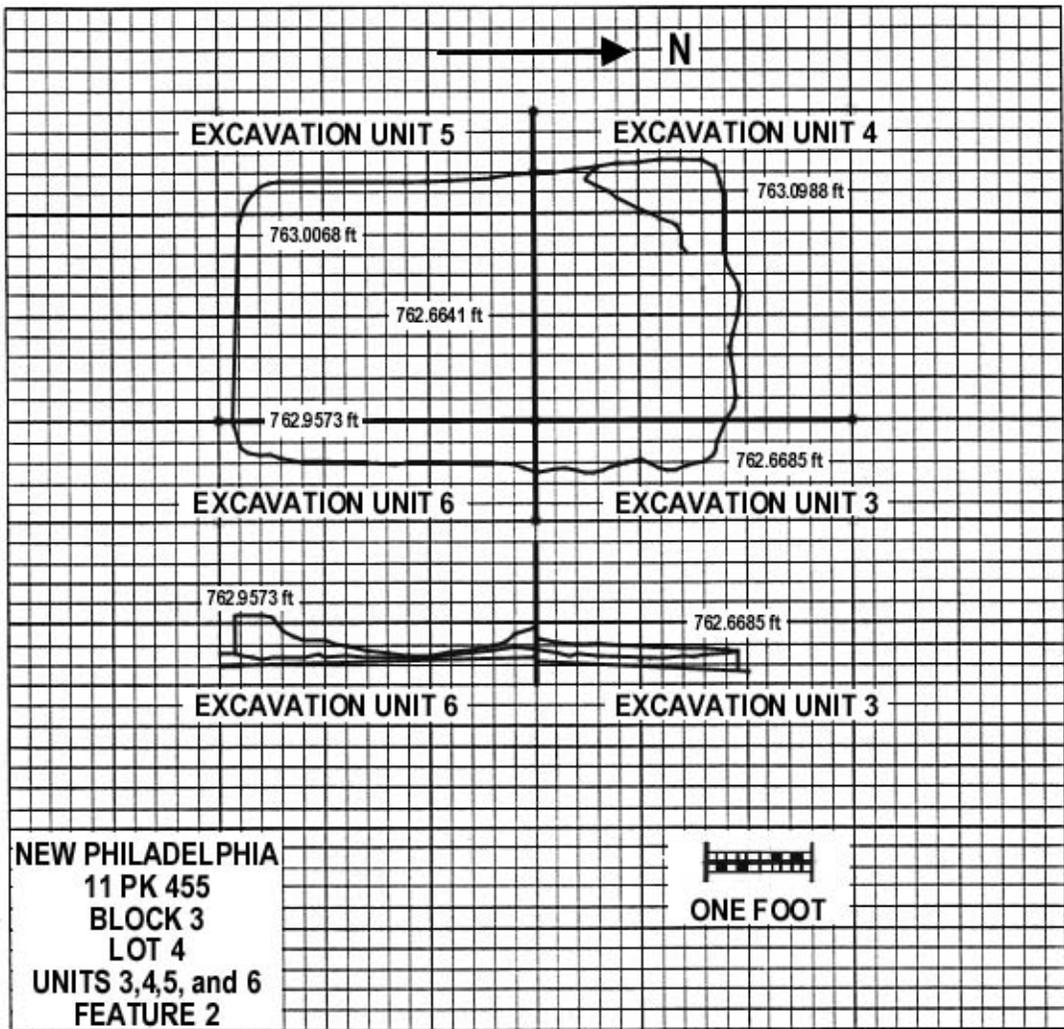
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Feature 2 Summary Form

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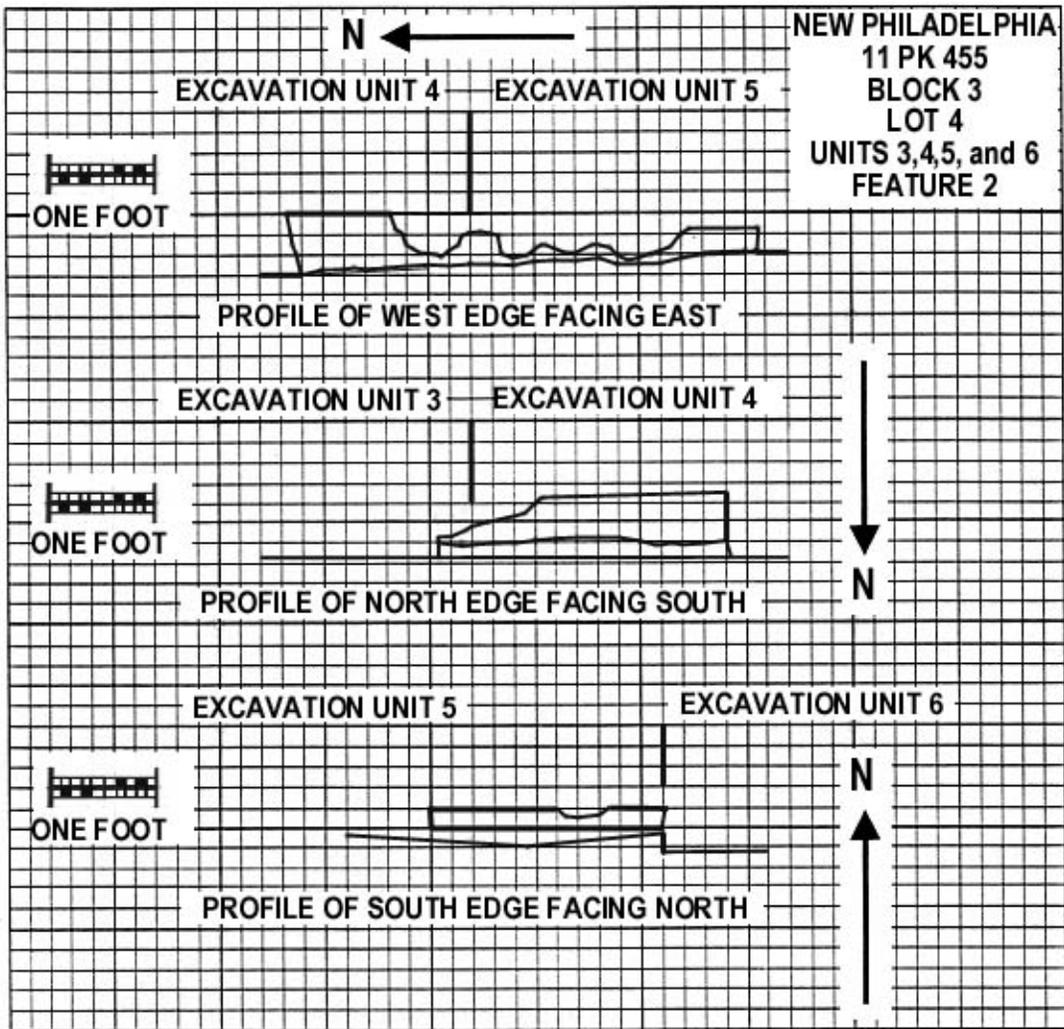
Megan Cerasale, Steven Manion, Dr. Terrance Martin, and Laura Wardwell

Excavation Units 3, 4, 5, 6

Feature 2 is a possible lime pit first encountered in the southwest corner of Block 3 Lot 4 Excavation Unit 3. Such a lime pit may have been used for mixing lime and other materials to create an aggregate for plastering interior walls of structures in the area. The character and most likely uses of this feature should become better defined as more context is uncovered in future excavations. Within the Excavation Unit 3, Feature 2's dimensions are 0.4 ft by 1.7 ft. Within Block 3 Lot 4 Excavation Unit 4, Feature 2 dimensions are 2.6 ft by 1.8 ft. Feature 2 is visible in the southeast quadrant of the unit. Archaeologists troweled the north edge along the east profile of Feature 2 in Excavation Unit 4 to determine that the mortar is a continuation from Excavation Unit 3. The team pedestaled the mortar to entirely expose the feature. Archaeologists excavated the pedestal for Feature 2 as a continuation of Level B1 and designated an associated separate artifact bag. Archaeologists recovered no artifacts from this level. In Excavation Unit 5, Feature 2 appears in the northeast corner and has dimensions of 2.4 ft by 2.8 ft. Archaeologists excavated the pedestal around Feature 2 in Block 3 Lot 4 Excavation Unit 5 as a separate level. They recovered artifacts that were associated with the interior of Feature 2, including one bead, glass, nails, metal, ceramics, slag, brick, and mortar. In Excavation Unit 6, Feature 2 appears in the northwest corner and has the dimensions of 0.4 ft by 2.8 ft. Archaeologists excavated the west balk associated with Feature 2 in Block 3 Lot 4 Excavation Unit 6 as a separate level. They recovered artifacts that were associated with the Feature 2 including nails, glass, ceramics, brick, slate, burned bone, metal, and slag. After they discontinued excavation of Block 3 Lot 4 Excavation Unit 6, archaeologists had completely exposed Feature 2, a large piece of mortar. The average top elevation of Feature 2 is 763.0390 ft amsl and average bottom elevation is 762.7382 ft amsl. Feature 2's dimensions are 2.8 ft by 4.4 ft. The Feature 2 profile reveals that the lime and mortar lens is 0.6 ft thick at its highest point.



Floor plan of lime pit, Feature 2, Block 3, Lot 4, with elevations.



Profiles of lime pit, Feature 2, in Block 3, Lot 4.

New Philadelphia Excavation Unit Summary Form

Block 3 Lot 6

Jesse Sloan, Megan Cerasale, and Carrie Christman

Excavation Unit 1 (N30 E60)

Archaeologists began the excavation of Block 3 Lot 6 Excavation Unit 1 because of the high amount of resistivity measured in the area by the geophysical survey. They excavated Level A1 as an arbitrary level 0.5 ft. Level A1's average opening elevation is 762.6711 ft above median sea level (amsl) and average closing elevation is 762.3559 ft amsl. It is 10YR 3/3 (dark brown) sandy loam. The team recovered artifacts from throughout the unit including ceramics, nails, metal, brick, glass, slag, charcoal, possible chert flakes, mortar, one screw, one clay marble, one ammunition cartridge, and possible leather pieces. The leather pieces are concentrated near the northwest corner and south wall. Archaeologists placed the leather artifacts in the freezer in order to preserve them.

They excavated Level A2 as an arbitrary level of 0.5 ft. Level A2's average opening elevation is 762.3559 ft amsl and average closing elevation is 762.0173 ft amsl. Level A2 is sandy clay loam. The eastern half of the unit is mottled: 10YR 3/4 (dark yellowish brown) 60% and 10YR 5/6 (yellowish brown) 40%. The western half of the unit is 10YR 3/4 (dark yellowish brown) sandy clay loam. Archaeologists recovered artifacts from throughout the unit including glass, metal, one metal button, nails, brick, bone, possible chert flakes, ceramics, slag, mortar, and shell.

We found a large concentration of mortar and metal in the east side area.

- Megan Cerasale [NSF-REU student]

We recovered quite a few artifacts, including glass, ceramics, chert flakes, and metal pieces.

- Jesse Sloan [NSF-REU student]

They could not finish the excavation of Block 3 Lot 6 Excavation Unit 1 before the end of field season. The next level would have been Level B1. Due the high concentration of historic artifacts and the high amount of resistivity measured in the area surrounding Block 3 Lot 6 Excavation Unit 1, the team recommends further investigation of Block 3 Lot 6 in future field seasons.

**NEW PHILADELPHIA, PIKE COUNTY, ILLINOIS
11 PK 455
NSF-REU PROGRAM**

**BLOCK 3, LOT 6
EXCAVATION UNIT 1 (N30, E60)**

MEGA STRAT	LEVEL	STRATUM	MUNSELL	TEXTURE	OPENING ELEV. AMSL	CLOSING ELEV. AMSL	DESCRIPTION
I	A1	SOD LAYER/ PLOW ZONE	10 YR 3/3	SANDY LOAM	762.6711 ft	762.3559 ft	Level A1 is an artifact rich level. Archaeologists discovered an assortment of artifacts including ceramics, glass, and nails. They also sampled brick, mortar, and charcoal. Pieces of leather discovered here in the northwest corner are preserved in a freezer.
I	A2	TOPSOIL/ PLOWZONE	10 YR 3/4 and 10 YR 5/6	SANDY CLAY LOAM	762.3559 ft	762.0173 ft	The arbitrary level A2 contained more artifacts like those from the previous level. Soil colorations vary across this level. A button, pieces of shell, and some chert flakes are among the artifacts found at this level. Archaeologists excavated no further than this at this unit.