FIGURES

(Nine Pages)

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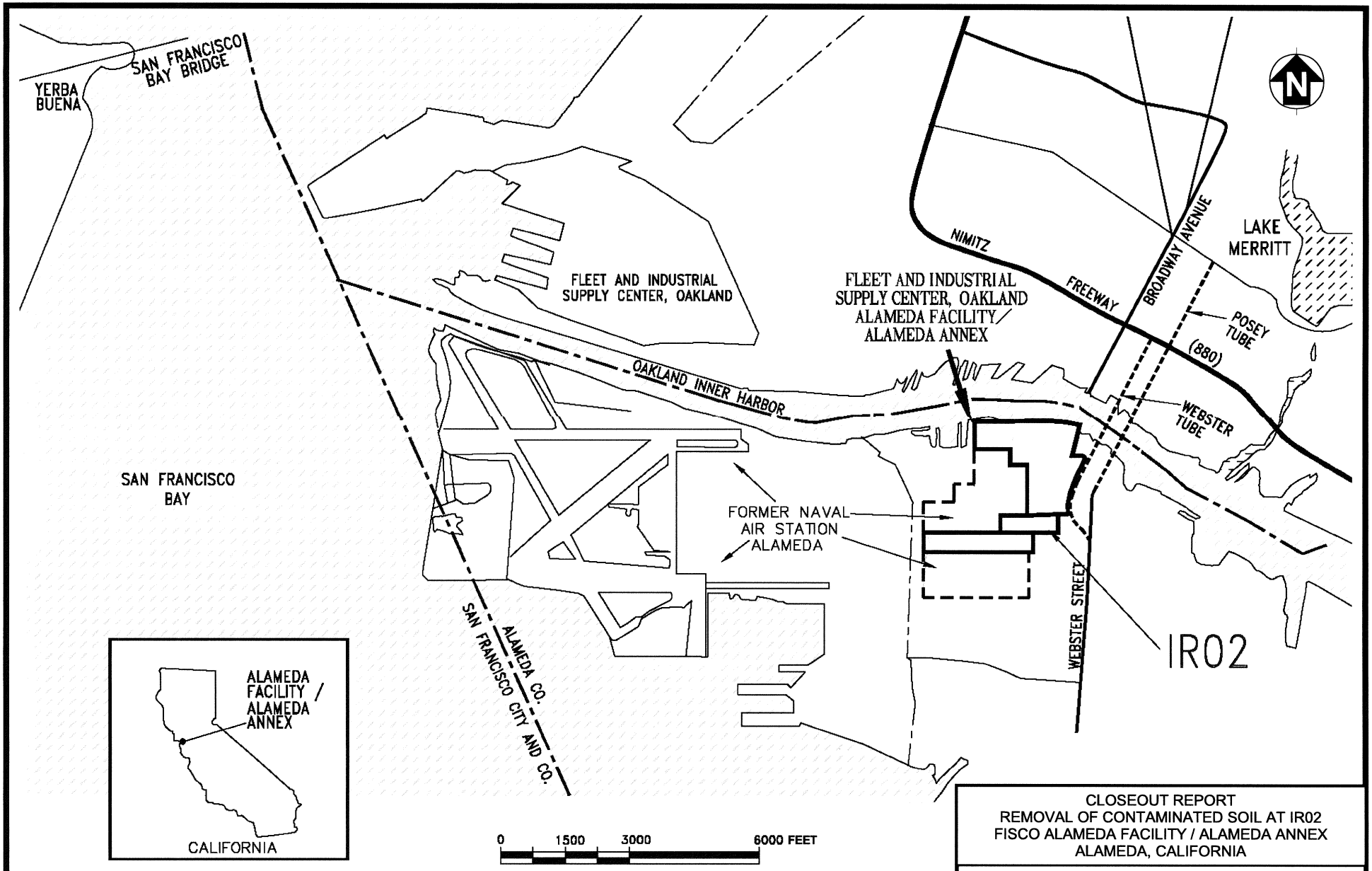

SOURCE: USGS OAKLAND WEST, CALIFORNIA QUADRANGLE 1980

CLOSEOUT REPORT
REMOVAL OF CONTAMINATED SOIL AT IR02
FISCO ALAMEDA FACILITY / ALAMEDA ANNEX
ALAMEDA, CALIFORNIA

FIGURE 1

SITE LOCATION MAP

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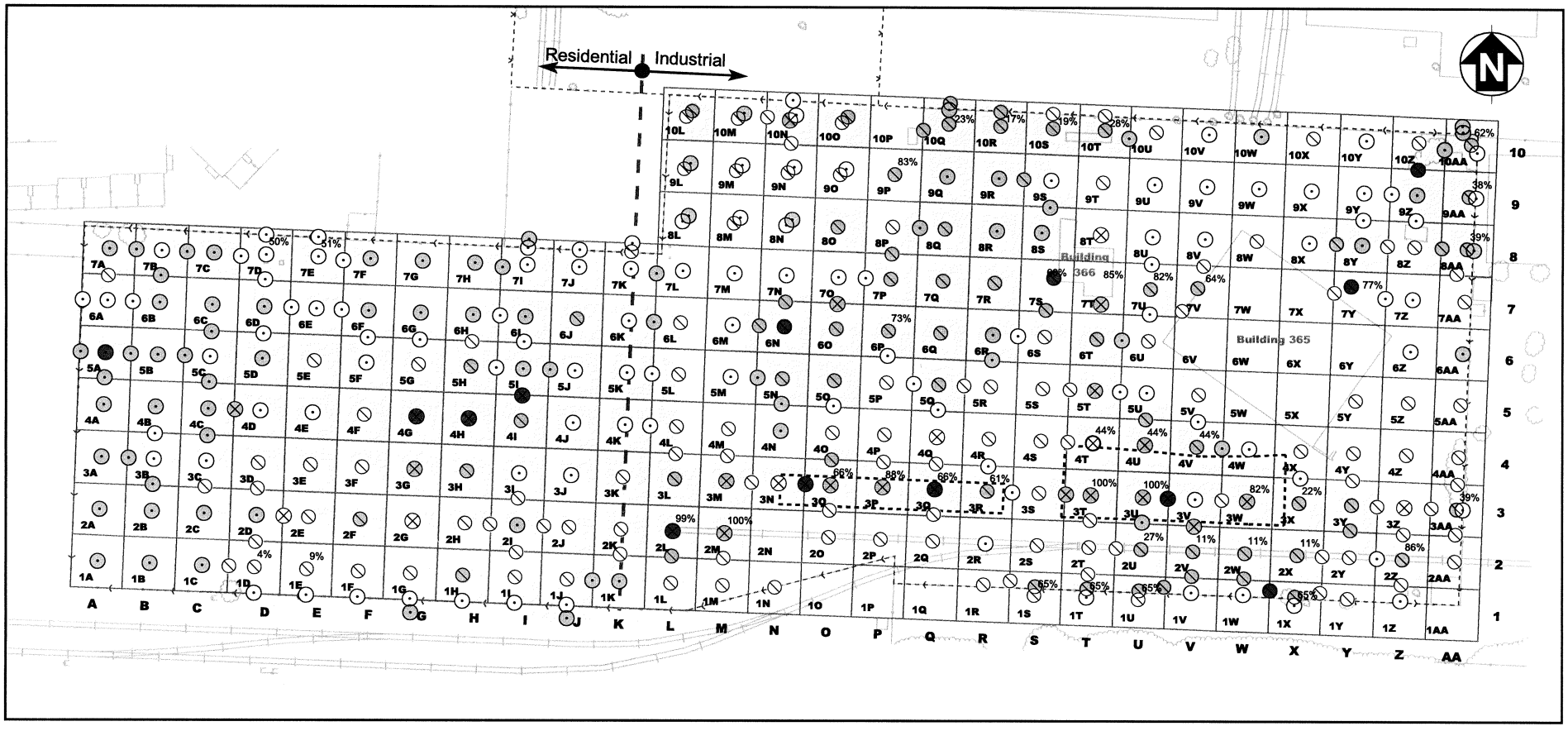

EXCAVATION DEPTH KEY:

		Depth (feet below ground surface)
Surface Sample	FIGURE 2	0.0
0.5 Foot Sample	FIGURE 3	0.5
1.0 Foot Sample	FIGURE 4	1.0
1.5 Foot Sample	FIGURE 5	1.5
2.0 Foot Sample	FIGURE 5 (inset)	2.0
		2.5

GRID CELL:

66% — Percent of grid square obstructed to excavation

3Q — Grid cell number

------ OUTLINE OF REMOVED CONCRETE PADS

--x-- FENCE

FORMER SITE FEATURE

SYMBOL DEFINITIONS:

TOTAL PCBs IN SOIL	CADMIUM IN SOIL: Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
Less Than 1 mg/kg	⊙	⊘	⊗
1 mg/kg to 10 mg/kg	⊙	⊘	⊗
10 mg/kg to 50 mg/kg	⊙	⊘	⊗
Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

70 0 70 140 Feet

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FIGURE 2

SURFACE SAMPLE RESULTS AND SOIL EXCAVATION AREAS FROM SURFACE TO 0.5 FOOT BELOW GROUND SURFACE

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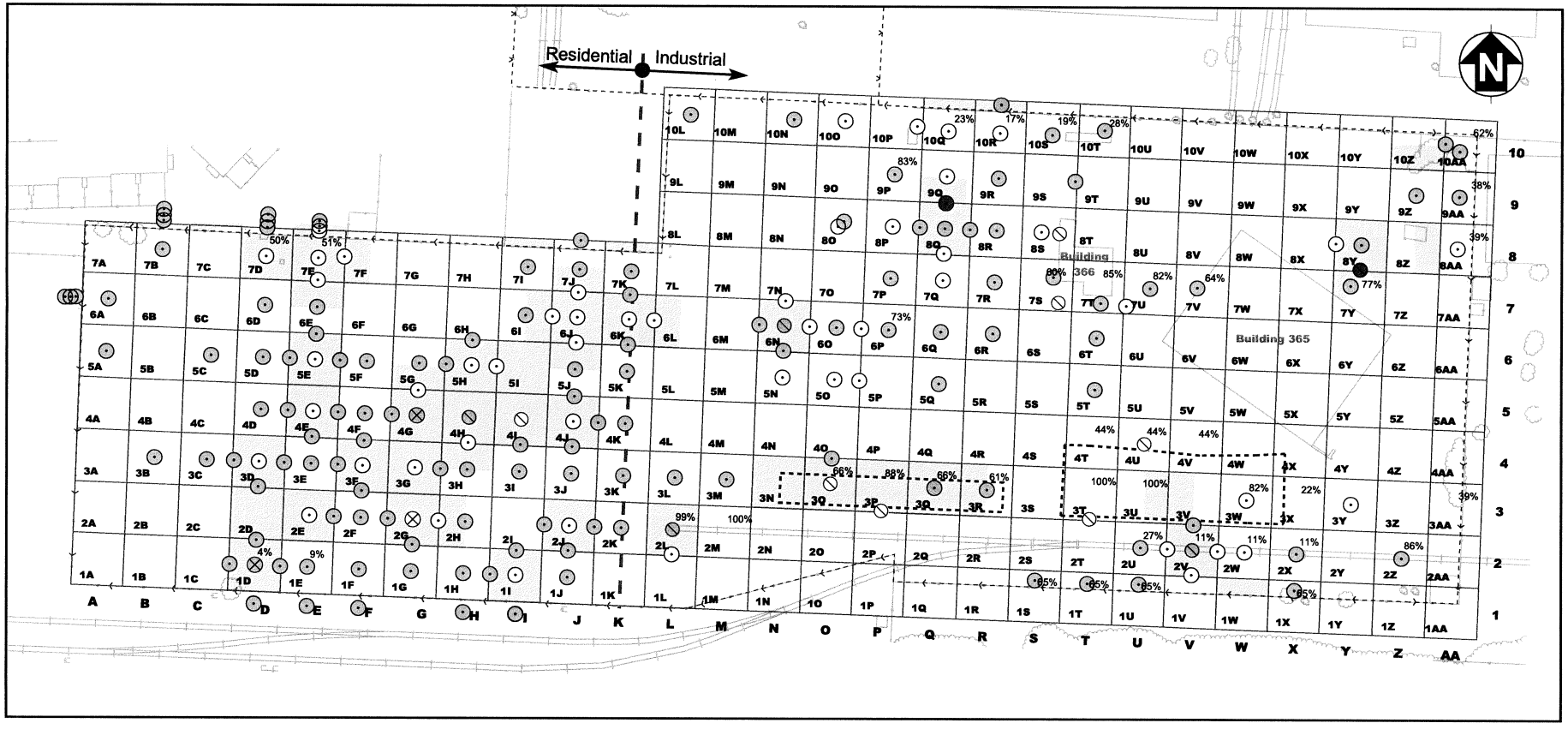

EXCAVATION DEPTH KEY:

		Depth (feet below ground surface)
Surface Sample	FIGURE 2	0.0
0.5 Foot Sample	FIGURE 3	0.5
1.0 Foot Sample	FIGURE 4	1.0
1.5 Foot Sample	FIGURE 5	1.5
2.0 Foot Sample	FIGURE 5 (inset)	2.0
		2.5

GRID CELL:

66% — Percent of grid square obstructed to excavation

3Q — Grid cell number

------ OUTLINE OF REMOVED CONCRETE PADS

--x--- FENCE

FORMER SITE FEATURE

SYMBOL DEFINITIONS:

TOTAL PCBs IN SOIL	CADMIUM IN SOIL: Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
Less Than 1 mg/kg	⊙	⊘	⊗
1 mg/kg to 10 mg/kg	⊙	⊘	⊗
10 mg/kg to 50 mg/kg	⊙	⊘	⊗
Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

70 0 70 140 Feet

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FIGURE 3
SAMPLE RESULTS AT 0.5 FEET AND SOIL EXCAVATION AREAS FROM 0.5 TO 1.0 FOOT BELOW GROUND SURFACE

Tetra Tech EM Inc.

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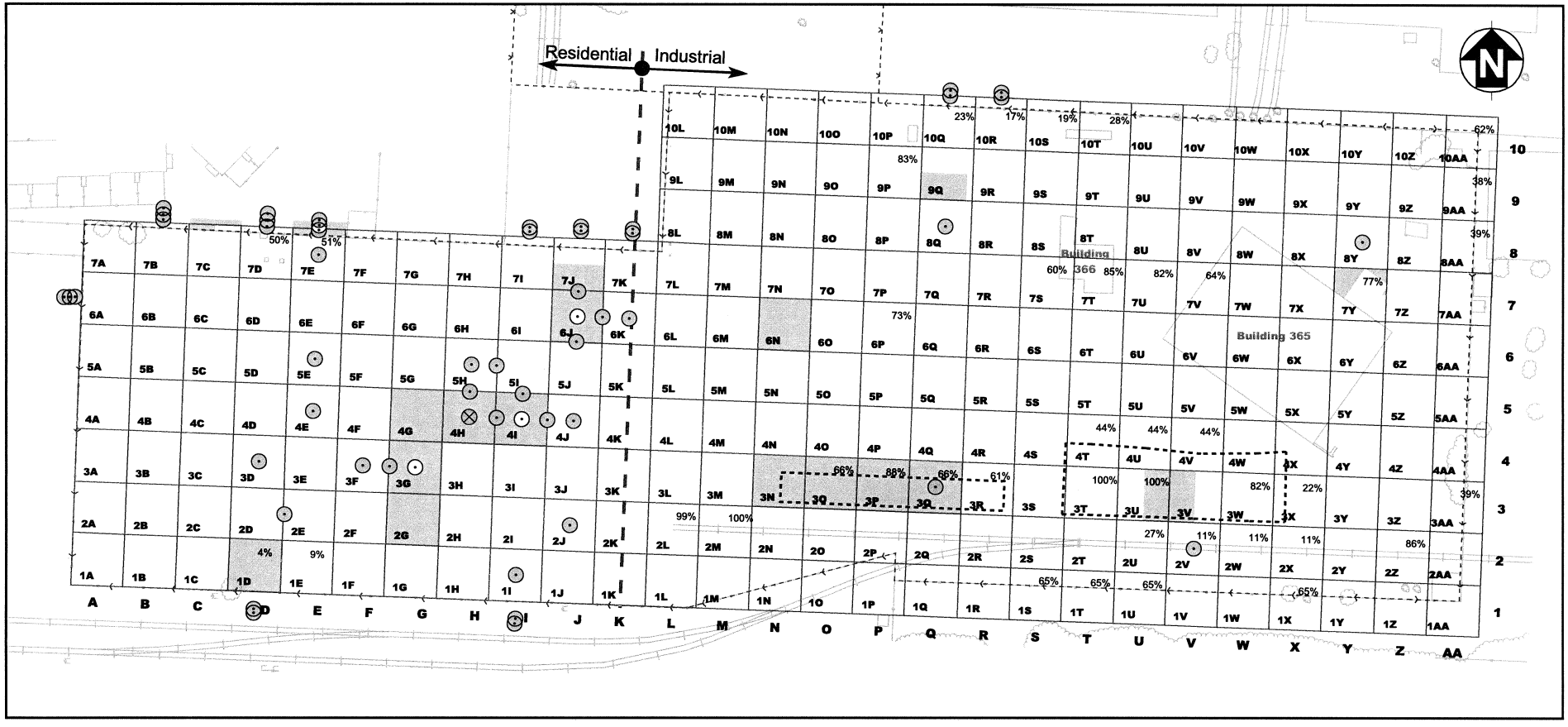

EXCAVATION DEPTH KEY:

		Depth (feet below ground surface)
Surface Sample	FIGURE 2	0.0
0.5 Foot Sample	FIGURE 3	0.5
1.0 Foot Sample	FIGURE 4	1.0
1.5 Foot Sample	FIGURE 5	1.5
2.0 Foot Sample	FIGURE 5 (inset)	2.0
		2.5

GRID CELL:

66% — Percent of grid square obstructed to excavation

3Q — Grid cell number

- - - - - OUTLINE OF REMOVED CONCRETE PADS

- - -x- - - FENCE

FORMER SITE FEATURE

SYMBOL DEFINITIONS:

TOTAL PCBs IN SOIL	CADMIUM IN SOIL: Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
Less Than 1 mg/kg	⊙	⊘	⊗
1 mg/kg to 10 mg/kg	⊙	⊘	⊗
10 mg/kg to 50 mg/kg	⊙	⊘	⊗
Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

70 0 70 140 Feet

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FIGURE 4

SAMPLE RESULTS AT 1.0 FEET AND SOIL EXCAVATION AREAS FROM 1.0 TO 1.5 FEET BELOW GROUND SURFACE

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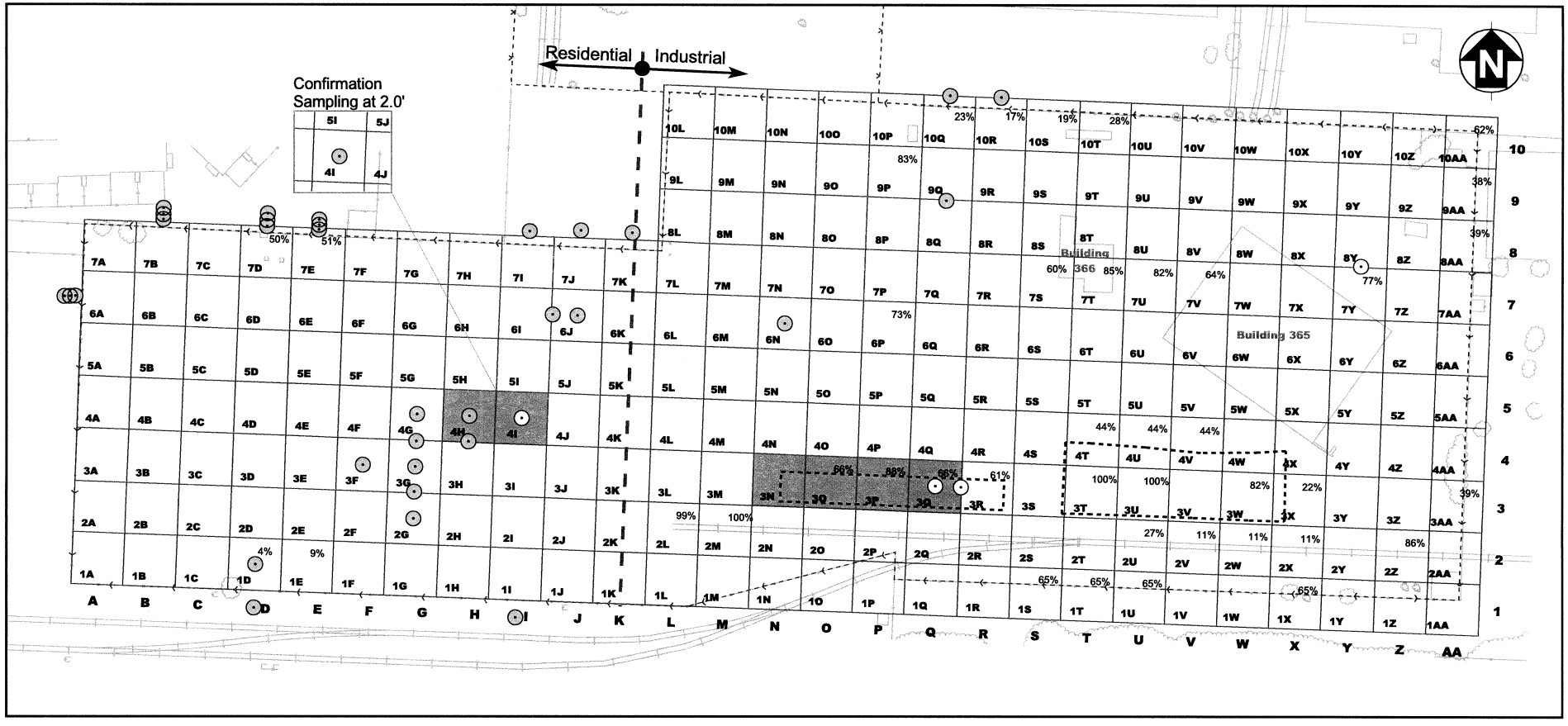
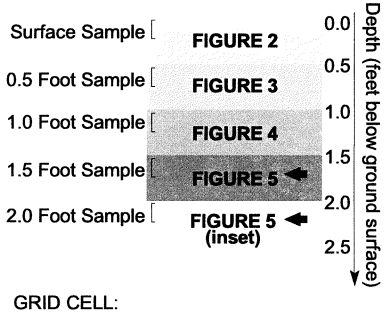


EXCAVATION DEPTH KEY:



GRID CELL:

66% — Percent of grid square obstructed to excavation

3Q — Grid cell number

- - - - - OUTLINE OF REMOVED CONCRETE PADS

- - -x- - - FENCE

FORMER SITE FEATURE

SYMBOL DEFINITIONS:

TOTAL PCBs IN SOIL	CADMIUM IN SOIL: Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
Less Than 1 mg/kg	⊙	⊘	⊗
1 mg/kg to 10 mg/kg	⊙	⊘	⊗
10 mg/kg to 50 mg/kg	⊙	⊘	⊗
Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

70 0 70 140 Feet

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FIGURE 5

SAMPLE RESULTS AT 1.5 FEET AND SOIL EXCAVATION AREAS FROM 1.5 TO 2.0 FEET BELOW GROUND SURFACE

Tetra Tech EM Inc.

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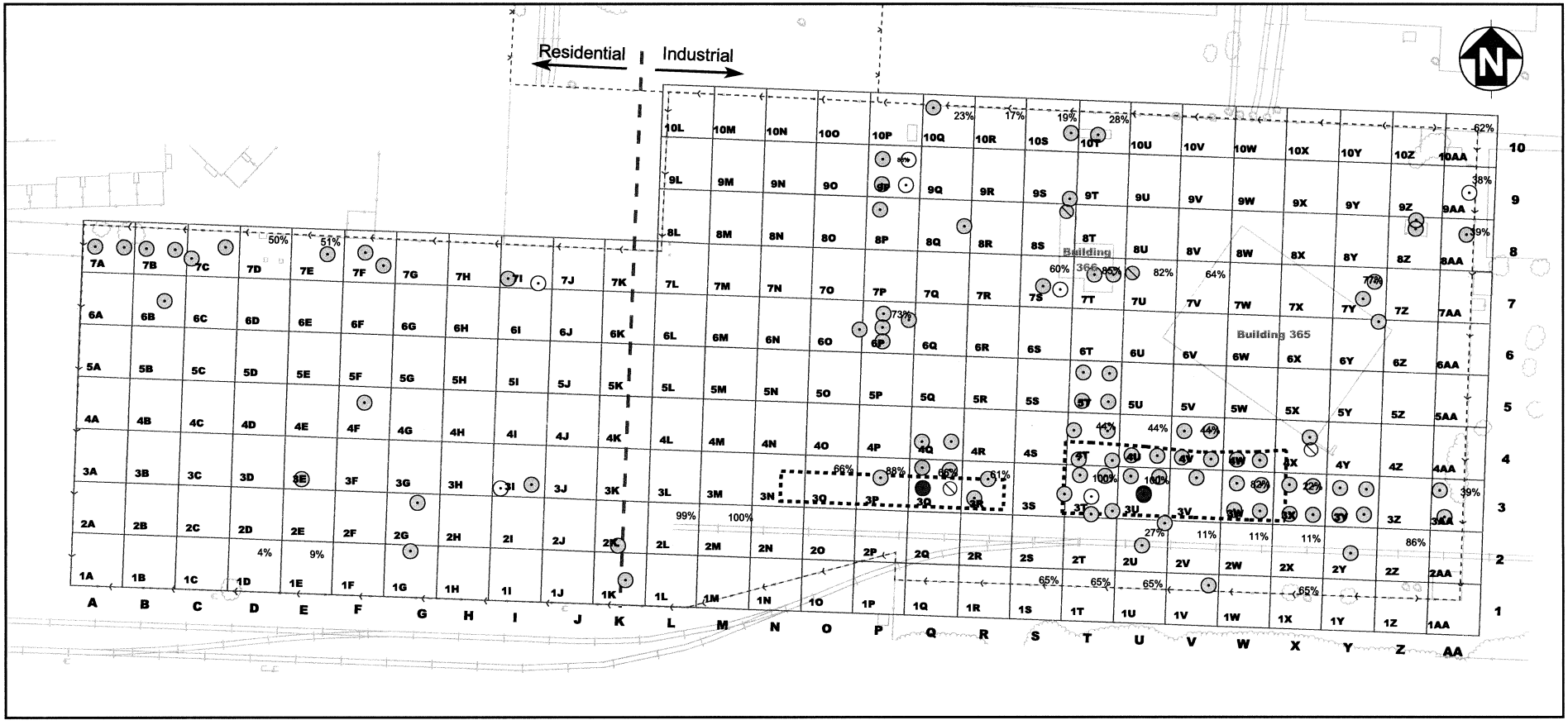

GRID CELL:

66% — Percent of grid square obstructed to excavation

3Q — Grid cell number

------ OUTLINE OF REMOVED CONCRETE PADS

--x-- FENCE

FORMER SITE FEATURE

SYMBOL DEFINITIONS:

TOTAL PCBs IN SOIL	CADMIUM IN SOIL: Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
Less Than 1 mg/kg	⊙	⊘	⊗
1 mg/kg to 10 mg/kg	⊙	⊘	⊗
10 mg/kg to 50 mg/kg	⊙	⊘	⊗
Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

70 0 70 140 Feet

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FIGURE 6

PAVED SURFACE SAMPLES

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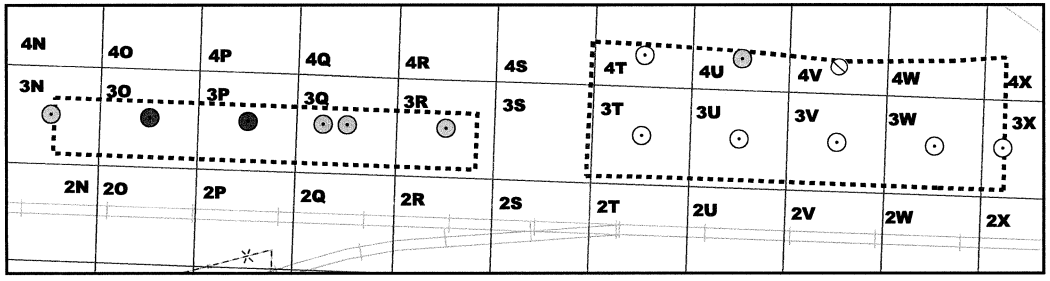
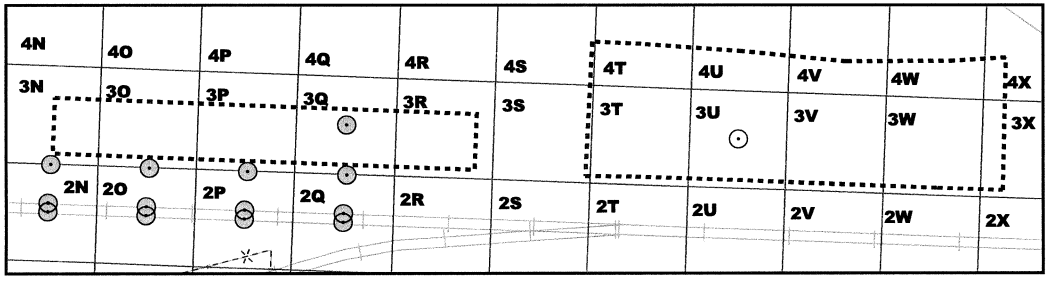
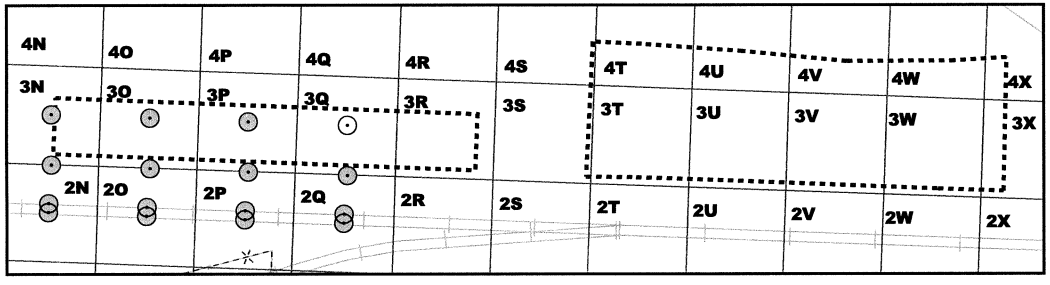
SAMPLES AT 0.5 FOOT BELOW GROUND SURFACE



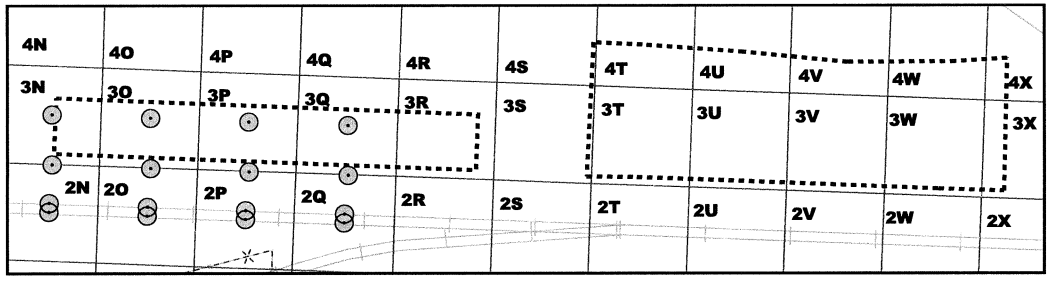
SAMPLES AT 1.0 FOOT BELOW GROUND SURFACE

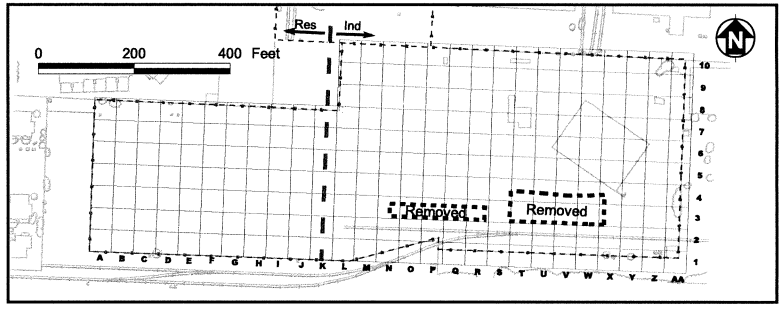


SAMPLES AT 2.0 FEET BELOW GROUND SURFACE



SAMPLES AT 3.0 FEET BELOW GROUND SURFACE





SYMBOL DEFINITIONS:		CADMIUM IN SOIL		
		Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
TOTAL PCBs IN SOIL	Less Than 1 mg/kg	⊙	⊘	⊗
	1 mg/kg to 10 mg/kg	⊙	⊘	⊗
	10 mg/kg to 50 mg/kg	⊙	⊘	⊗
	Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

GRID CELL:

3Q — Grid cell number

OUTLINE OF REMOVED CONCRETE PADS

FENCE

FORMER SITE FEATURE

40 0 40 80 Feet

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FIGURE 7

AREA UNDER FORMER STORAGE BIN PADS

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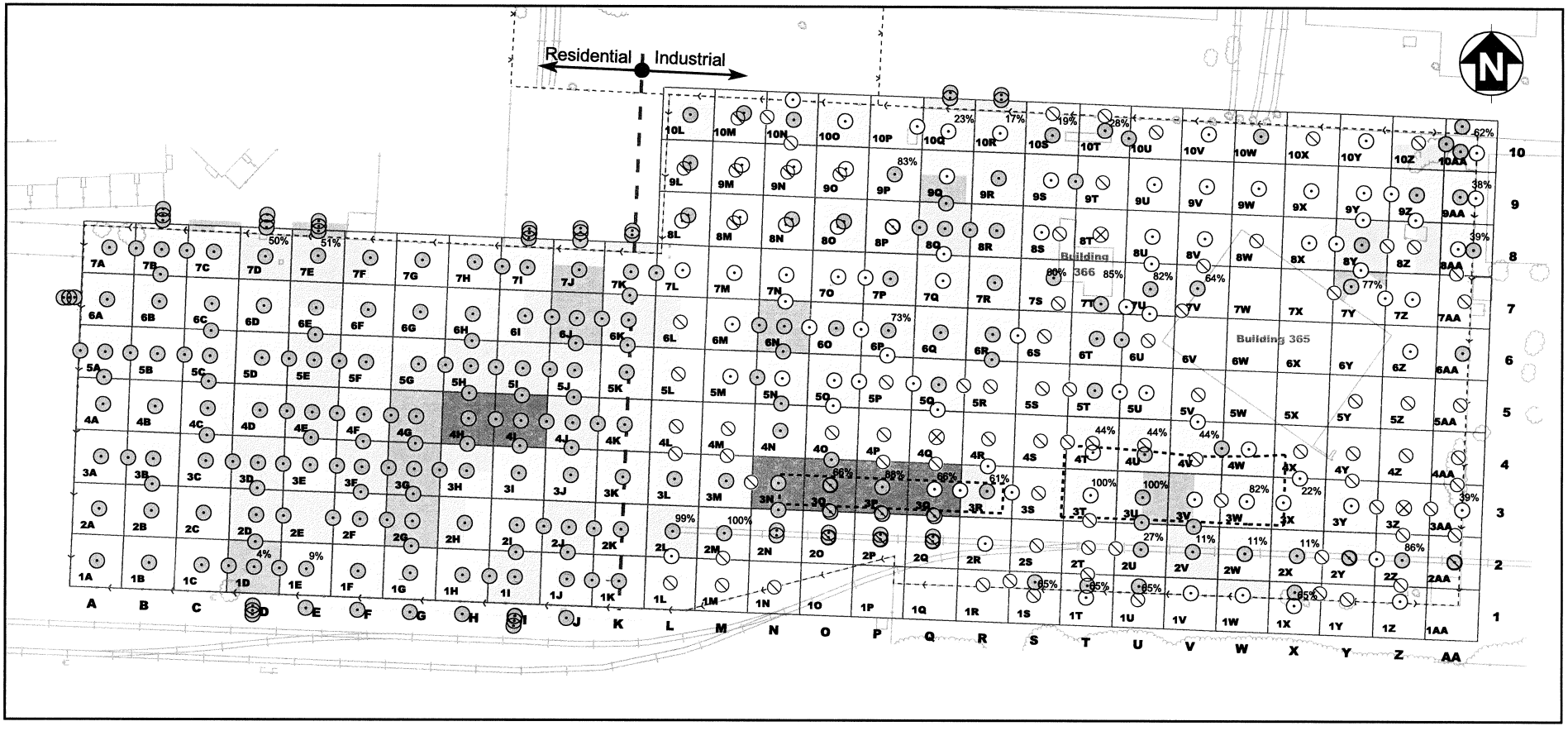

EXCAVATION DEPTH KEY:

		Depth (feet below ground surface)
Surface Sample	FIGURE 2	0.0
0.5 Foot Sample	FIGURE 3	0.5
1.0 Foot Sample	FIGURE 4	1.0
1.5 Foot Sample	FIGURE 5	1.5
2.0 Foot Sample	FIGURE 5 (inset)	2.0
		2.5

GRID CELL:

66% — Percent of grid square obstructed to excavation

3Q — Grid cell number

------ OUTLINE OF REMOVED CONCRETE PADS

--x--- FENCE

FORMER SITE FEATURE

SYMBOL DEFINITIONS:

TOTAL PCBs IN SOIL	CADMIUM IN SOIL: Less Than 12 mg/kg	12 mg/kg to 50 mg/kg	Greater Than 50 mg/kg
Less Than 1 mg/kg	⊙	⊘	⊗
1 mg/kg to 10 mg/kg	⊙	⊘	⊗
10 mg/kg to 50 mg/kg	⊙	⊘	⊗
Greater Than 50 mg/kg	●	●	●

NOTES:
12 mg/kg is the residential cleanup level for cadmium.
450 mg/kg is the industrial cleanup level for cadmium.
1 mg/kg is the residential cleanup level for PCBs.
10 mg/kg is the industrial cleanup level for PCBs.

70 0 70 140 Feet

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FIGURE 8

FINAL CONFIRMATION SAMPLE RESULTS AND EXCAVATION DEPTHS

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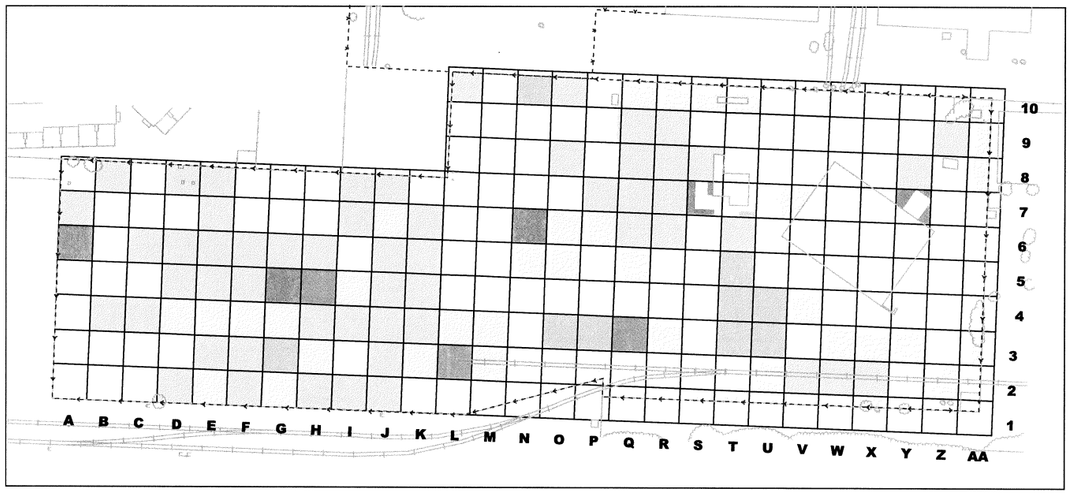
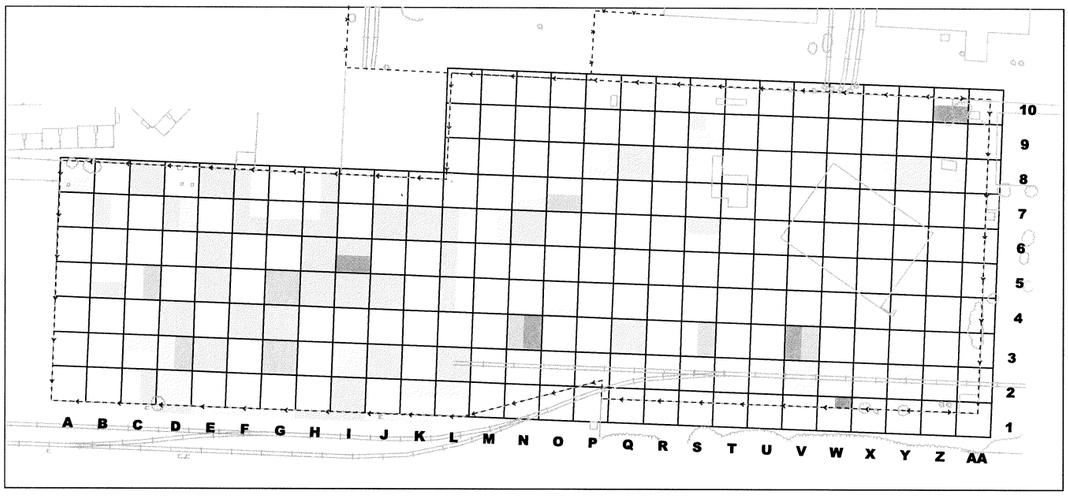


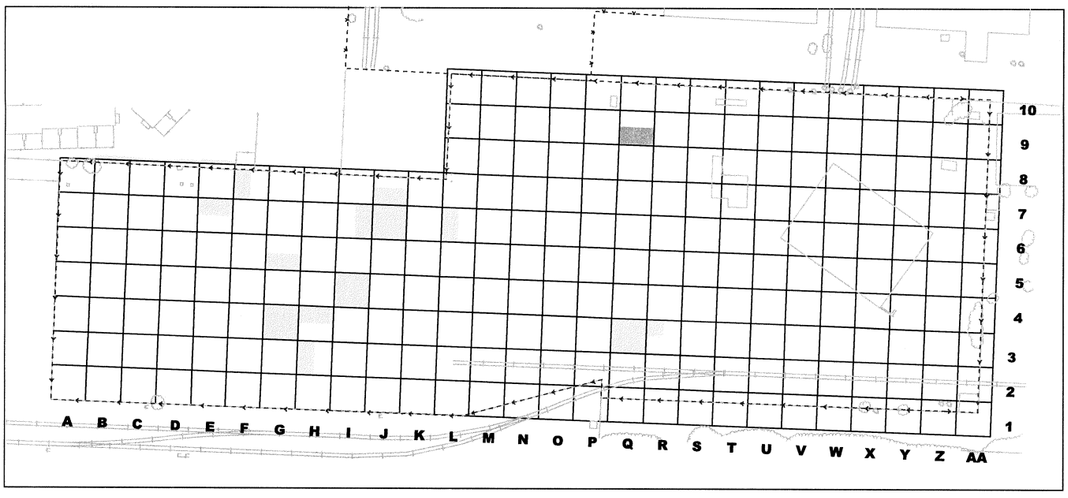
ROUND 1

Excavation depth of 0.5 foot



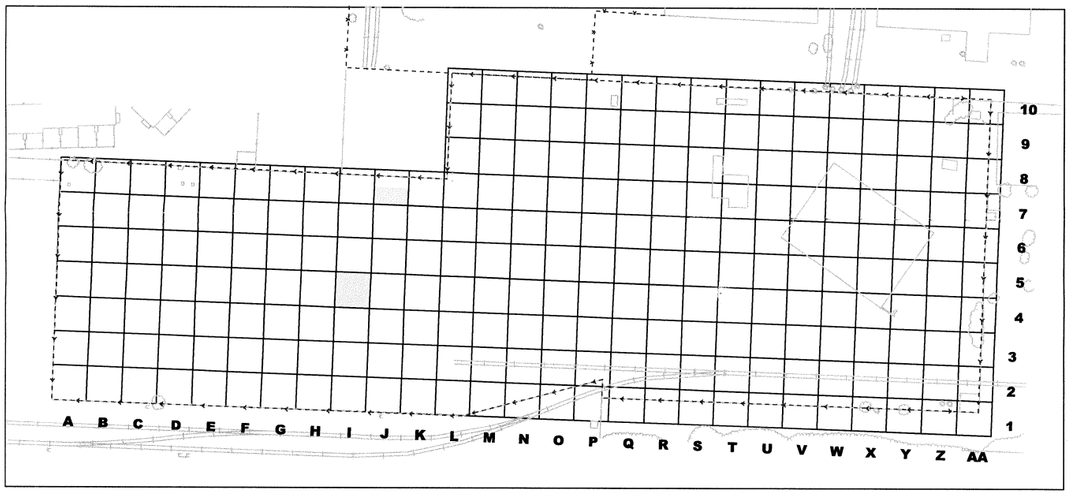
ROUND 2

Excavation depths of 0.5 foot, 1.0 foot, or 1.5 feet below ground surface



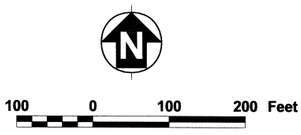
ROUND 3

Excavation depths of 1.0 foot, 1.5 feet, or 2.0 feet below ground surface



ROUND 4

Excavation depths of 1.5 feet or 2.0 feet below ground surface



WASTE TYPE
- Non Hazardous
- California Hazardous
- RCRA Hazardous
- California Hazardous and TSCA regulated
- RCRA Hazardous and TSCA regulated

RCRA : Resource Conservation and Recovery Act
TSCA : Toxic Substances Control Act

- - -x- - - FENCE
FORMER SITE FEATURE
GRID CELL

Note: These figures show the waste characterization for only those grids that were characterized prior to excavation. Several grids that were characterized after the soil was excavated and placed in a stockpile are not shown.

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FIGURE 9

WASTE CHARACTERIZATION MAP

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