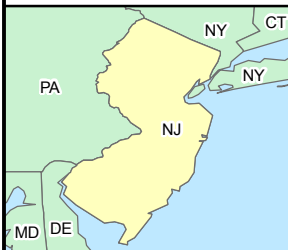


Figures

\\uspsw2\fp001\DATA_USPSW2\FP001\Environment\PPG\Scada\Way\Project\PPG-NJC\Program6-ProjectInput6_4-GIS\MXD\GA Group\RIWP-GW-USGS_Site_Location_Map.mxd



Map Location



USGS Site Location Map PPG Site 156, Jersey City Hudson County, New Jersey

0 500 1,000 2,000 3,000 4,000 5,000 6,000 Feet

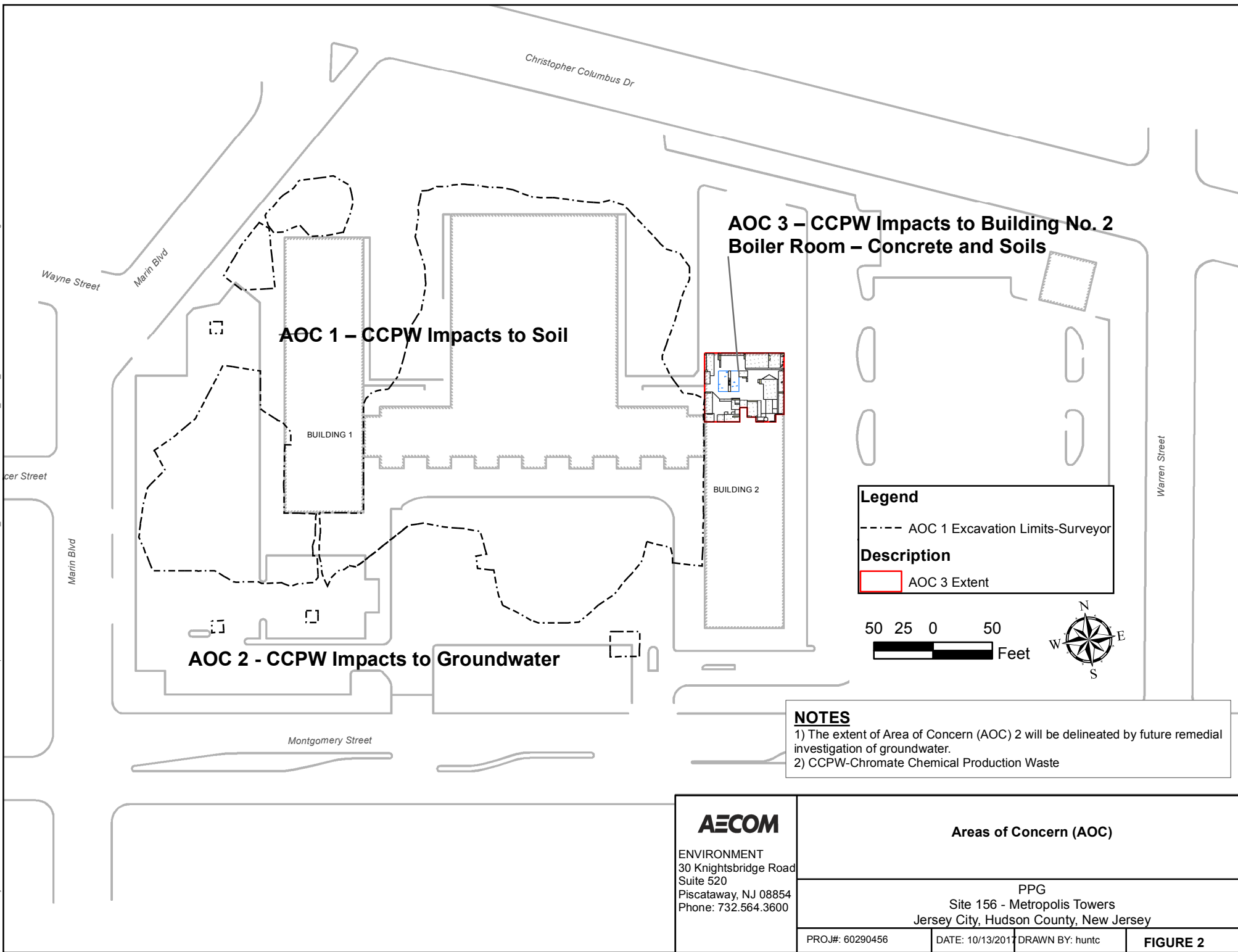
Map Projection: NJ, State Plane, NAD 83, Feet.
Image Source: USGS Topographic Quadrangle: Jersey City, NJ, 1967 - Photorevised 1981.
Scale: 1:24,000 Contour Interval: 10'
Latitude Coordinates: 40.6952° - 40.7410°; Longitude Coordinates: -074.0676° - -074.0134°.

AECOM

Figure 1

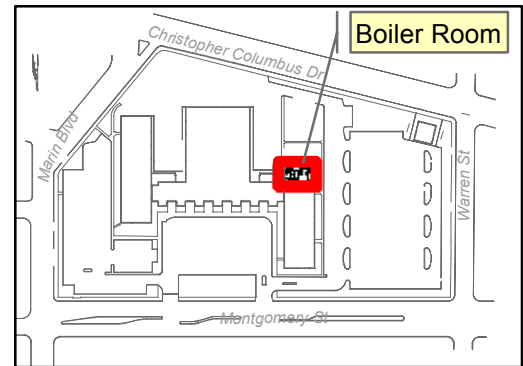
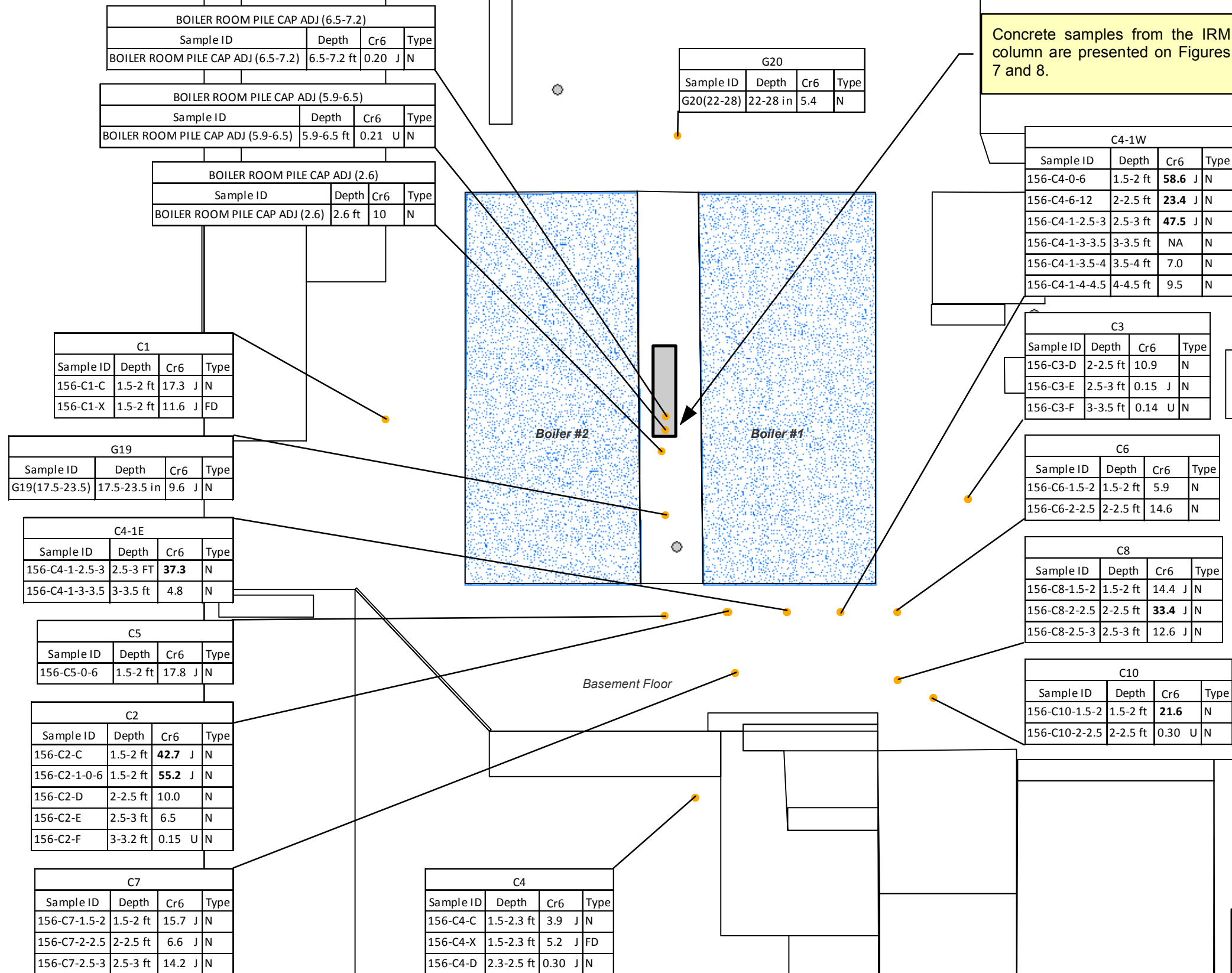
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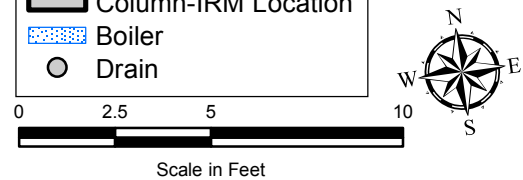
AECOM ENVIRONMENT 30 Knightsbridge Road Suite 520 Piscataway, NJ 08854 Phone: 732.564.3600	Areas of Concern (AOC)		
	PPG Site 156 - Metropolis Towers Jersey City, Hudson County, New Jersey		
	PROJ#: 60290456	DATE: 10/13/2017	DRAWN BY: huntc
FIGURE 2			

Last saved by: huntc 2017.10.16
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LEGEND

- Soil Sample
- Column-IRM Location
- Boiler
- Drain



NOTES

Units: milligrams per kilogram (mg/kg)
Qualifiers: J-Estimated, U-Nondetect, R-Rejected, RA-Rejected but usable
Sample Types: N-Environmental sample, FD-Field Duplicate
Other acronyms: Cr6-Hexavalent Chromium, ft-feet, IRM-Interim Remedial Measure, NA-Not Available
Criteria: For Hexavalent Chromium (Cr6), the NJDEP Chromium Soil Cleanup Criteria (CrSCC) Has Been Used
1) Sample depths are measured from the top of the floor slab.
2) Exceedances of the 20 mg/kg CrSCC for Cr6 are bolded.

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SubSlab Soil Sample Hexavalent Chromium Results, (Samples Collected: 2013 and 2014)

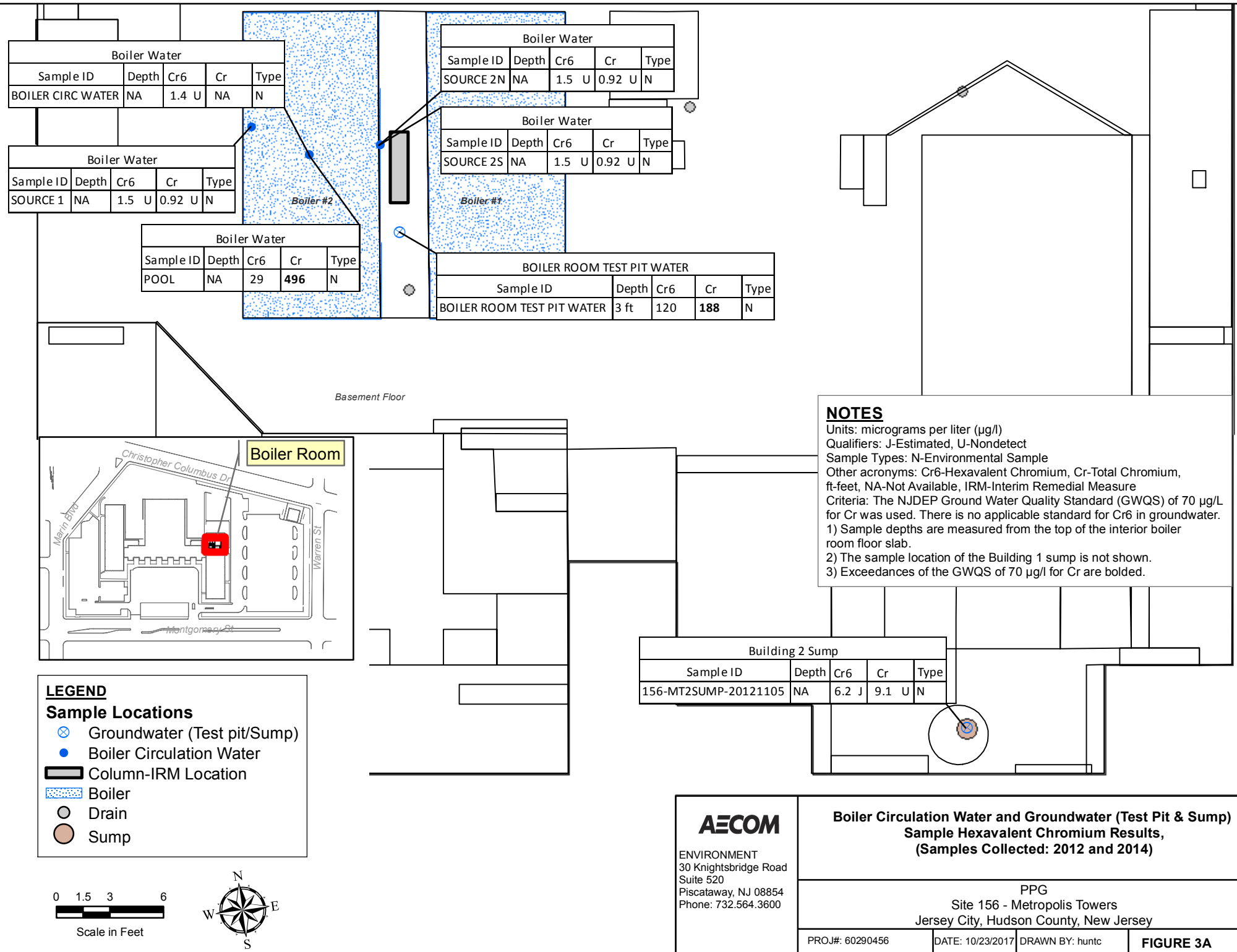
PPG
Site 156 - Metropolis Towers
Jersey City, Hudson County, New Jersey

PROJ#: 60290456

DATE: 10/23/2017

DRAWN BY: huntc

FIGURE 3

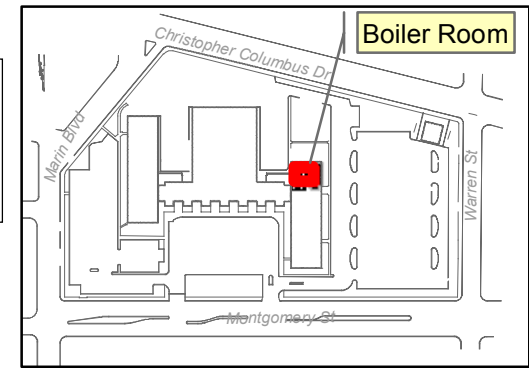


G20			
Sample ID	Depth	Cr6	Type
G20(8.5-11)	8.5-11 in	0.37 J	N

LEGEND

- Below Surface (Bottom) Slab Samples
- Column-IRM Location
- Boiler
- Drain

0 1 2 4
Scale in Feet



C1			
Sample ID	Depth	Cr6	Type
156-C1-A	10-12 in	17.2	N

G19			
Sample ID	Depth	Cr6	Type
156-B2-CONC-G19-02-04IN	2-4 in	3.5 J	N
156-B2-CONC-G19-08-12IN	8-12 in	1.2 J	N

BOILER ROOM PILE CAP ADJ			
Sample ID	Depth	Cr6	Type
BOILER ROOM PILE CAP ADJ (0.8)	0.8-1 ft bgs	1.2	N

156-C11			
Sample ID	Depth	Cr ⁺⁶	Type
156-C11-MID	2-4 in	0.86	N
156-C11-BTM	8-12 in	1.1	N

C3			
Sample ID	Depth	Cr6	Type
156-C3-A	8.8-10.8 in	1.3	N

C2			
Sample ID	Depth	Cr6	Type
156-C2-A	10-12 in	2.7 J	N
156-C2-X	10-12 in	0.77 J	FD

Basement Floor

C4			
Sample ID	Depth	Cr6	Type
156-C4-A	7.6-9.6 in	0.30 J	N
156-C4-XX	7.6-9.6 in	0.21 J	FD

NOTES

Units: milligrams per kilogram (mg/kg)
 Qualifiers: J-Estimated, U-Nondetect
 Sample Types: N-Environmental Sample, FD-Field Duplicate
 Other acronyms: Cr6-Hexavalent Chromium, bgs - Below Ground Surface, ft-feet, in-inch, IRM-Interim Remedial Measure
 Criteria: For Hexavalent Chromium (Cr6), the NJDEP Chromium Soil Cleanup Criteria (CrSCC) Has Been Used
 1) Sample depths are measured from the top of the floor slab.

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Below Surface (Bottom) Slab Concrete Sample Hexavalent Chromium Results, (Samples Collected: 2013, 2014 and 2016)

PPG
 Site 156 - Metropolis Towers
 Jersey City, Hudson County, New Jersey

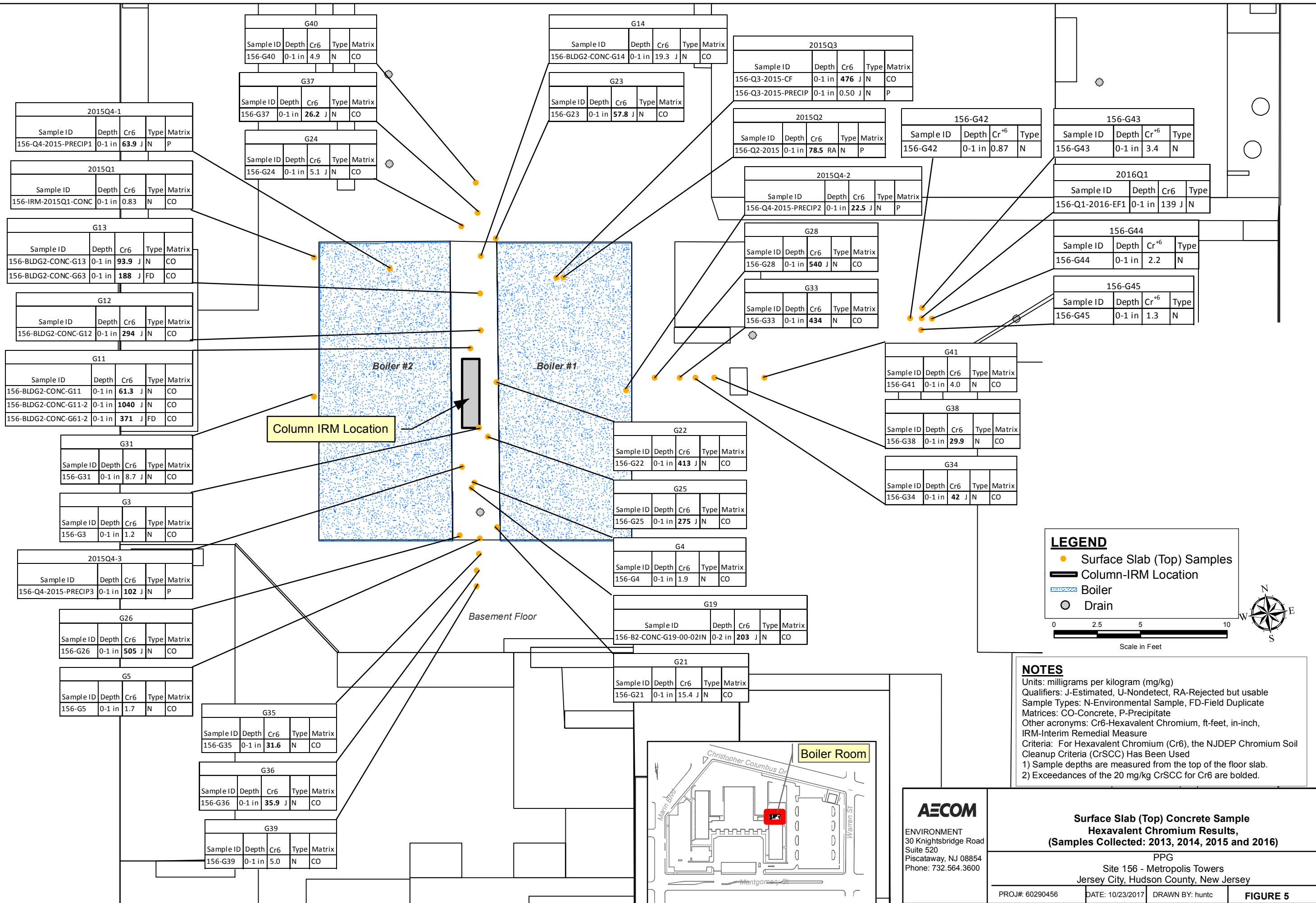
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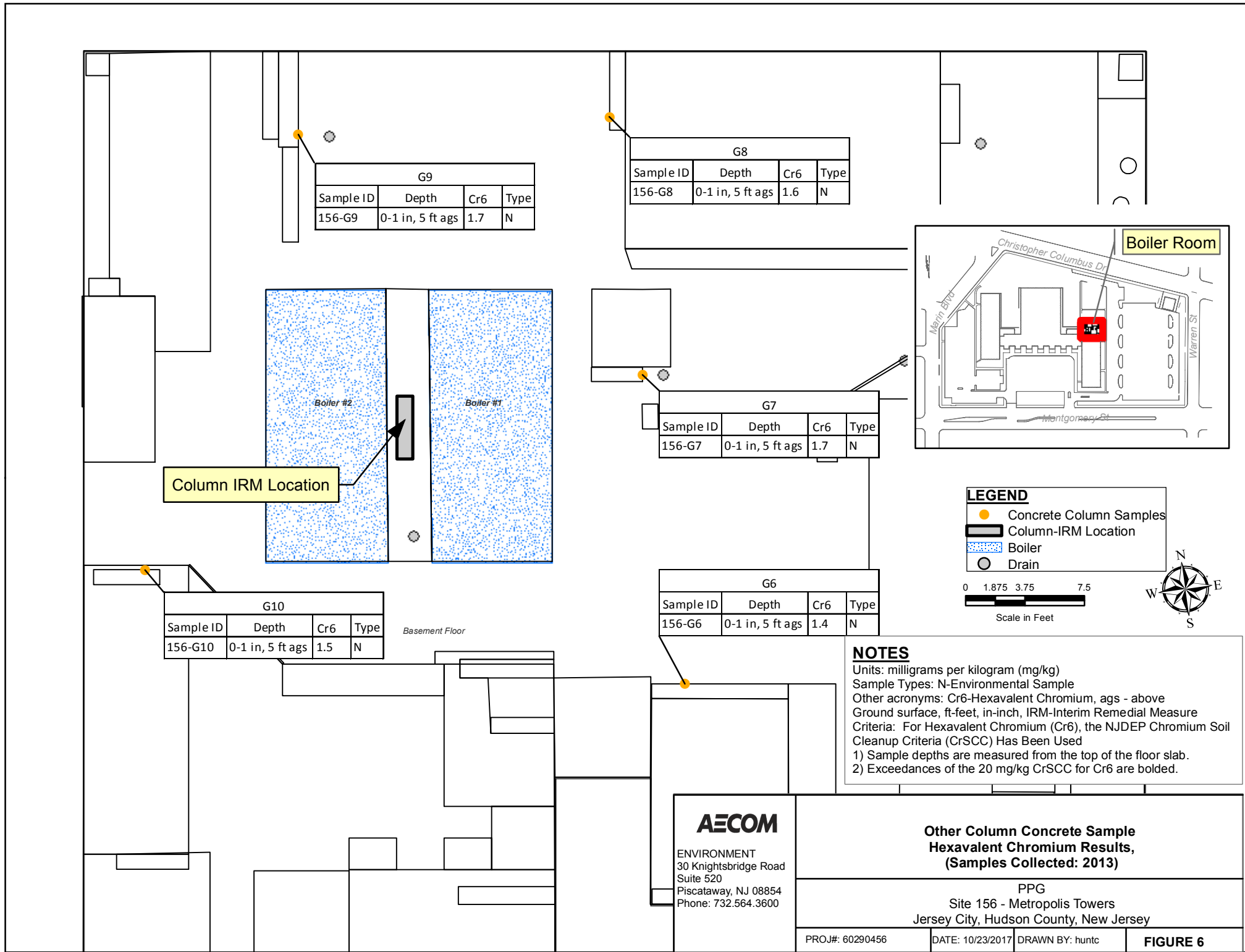
DATE: 10/23/2017

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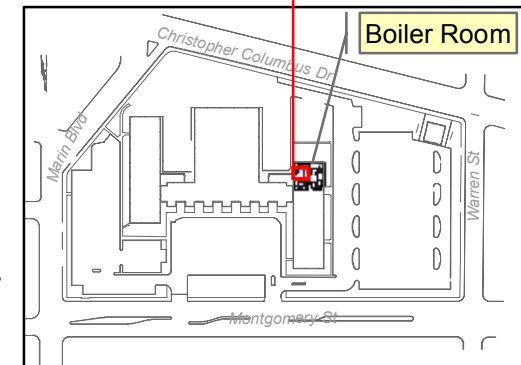
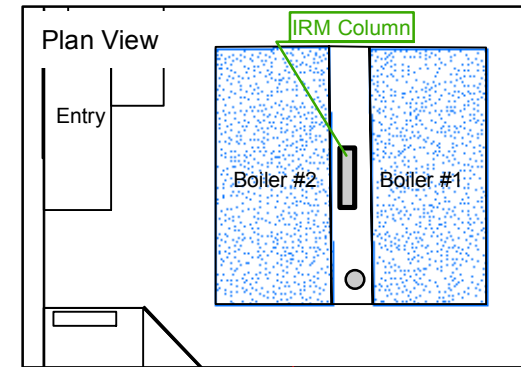
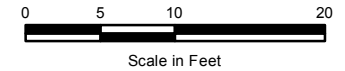
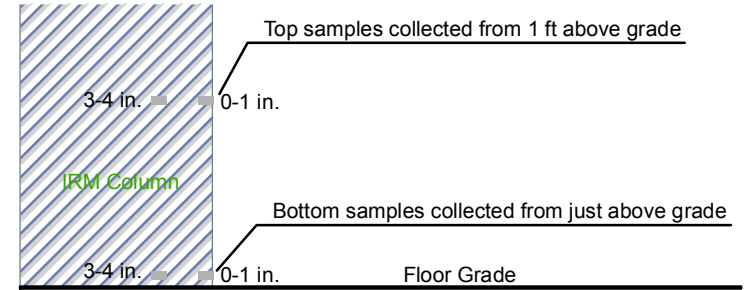
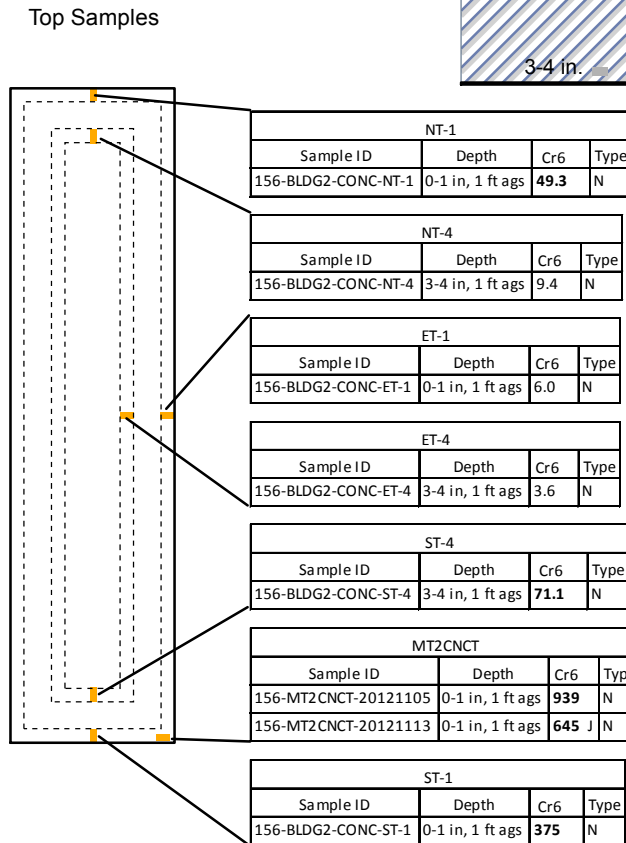
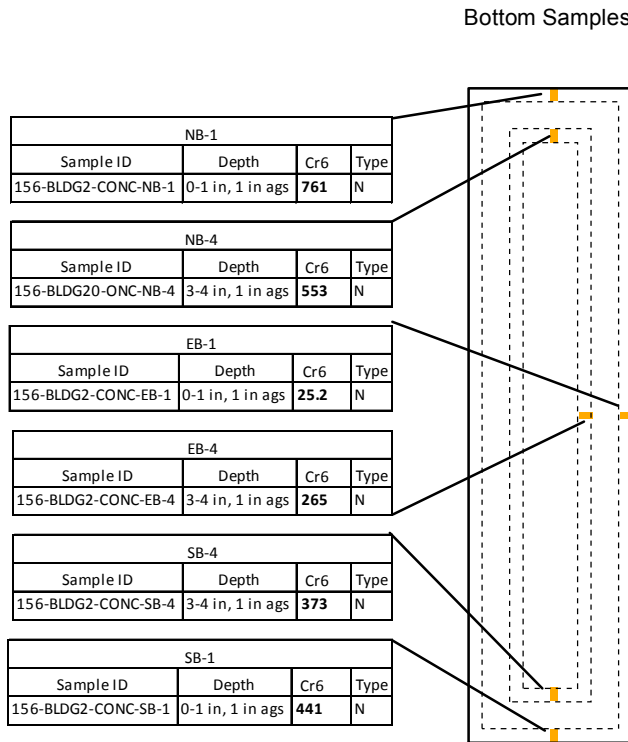
FIGURE 4

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Plan View Cross-Sections of IRM Column Hexavalent Chromium Results (mg/kg)



NOTES

Units: milligrams per kilogram (mg/kg)

Qualifiers: J-Estimated

Sample Types: N-Environmental Sample, FD-Field Duplicate
Other acronyms: Cr6-Hexavalent Chromium, ft-feet,
in-inch, IRM-Interim Remedial Measure, ags-Above Ground
Surface

Criteria: For Hexavalent Chromium (Cr6), the NJDEP Chromium
Soil Cleanup Criteria (CrSCC) Has Been Used

- 1) Sample depths are measured from the top of the floor slab.
- 2) Exceedances of the 20 mg/kg CrSCC for Cr6 are bolded.

LEGEND

- Concrete Sample Location
- Outer Edge of IRM Column

LEGEND (Plan View)

- Column-IRM Location
- Boiler
- Drain

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Hexavalent Chromium Results for Concrete Samples Obtained Within the Column IRM, (Samples Collected: 2012 and 2013)

PPG
Site 156 - Metropolis Towers
Jersey City, Hudson County, New Jersey

PROJ#: 60290456

DATE: 10/16/2017

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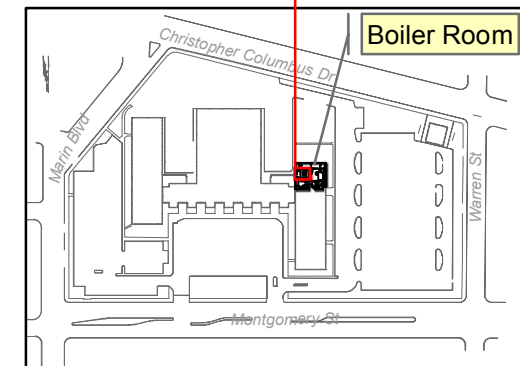
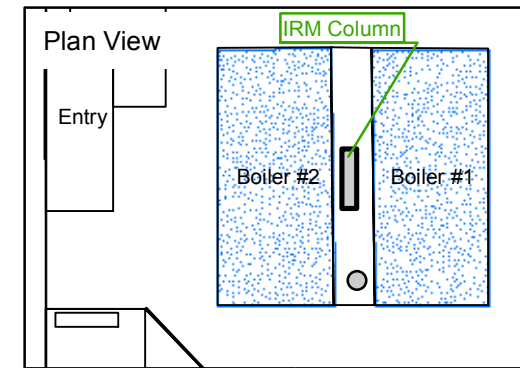
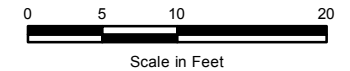
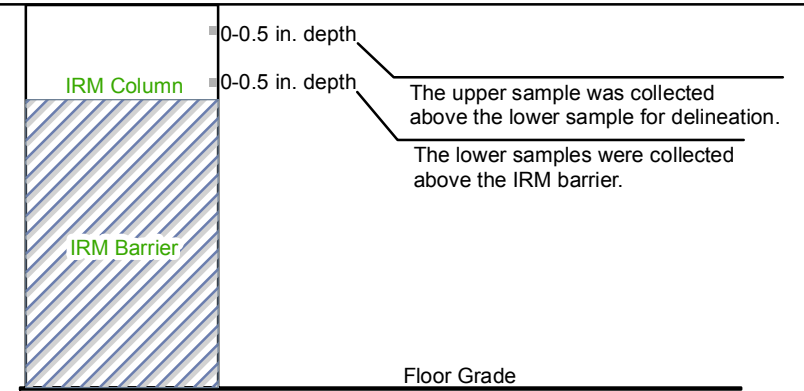
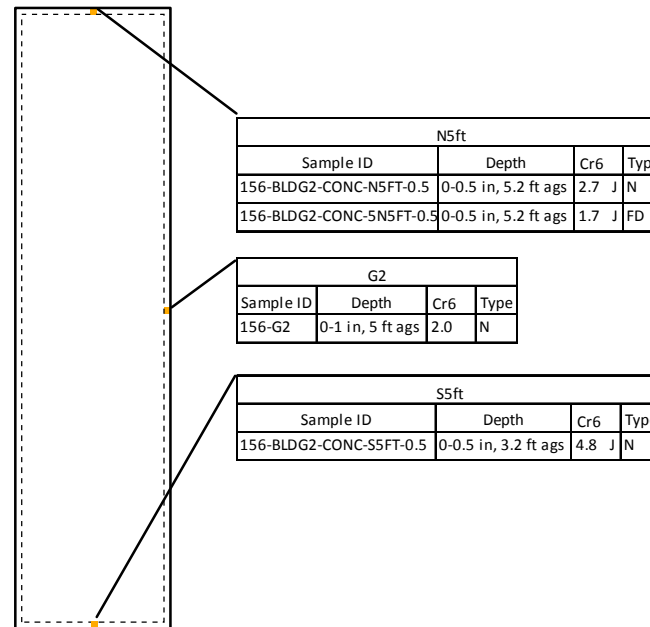
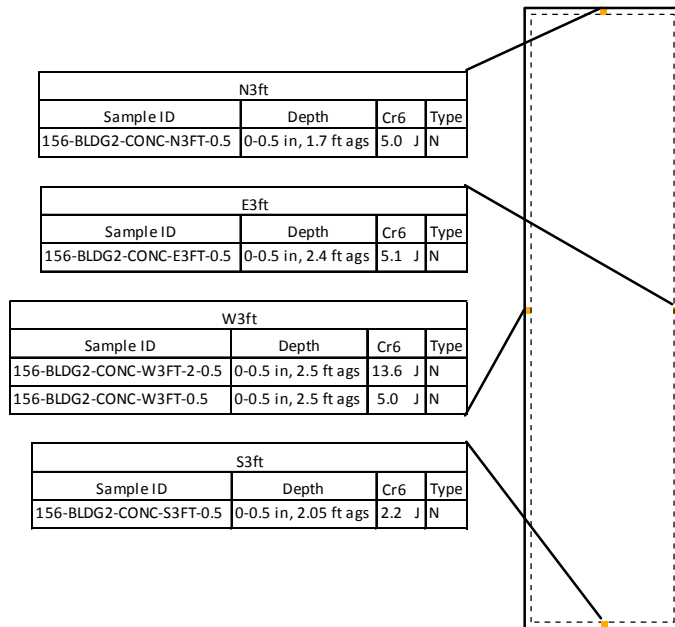
FIGURE 7

Plan View Cross-Sections of IRM Column

Hexavalent Chromium Results (mg/kg)

Lower Samples

Upper Samples



NOTES

Units: milligrams per kilogram (mg/kg)

Qualifiers: J-Estimated

Sample Types: N-Environmental Sample, FD-Field Duplicate

Other acronyms: Cr6-Hexavalent Chromium, ft-feet, in-inch, IRM-Interim Remedial Measure, ags-Above Ground Surface

Criteria: For Hexavalent Chromium (Cr6), the NJDEP Chromium Soil Cleanup Criteria (CrSCC) Has Been Used

1) Sample depths are measured from the top of the floor slab.

LEGEND

- Concrete Sample Location
- Outer Edge of IRM Column

LEGEND (Plan View)

- Column-IRM Location
- Boiler
- Drain



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Hexavalent Chromium Results for Concrete Samples Obtained Above the Column IRM, (Samples Collected: 2013)

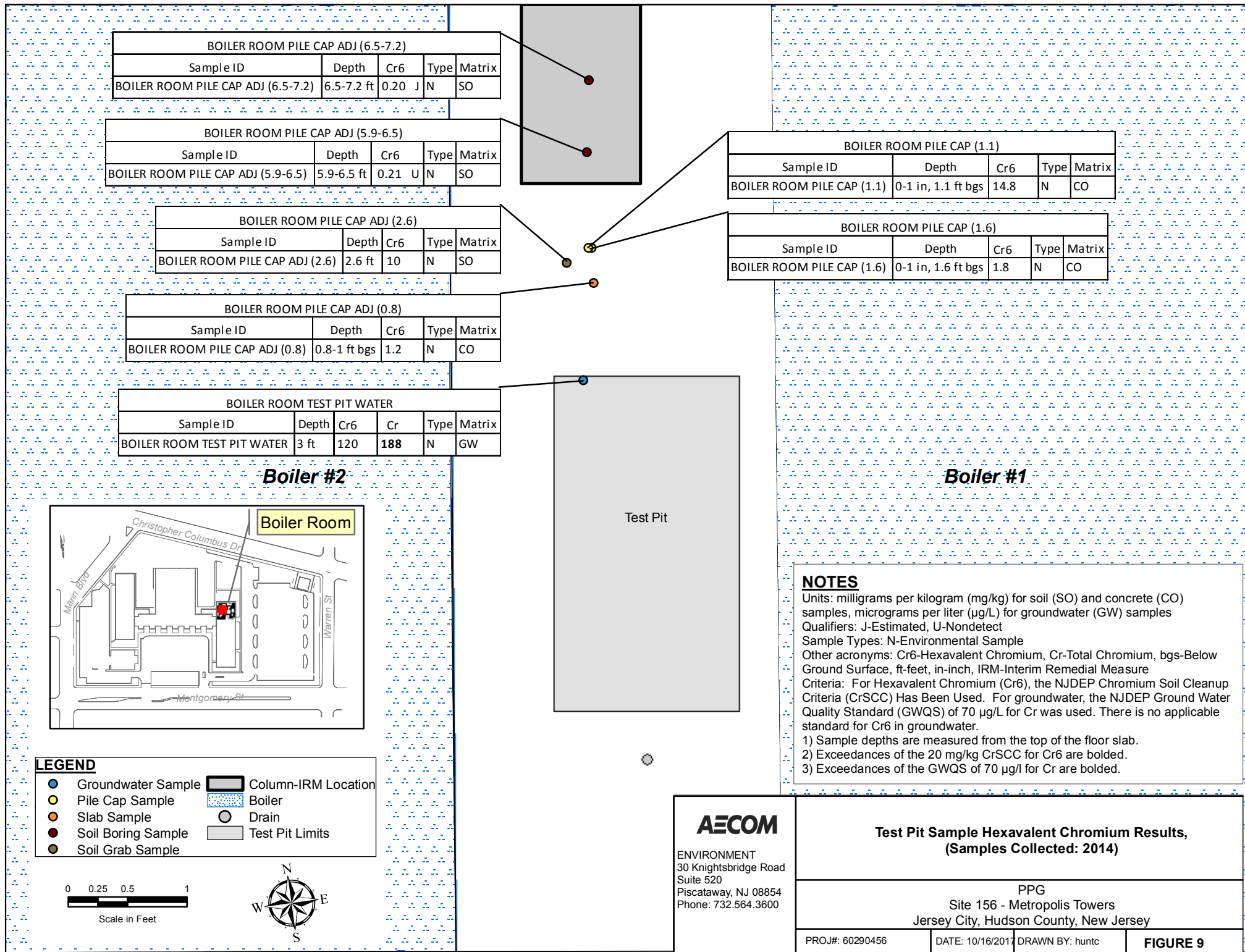
PPG
Site 156 - Metropolis Towers
Jersey City, Hudson County, New Jersey

PROJ#: 60290456

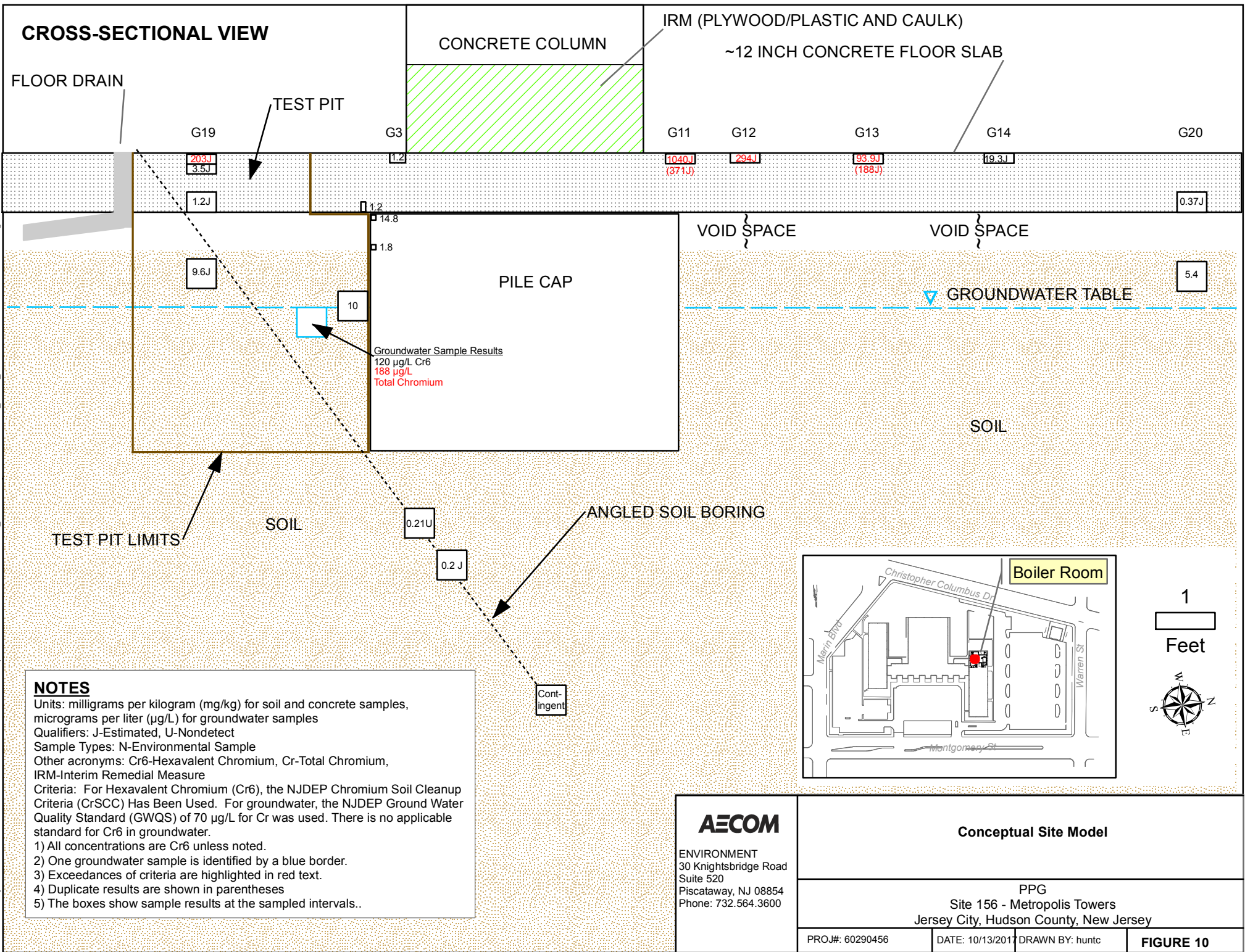
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FIGURE 8



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CROSS-SECTIONAL VIEW

FLOOR DRAIN

TEST PIT

CONCRETE COLUMN

IRM (PLYWOOD/PLASTIC AND CAULK)

~12 INCH CONCRETE FLOOR SLAB

G19

G3

G11

G12

G13

G14

G20

203J
3.5J

1.2J

1.2

1.2

14.8

1.8

1040J
(371J)

294J

193.9J
(188J)

19.3J

0.37J

9.6J

10

PILE CAP

VOID SPACE

VOID SPACE

GROUNDWATER TABLE

5.4

SOIL

SOIL

TEST PIT LIMITS

ANGLED SOIL BORING

0.21U

0.2J

Cont-ingent

NOTES

Units: milligrams per kilogram (mg/kg) for soil and concrete samples, micrograms per liter (µg/L) for groundwater samples

Qualifiers: J-Estimated, U-Nondetect

Sample Types: N-Environmental Sample

Other acronyms: Cr6-Hexavalent Chromium, Cr-Total Chromium,

IRM-Interim Remedial Measure

Criteria: For Hexavalent Chromium (Cr6), the NJDEP Chromium Soil Cleanup Criteria (CrSCC) Has Been Used. For groundwater, the NJDEP Ground Water Quality Standard (GWQS) of 70 µg/L for Cr was used. There is no applicable standard for Cr6 in groundwater.

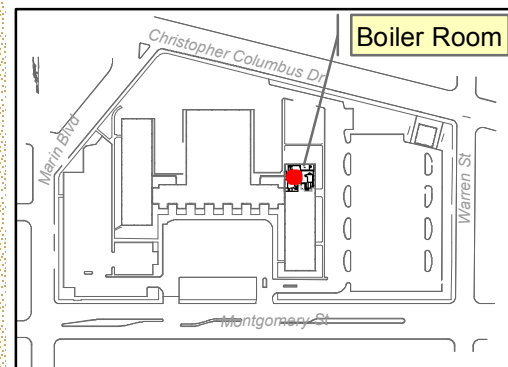
1) All concentrations are Cr6 unless noted.

2) One groundwater sample is identified by a blue border.

3) Exceedances of criteria are highlighted in red text.

4) Duplicate results are shown in parentheses

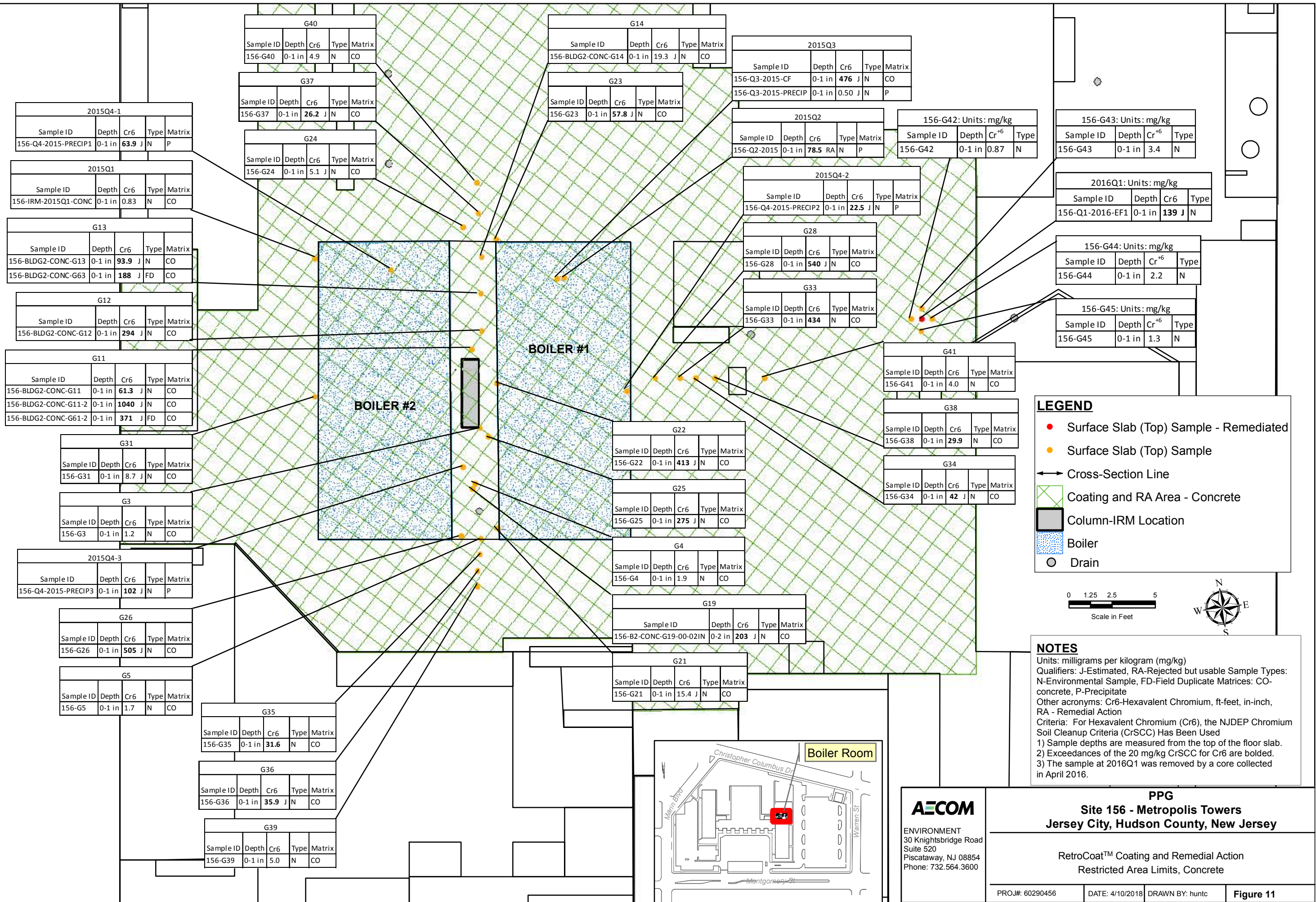
5) The boxes show sample results at the sampled intervals..



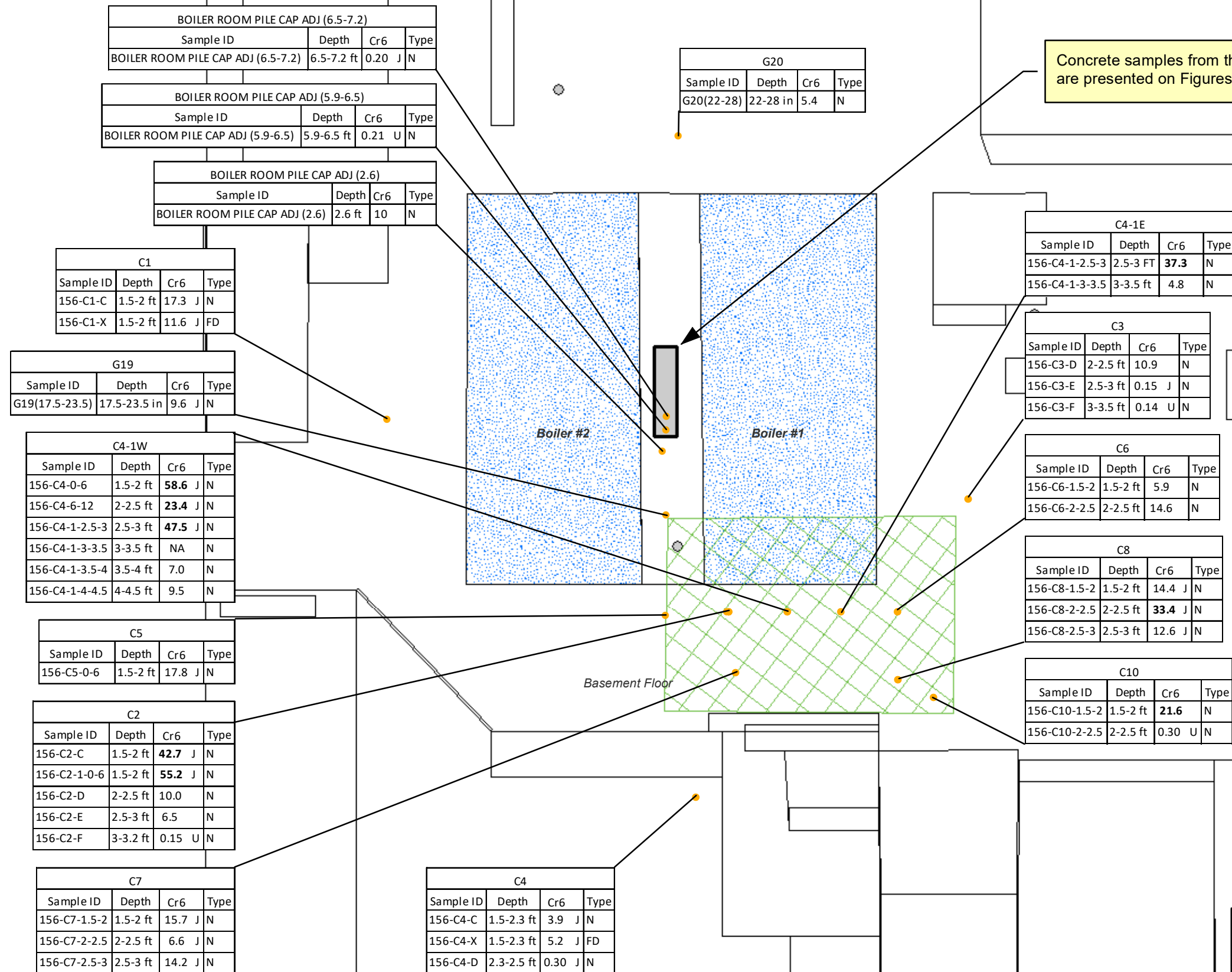
1
Feet



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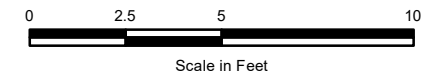
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Concrete samples from the IRM column are presented on Figures 7 and 8.

LEGEND

- Building #2 Soil Sample
- ▨ Remedial Action Extents - Soil
- ▬ Column-IRM Location
- ▨ Boiler
- Drain



NOTES
Units: milligrams per kilogram (mg/kg)
Qualifiers: J-Estimated, U-Nondetect
Sample Types: N-Environmental Sample, FD-Field Duplicate
Other acronyms: Cr6-Hexavalent Chromium, ft-feet, in-inch, NA-Not Available, IRM-Interim Remedial Measure
Criteria: For Hexavalent Chromium (Cr6), the NJDEP Chromium Soil Cleanup Criteria (CrSCC) Has Been Used
1) Sample depths are measured from the top of the floor slab.
2) Exceedances of the 20 mg/kg CrSCC for Cr6 are bolded.

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30 Knightsbridge Road
Suite 520
Piscataway, NJ 08854
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**Remedial Action Extents - Soil,
(Samples Collected: 2013 and 2014)**