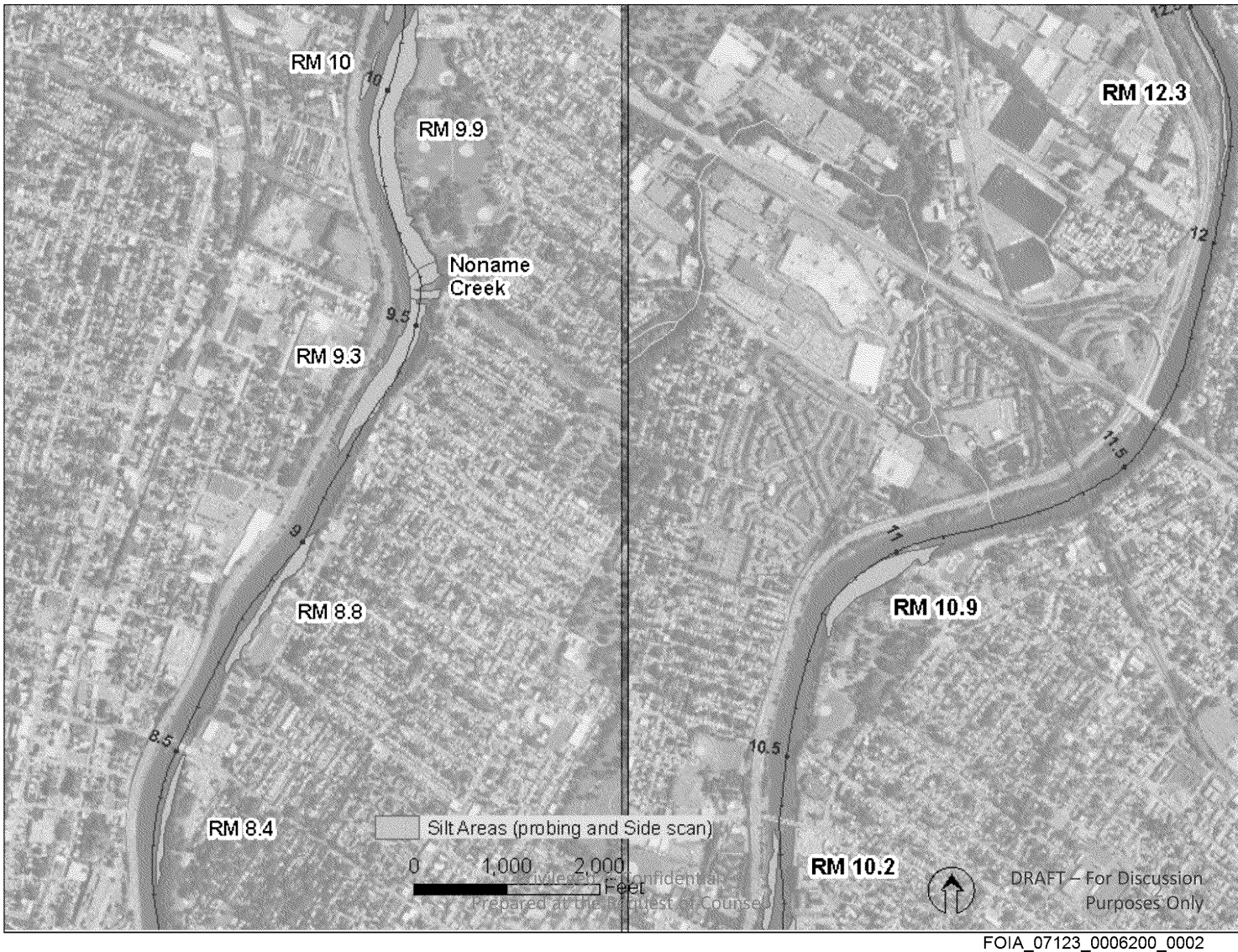
LPR Sediment Data Summary

October 5, 2012

FOIA_07123_0006200_0001


RM 10
10
RM 9.9
Noname
Creek
9.5
RM 9.3
9
RM 8.8
8.5
RM 8.4
Silt Areas (probing and Side scan)
0
1,000
2,000
Feet
Privileged/Confidential
Prepared at the Request of Counsel
RM 12.3
12
11.5
11
RM 10.9
10.5
RM 10.2
DRAFT – For Discussion
Purposes Only

Upriver Silt Areas

Name	Approximate Extent (RM)	Approximate Area (ac)[1]	Very Approximate Volume (cy)[2]	2,3,7,8-TCDD	Total PCBs		Mercury		Colocated[3]	# samples[4]	samples/ ac
				Surficial C > 1000 ppt (C, ppt)	Surficial C >10 ppm	Surficial C >5 ppm	Surficial C >10 ppm	Surficial C >5 ppm			
RM 8.4	8.3 - 8.5	2.1	9,000							3	1
RM 8.8	8.7 - 9.0	3.9	23,000			X		X	Yes	5	1
RM 9.3	9.2-9.6	7.2	29,000	X (1630)	X	X		X	Yes	4	1
Noname Creek	9.6	2	12,000	X (1830)						3	2
RM 9.9	9.6-10.1	15.7	140,000					X		4	<1
RM 10	10	0.6	2,000	No data							
RM 10.2	10.2 - 10.3	1.8	4,000	X (1860)						3	2
RM 12.3	12.1 - 12.5	2	7,000							4	2
RM 10.9[7]	10.8-11.1	7		X (6700)		X		X	Yes	4	1
RM 10.9[8]				X(29000)	X	X	X	X		73	10
RM 7.3[9]	1-1.5	16	85,000	X (34100)	X	X	X	X	Yes	8	1

Notes:

1 Silt area based on AquaSurveys intepretation of 2005 side-scan sonar survey

2 Sediment depth estimated from average of probing (MPI [2007] and AECOM [2008]) results

3 Indicates that highest observed concentrations for the 3 COPCs occurred at the same location

4 Includes number of LRC, Benthic, and SSP samples within the deposit

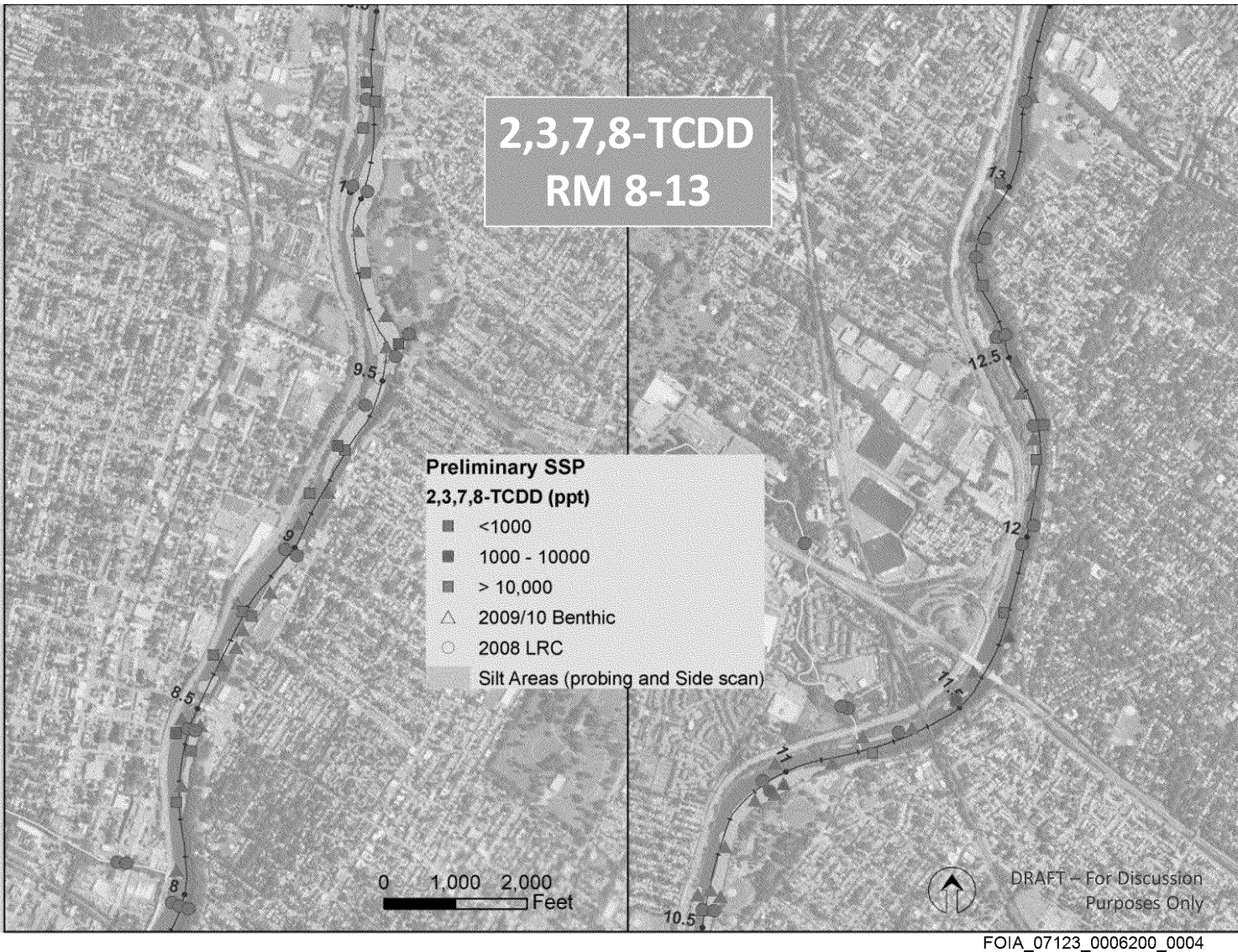
5 Indicates the maximum COPC concentration and mid-depth (ft) of the horizon in which it occurred

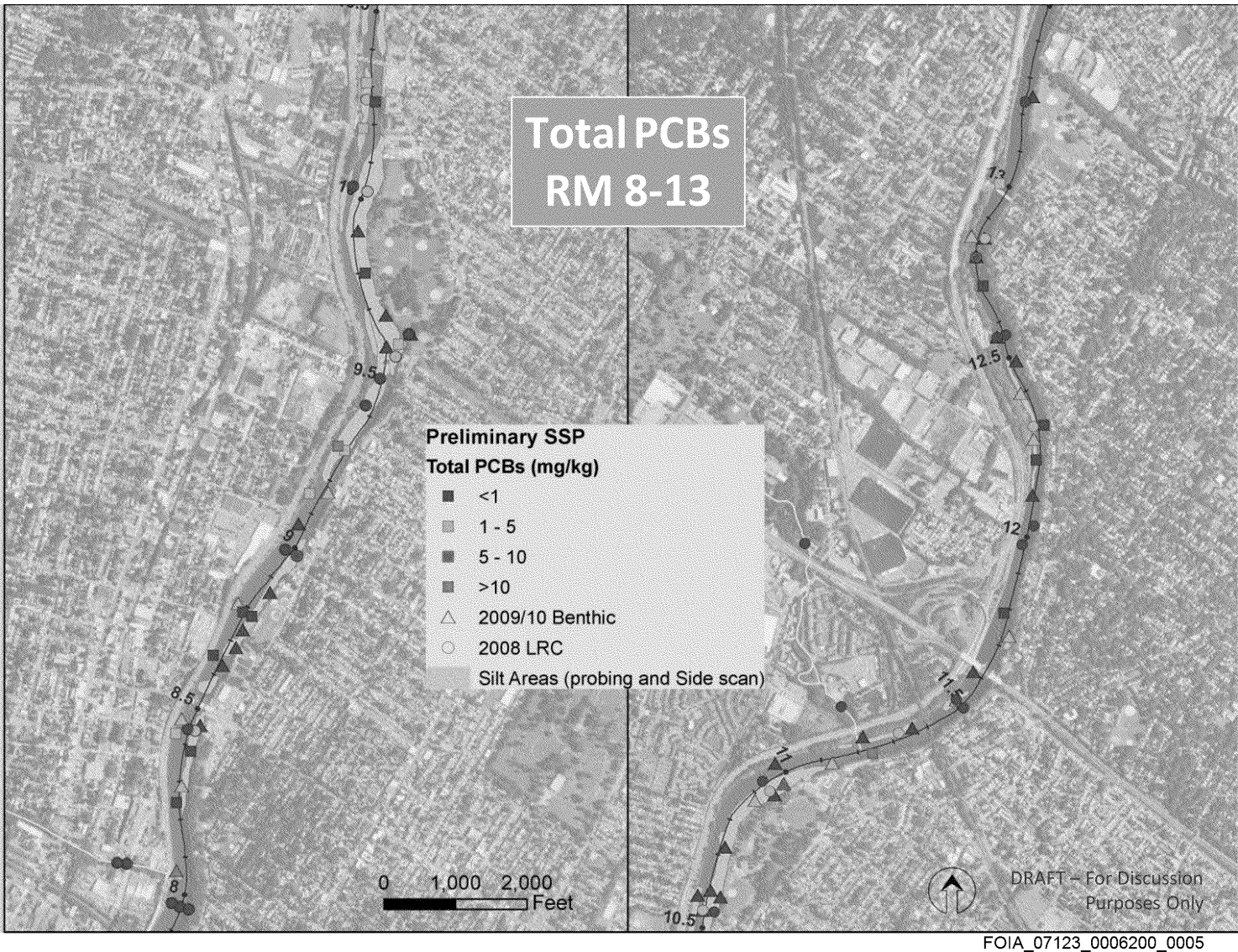
6 Indicates mid-depth (ft) of the sediment horizon in which the Cs-137 peak occurred in the LRC core(s) within the deposit

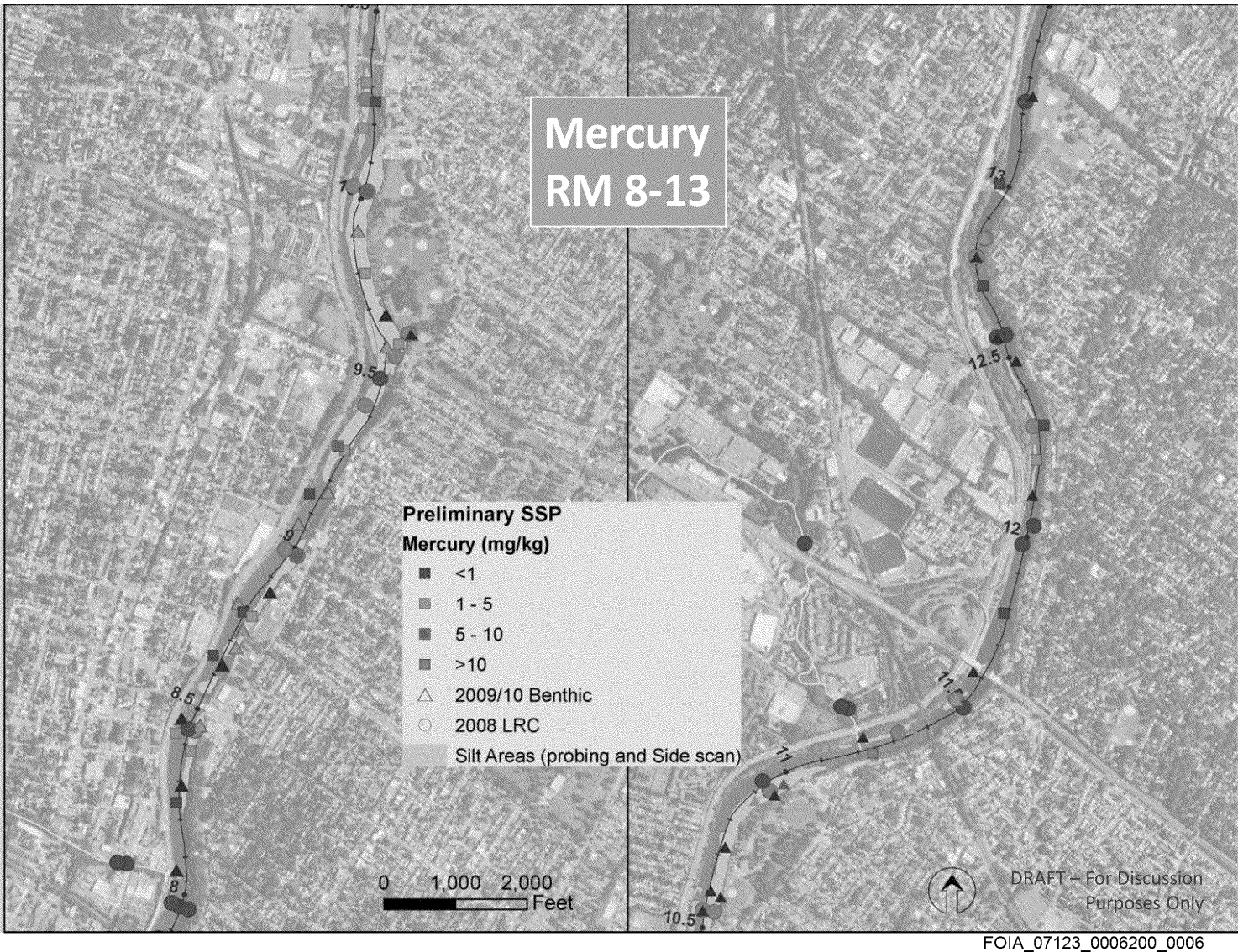
7 RM 10.9 data (excluding the RM 10.9 Characterization Program data) provided for comparison

8 RM 10.9 including LRC, Benthic, RM 10.9, and Add. A data

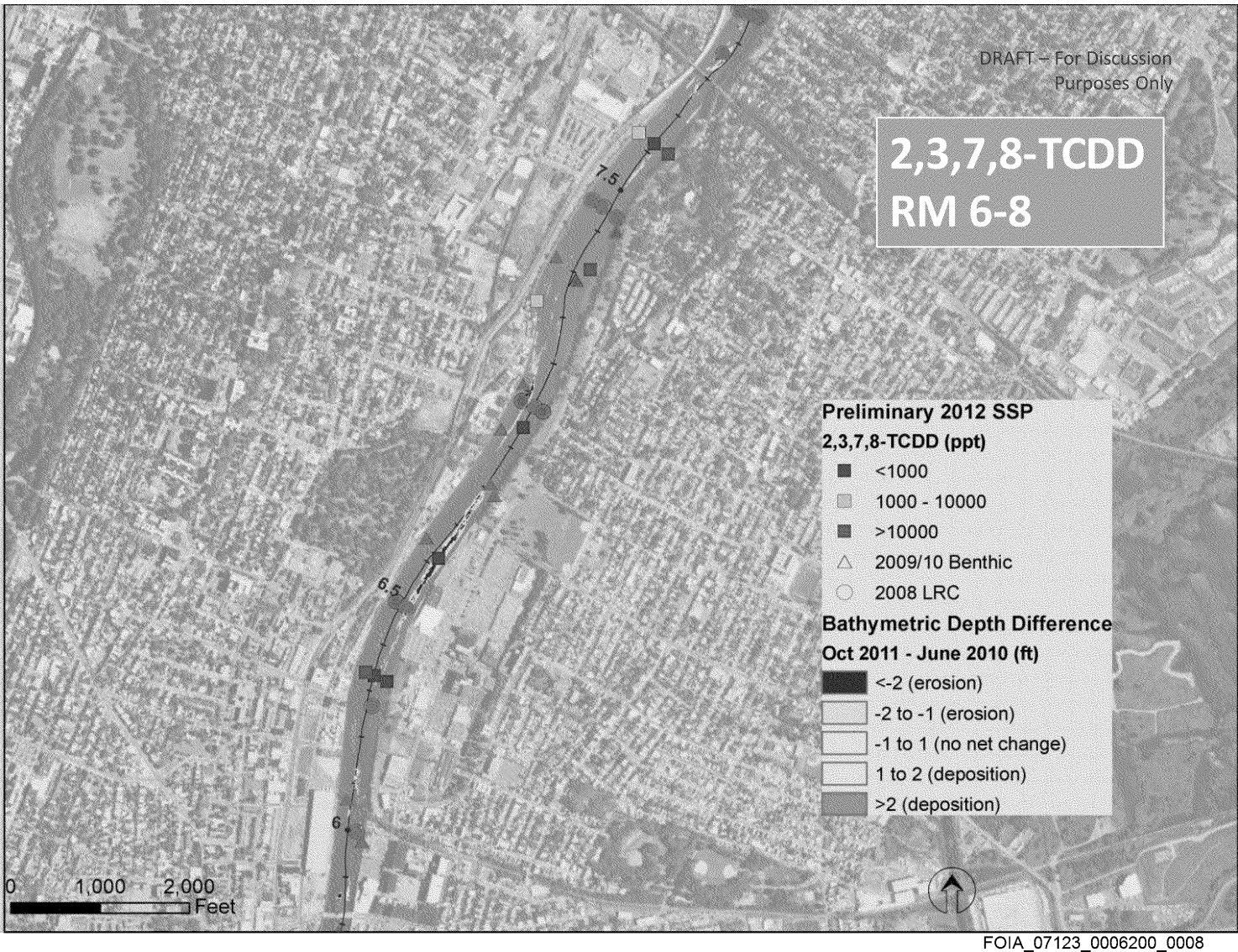
9 Area delineated by Navigation Channel and Riverbank


2,3,7,8-TCDD
RM 8-13
Preliminary SSP
2,3,7,8-TCDD (ppt)
<1000
1000 - 10000
> 10,000
2009/10 Benthic
2008 LRC
Silt Areas (probing and Side scan)
0 1,000 2,000
Feet
DRAFT – For Discussion
Purposes Only
8
8.5
9
9.5
10
10.5
11
11.5
12
12.5
13


Total PCBs
RM 8-13
Preliminary SSP
Total PCBs (mg/kg)
<1
1 - 5
5 - 10
>10
2009/10 Benthic
2008 LRC
Silt Areas (probing and Side scan)
0 1,000 2,000
Feet
DRAFT – For Discussion
Purposes Only
10
9.5
9
8.5
8
13
12.5
12
11.5
11
10.5


Mercury
RM 8-13
Preliminary SSP
Mercury (mg/kg)
<1
1 - 5
5 - 10
>10
2009/10 Benthic
2008 LRC
Silt Areas (probing and Side scan)
0 1,000 2,000
Feet
DRAFT – For Discussion
Purposes Only
8
8.5
9
9.5
10.5
11
11.5
12
12.5
13

DRAFT – For Discussion Purposes Only
2,3,7,8-TCDD
RM 6-8
7.5
6.5
6
Preliminary 2012 SSP
2,3,7,8-TCDD (ppt)
<1000
1000 - 10000
>10000
2009/10 Benthic
2008 LRC
Silt Areas (probing and Side scan)
0
1,000
2,000
Feet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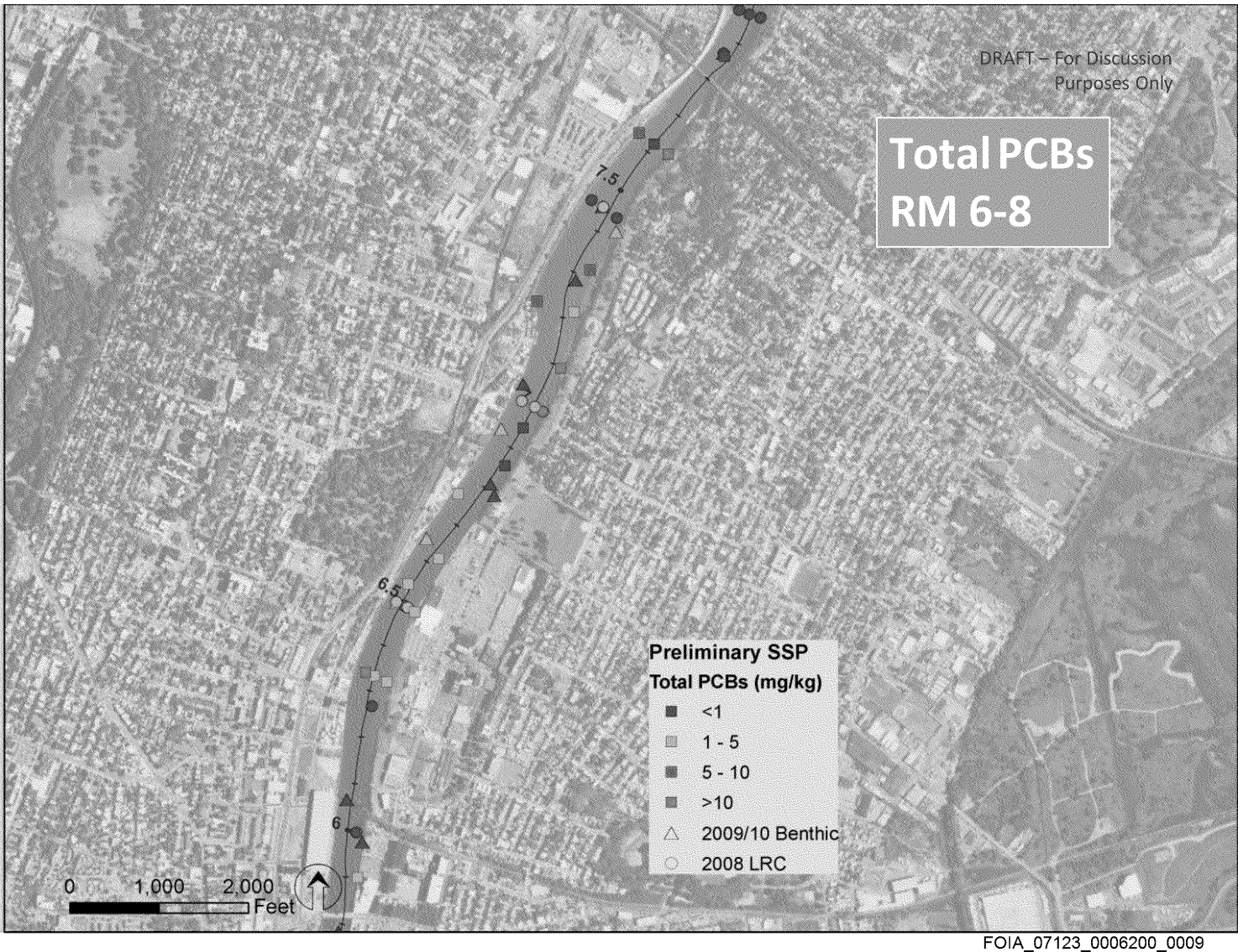
2,3,7,8-TCDD
RM 6-8
Preliminary 2012 SSP
2,3,7,8-TCDD (ppt)
<1000
1000 - 10000
>10000
2009/10 Benthic
2008 LRC
Bathymetric Depth Difference
Oct 2011 - June 2010 (ft)
<-2 (erosion)
-2 to -1 (erosion)
-1 to 1 (no net change)
1 to 2 (deposition)
>2 (deposition)
7.5
6.5
6
0
1,000
2,000
Feet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RM 6-8
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6.5
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2009/10 Benthic
2008 LRC
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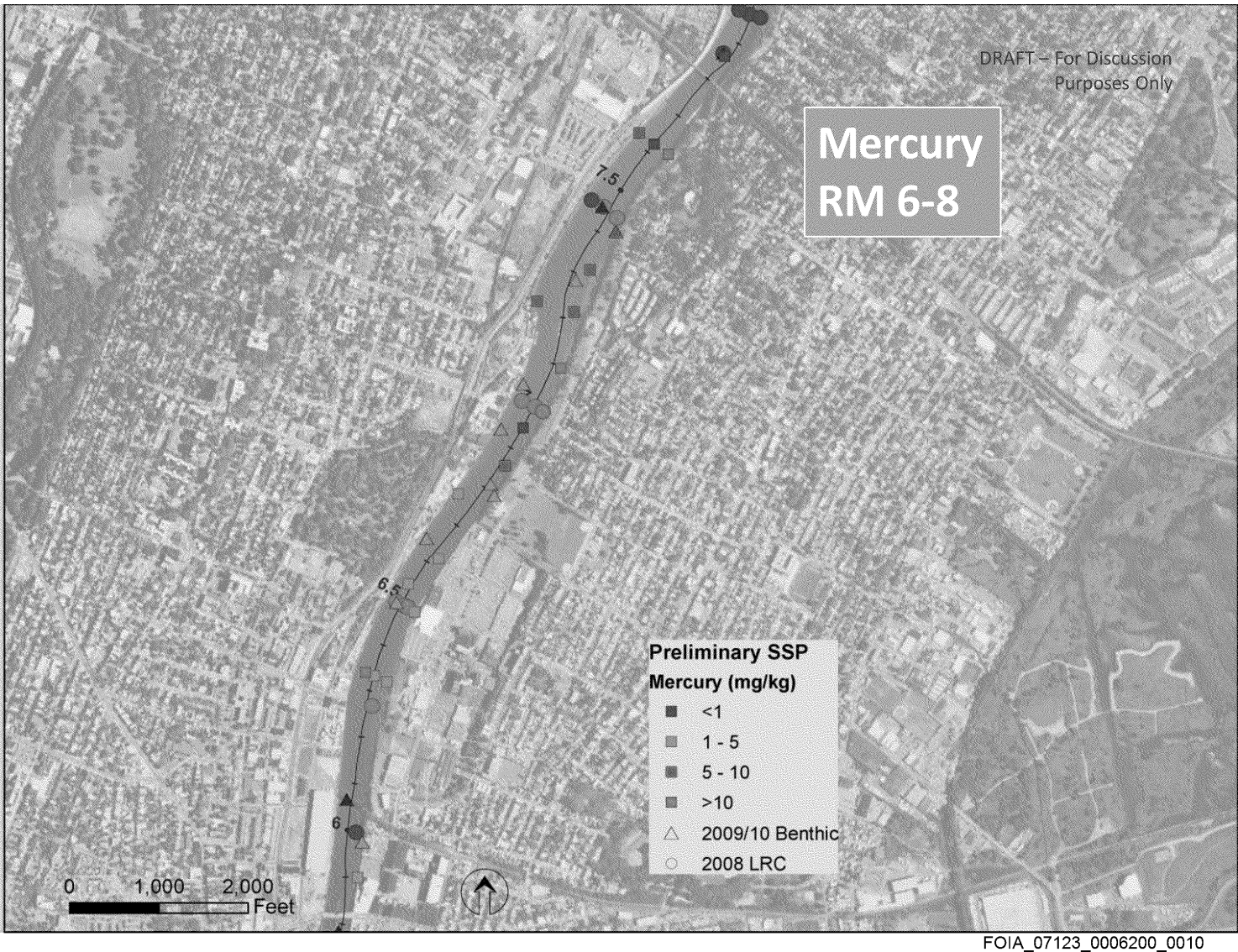
1,000
2,000
Feet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Mercury RM 6-8
7.5
6.5
6
Preliminary SSP
Mercury (mg/kg)
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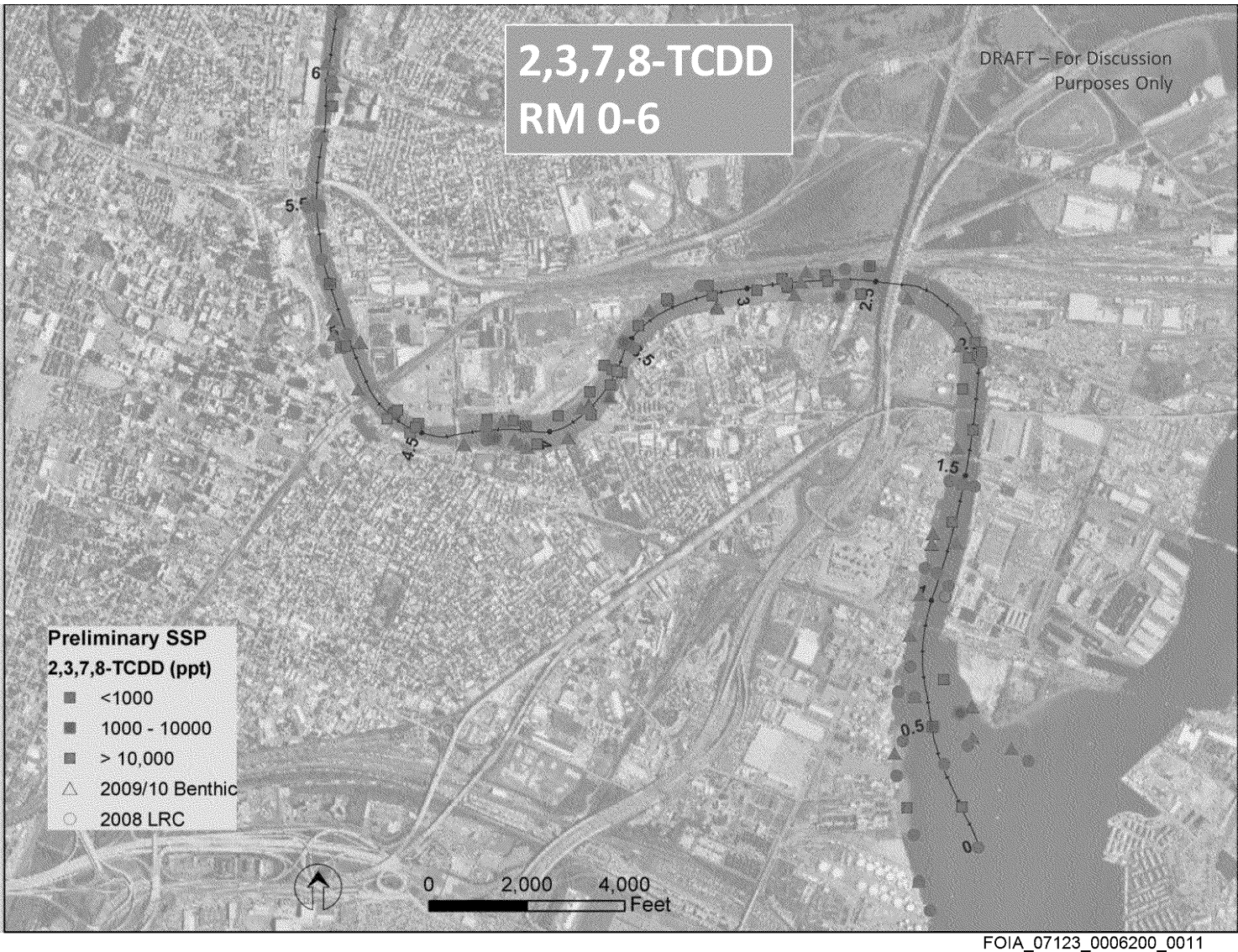
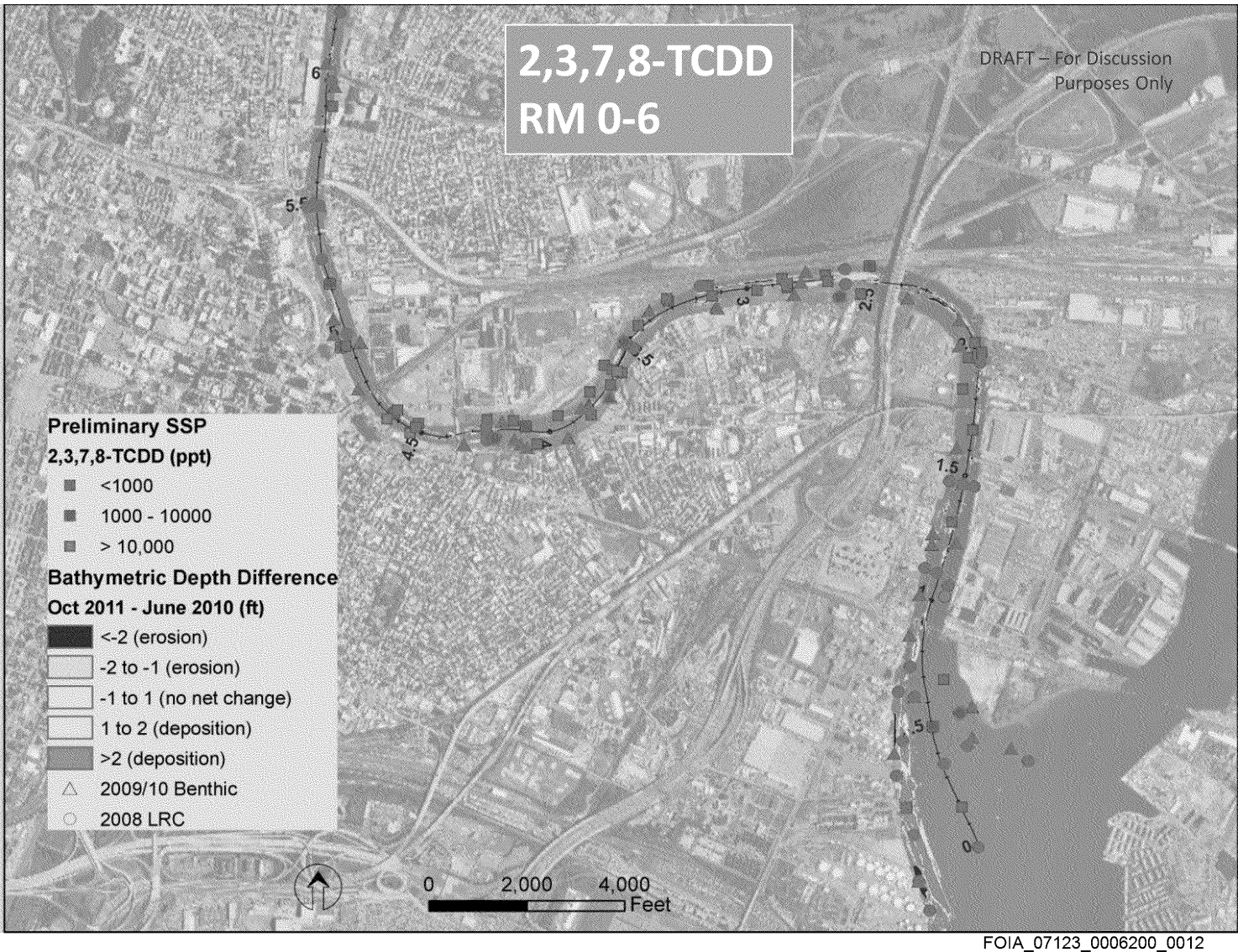
1 - 5
5 - 10
>10
2009/10 Benthic
2008 LRC
0
1,000
2,000
Feet


2,3,7,8-TCDD
RM 0-6
DRAFT – For Discussion Purposes Only
Preliminary SSP
2,3,7,8-TCDD (ppt)
<1000
1000 - 10000
> 10,000
2009/10 Benthic
2008 LRC
0
2,000
4,000
Feet


2,3,7,8-TCDD
RM 0-6
DRAFT – For Discussion Purposes Only
Preliminary SSP
2,3,7,8-TCDD (ppt)
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1 to 2 (deposition)
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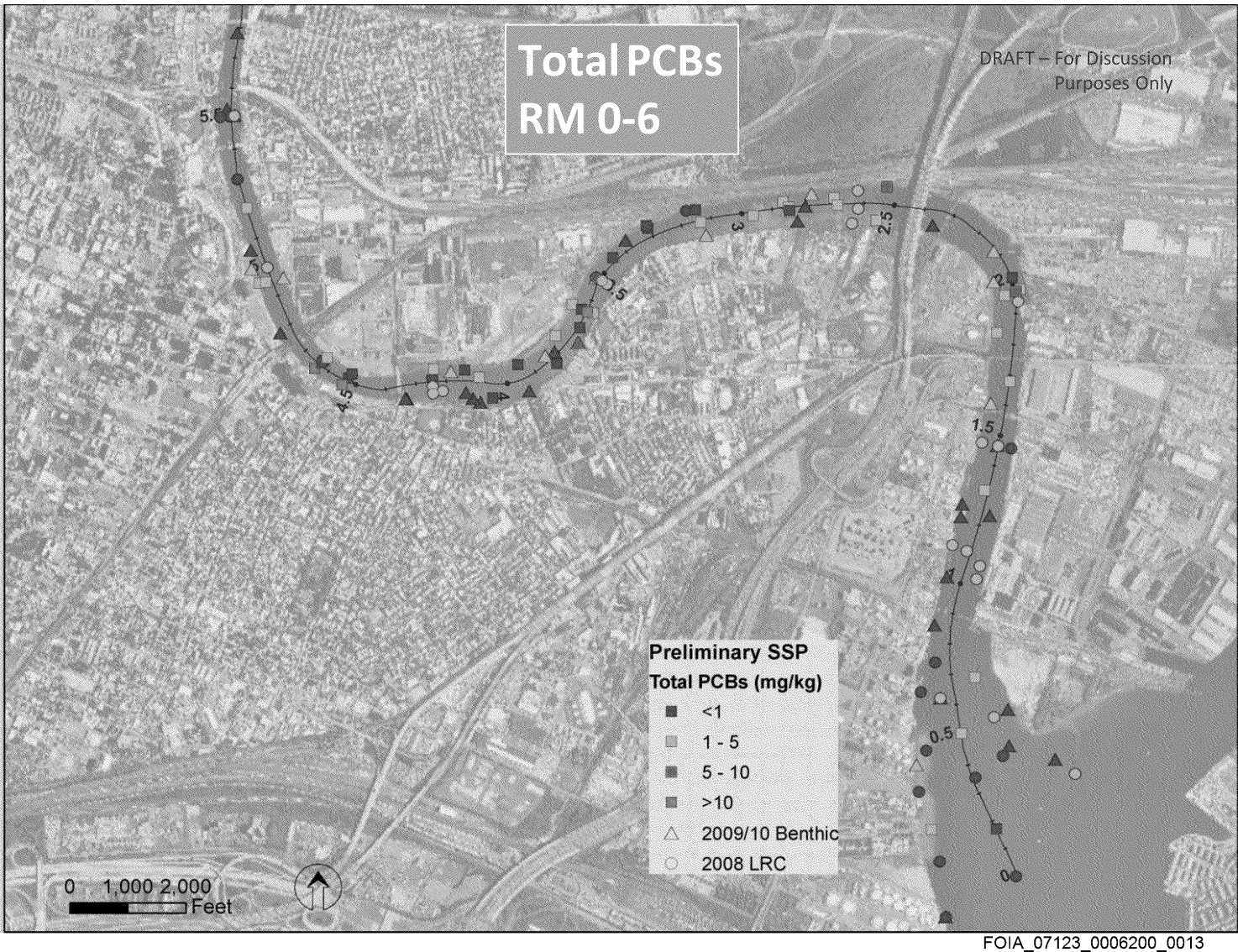
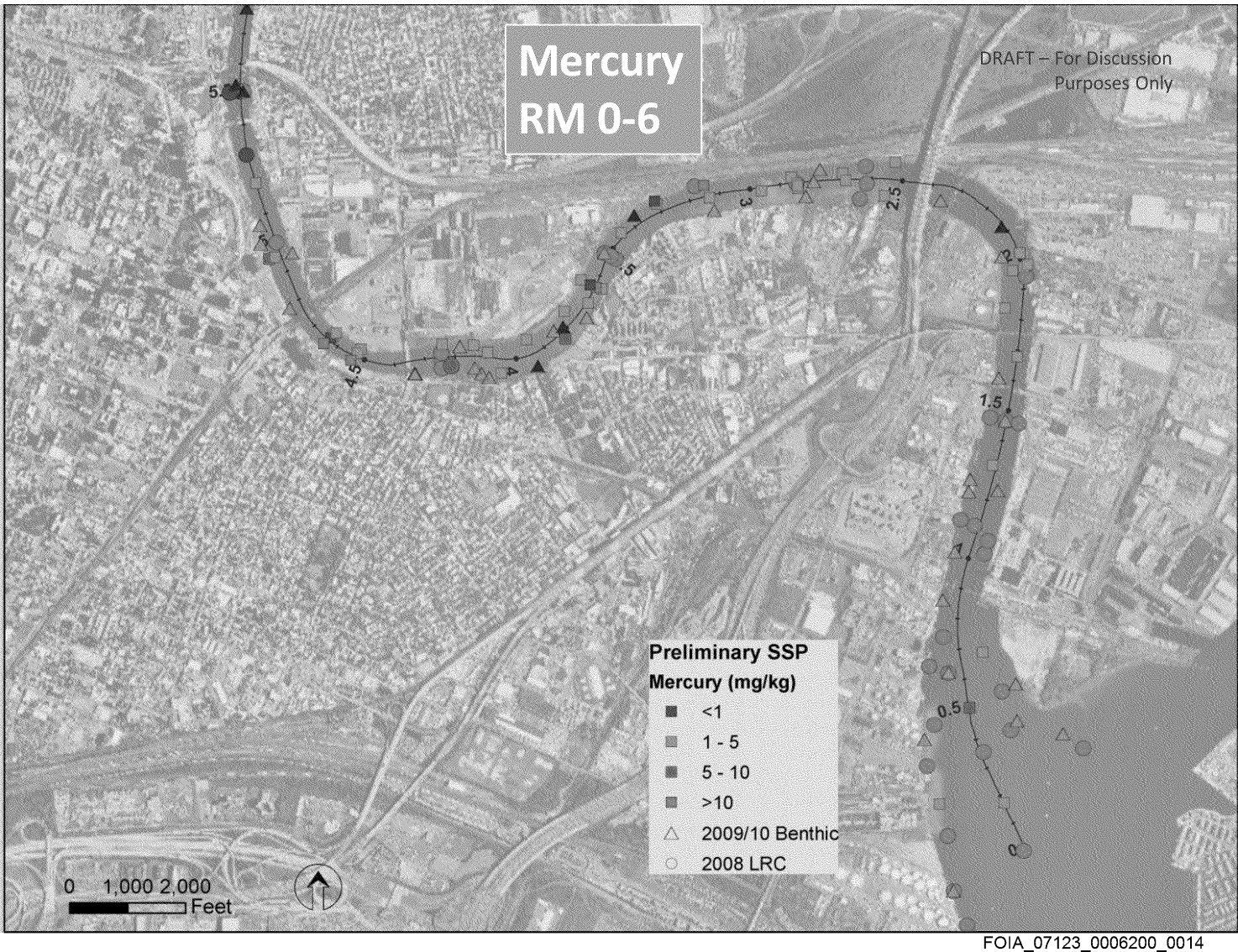
2009/10 Benthic
2008 LRC
0
2,000
4,000
Feet


Total PCBs
RM 0-6
DRAFT – For Discussion
Purposes Only
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Preliminary SSP
Total PCBs (mg/kg)
<1
1 - 5
5 - 10
>10
2009/10 Benthic
2008 LRC
0 1,000 2,000
Feet


Mercury
RM 0-6
DRAFT – For Discussion
Purposes Only
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
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Feet