

Cedar River Hatchery Mark Characteristic Report



Prepared for:
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Seattle Public Utilities
Seattle, WA

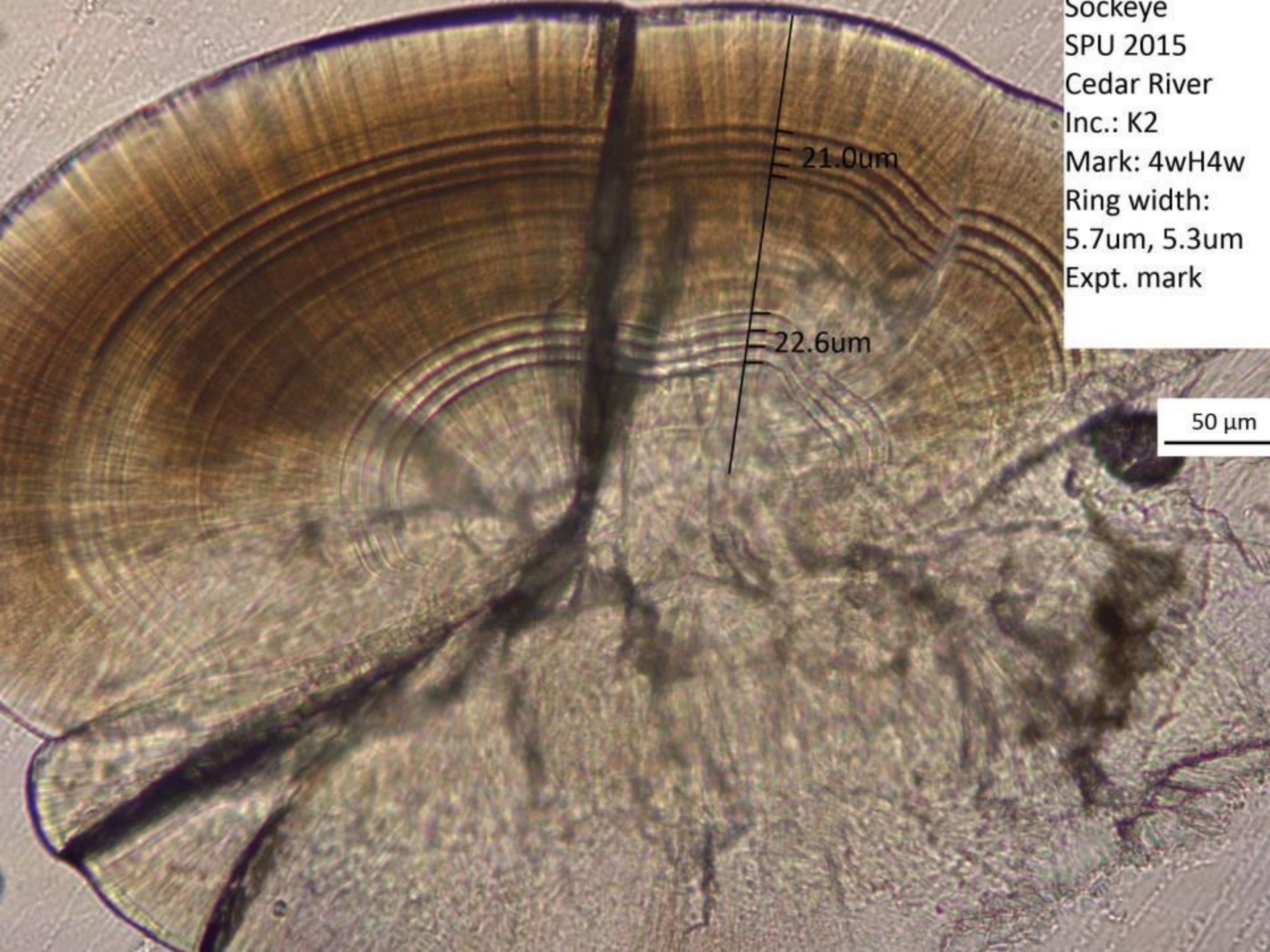
Prepared by:
Sagilith
Michael Wunderlich

May 2016

- Agency: Seattle Public Utilities
- Facility: Cedar River Hatchery
- Brood Year: 2015
- Species: Sockeye
- Thermal Mark Characteristics:

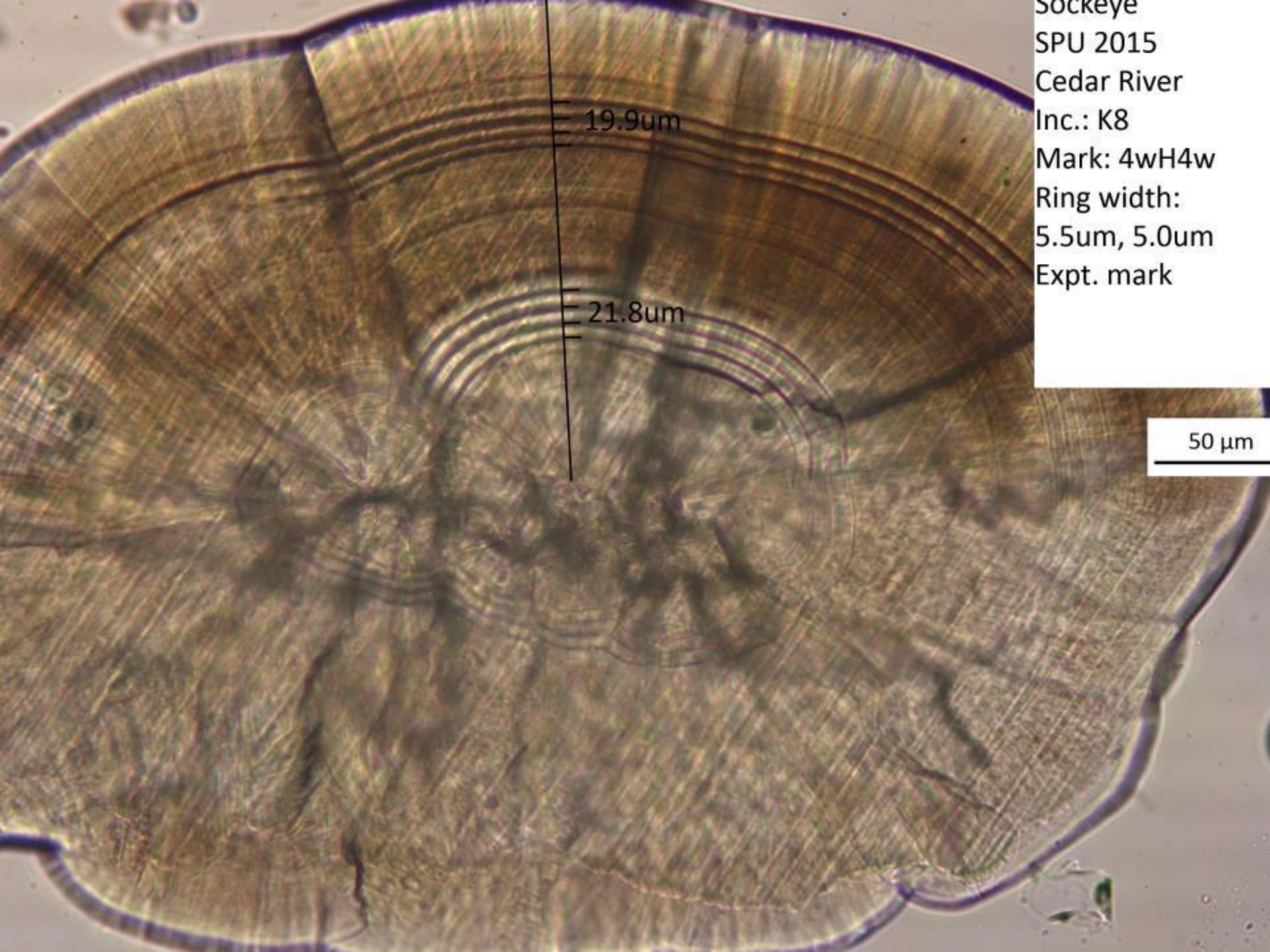
Early Release - Expt. Mark																							
4wH4w																							
24	24	24	24	24	24	24	24	24	24	24	HATCH	24	24	24	24	24	24	24	24	24	24	24	24
							48hr												72hr				

[illegible][illegible]



Sockeye
SPU 2015
Cedar River
Inc.: K2
Mark: 4wH4w
Ring width:
5.7μm, 5.3μm
Expt. mark

50 μm

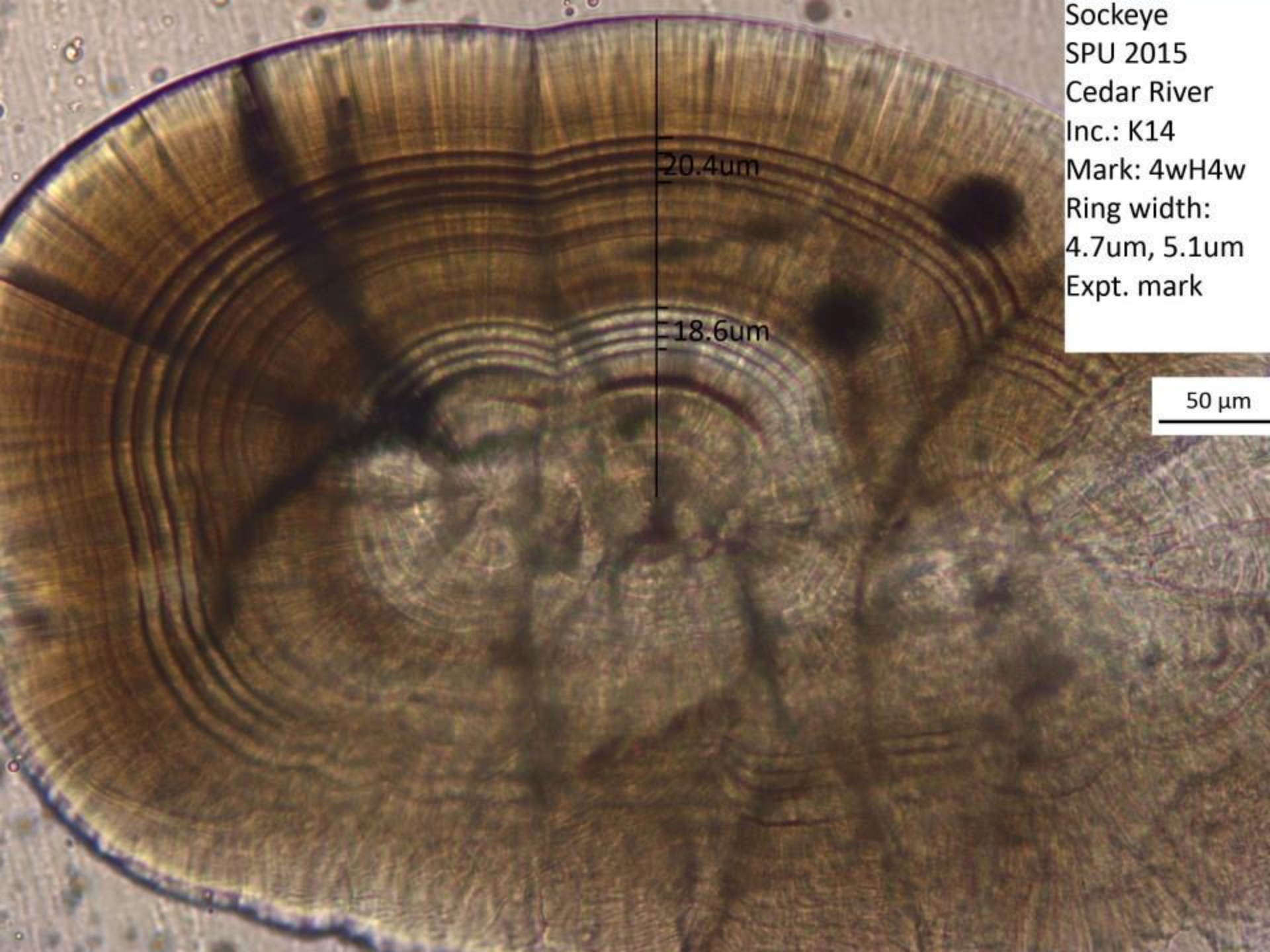


19.9um

21.8um

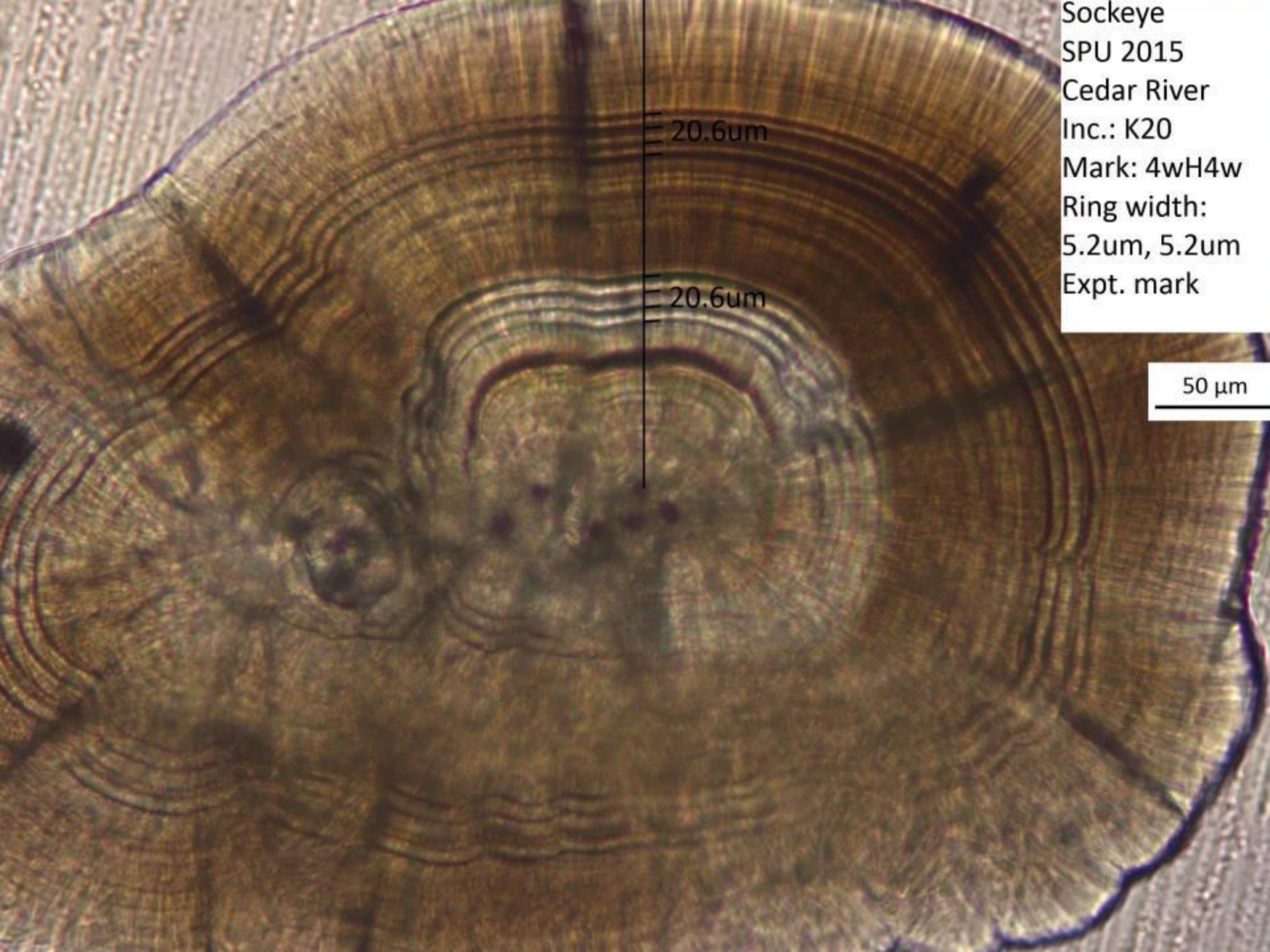
50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K8
Mark: 4wH4w
Ring width:
5.5um, 5.0um
Expt. mark



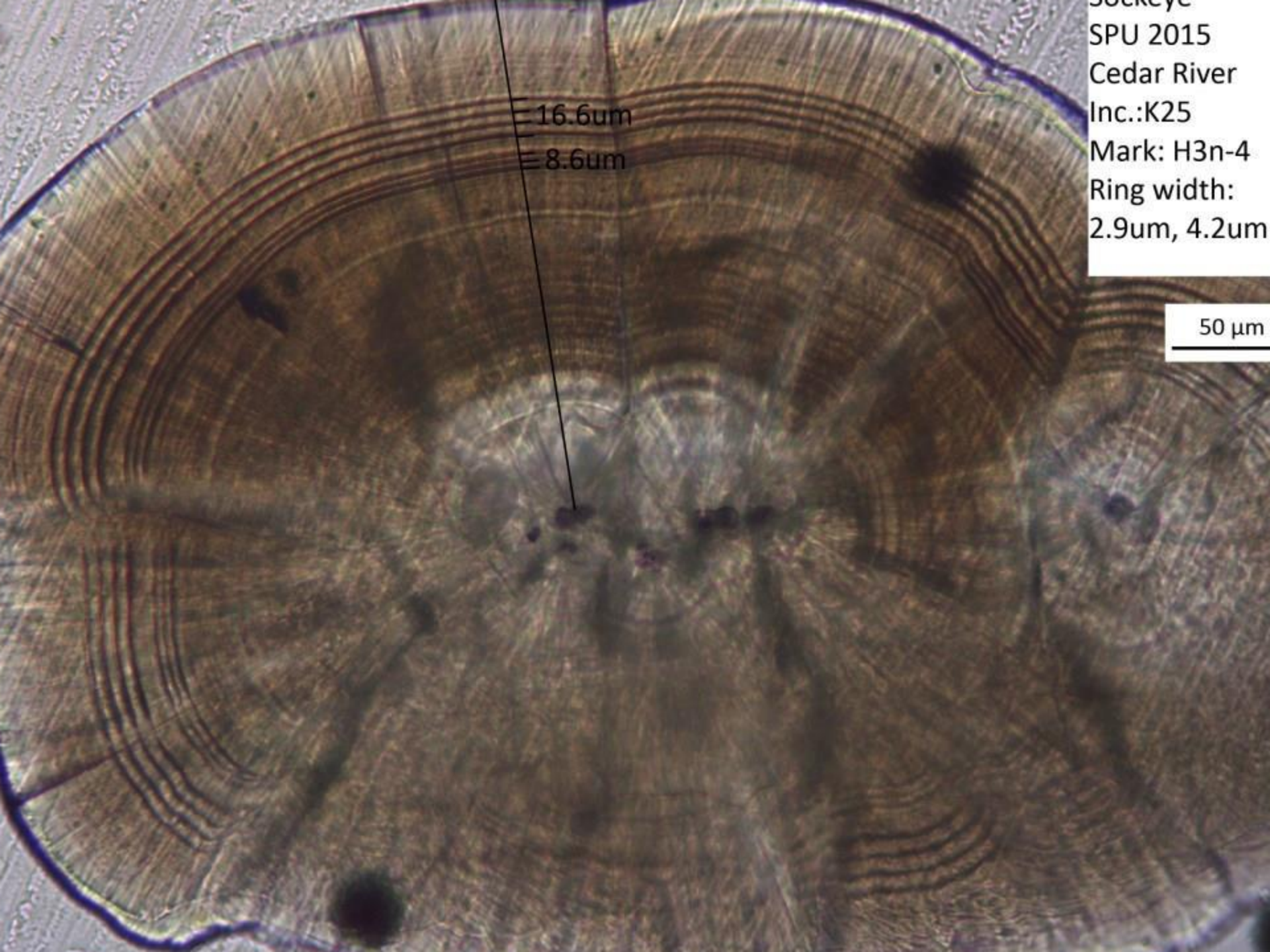
Sockeye
SPU 2015
Cedar River
Inc.: K14
Mark: 4wH4w
Ring width:
4.7μm, 5.1μm
Expt. mark

50 μm



Sockeye
SPU 2015
Cedar River
Inc.: K20
Mark: 4wH4w
Ring width:
5.2um, 5.2um
Expt. mark

50 μm



16.6um
8.6um

Sockeye
SPU 2015
Cedar River
Inc.:K25
Mark: H3n-4
Ring width:
2.9um, 4.2um

50 μ m

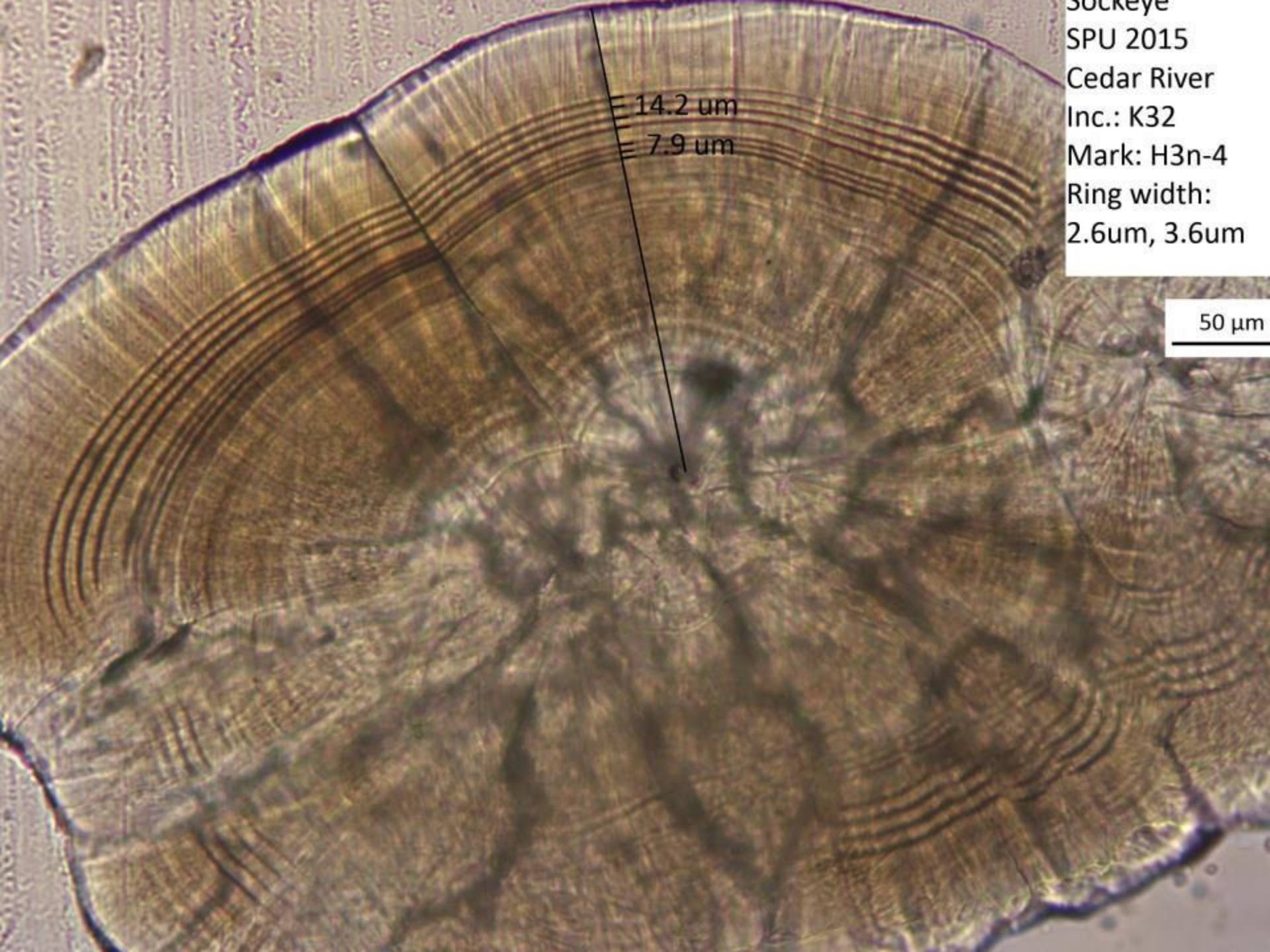


16.2um

8.5um

Socket
SPU 2015
Cedar River
Inc.: K26
Mark: H3n-4
Ring width:
2.8um, 4.1um

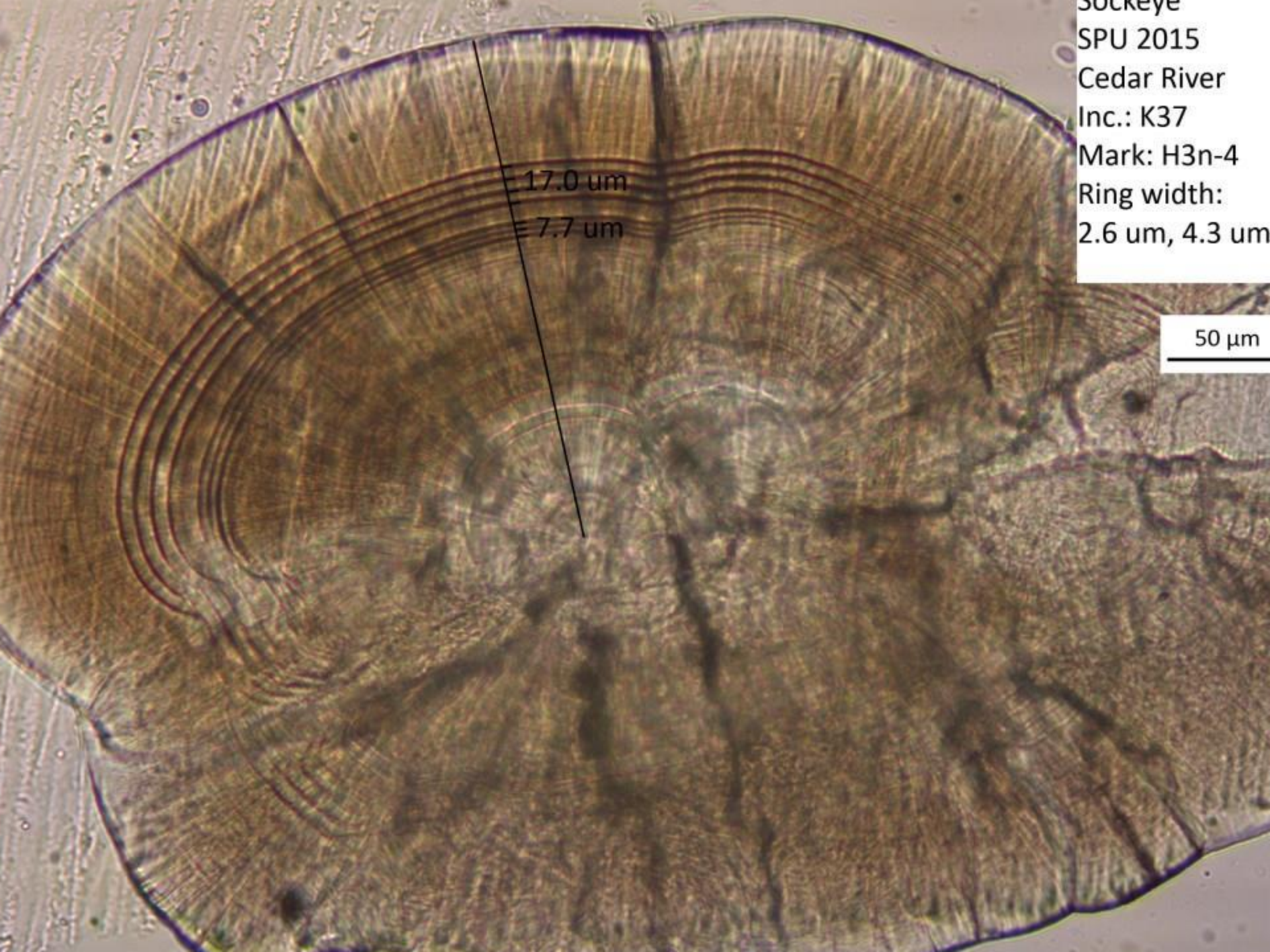
50 μm



Sockeye
SPU 2015
Cedar River
Inc.: K32
Mark: H3n-4
Ring width:
2.6μm, 3.6μm

50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K37
Mark: H3n-4
Ring width:
2.6 um, 4.3 um



50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K38
Mark: H3n-4
Ring width:
2.8 μm , 4.2 μm

16.6 μm

8.4 μm

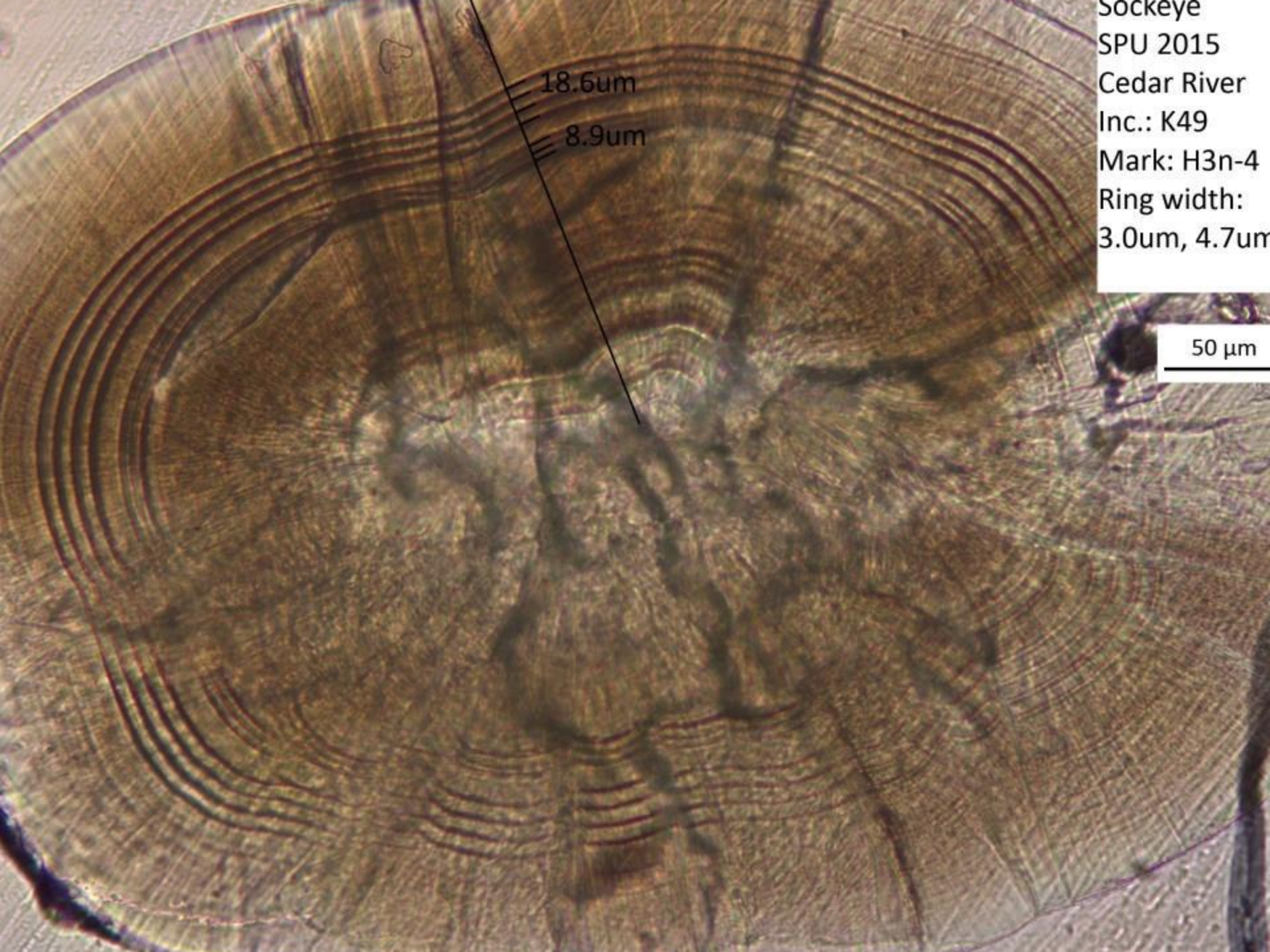
50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K44
Mark: H3n-4
Ring width:
2.9um, 4.7um

18.8 um

8.6 um

50 μm

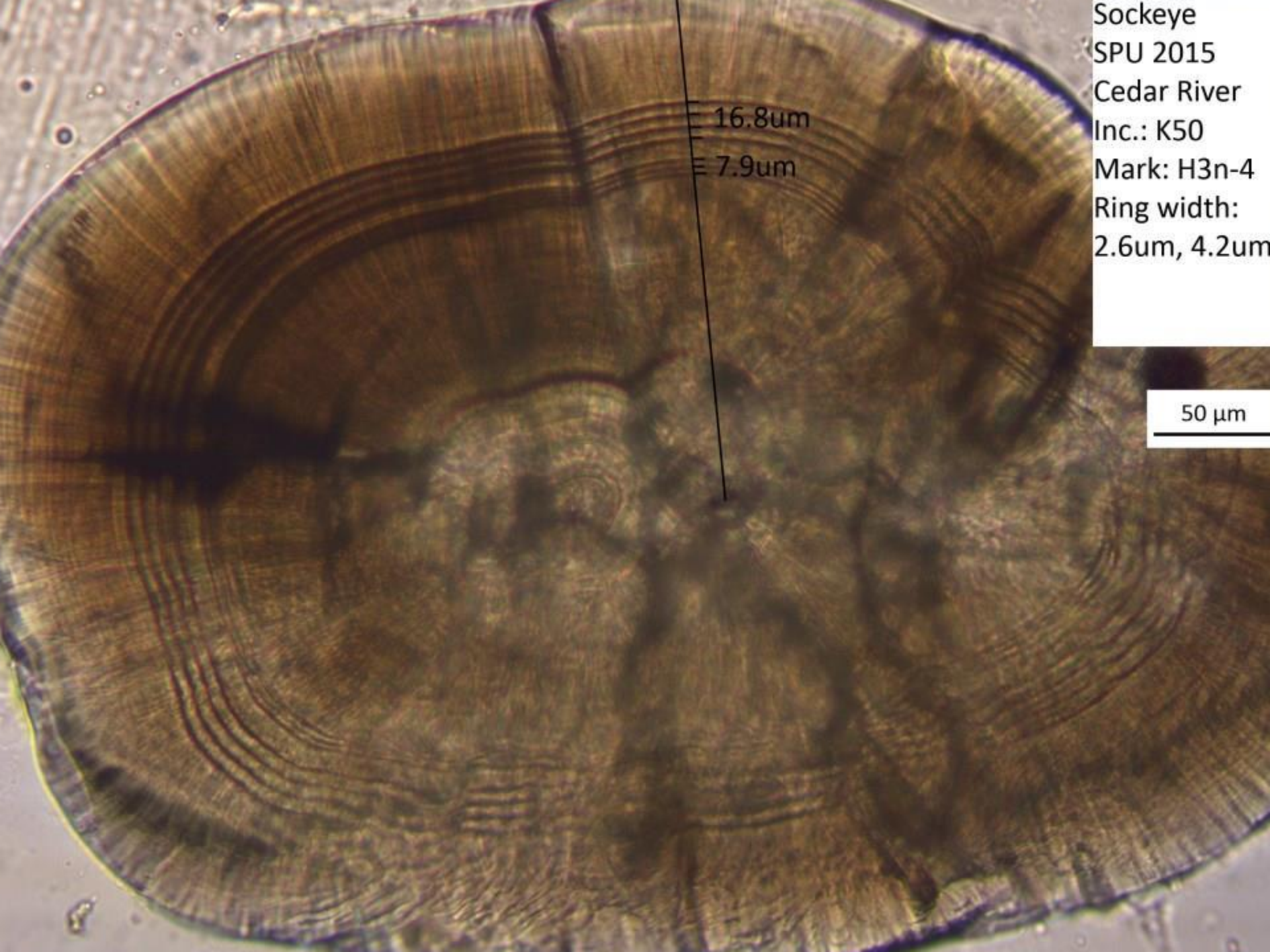


18.6μm

8.9μm

50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K49
Mark: H3n-4
Ring width:
3.0μm, 4.7μm



Sockeye
SPU 2015
Cedar River
Inc.: K50
Mark: H3n-4
Ring width:
2.6um, 4.2um

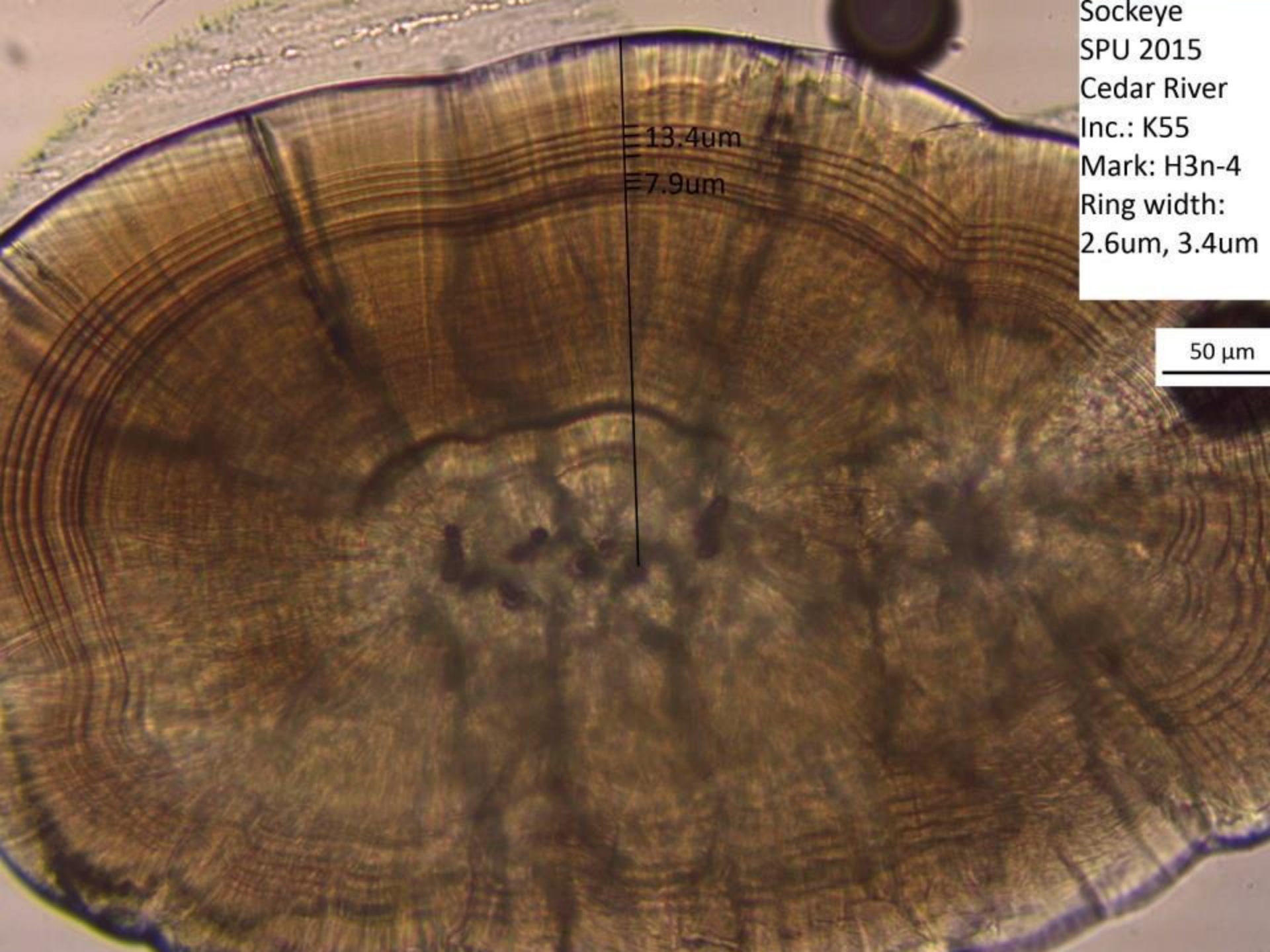
50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K55
Mark: H3n-4
Ring width:
2.6um, 3.4um

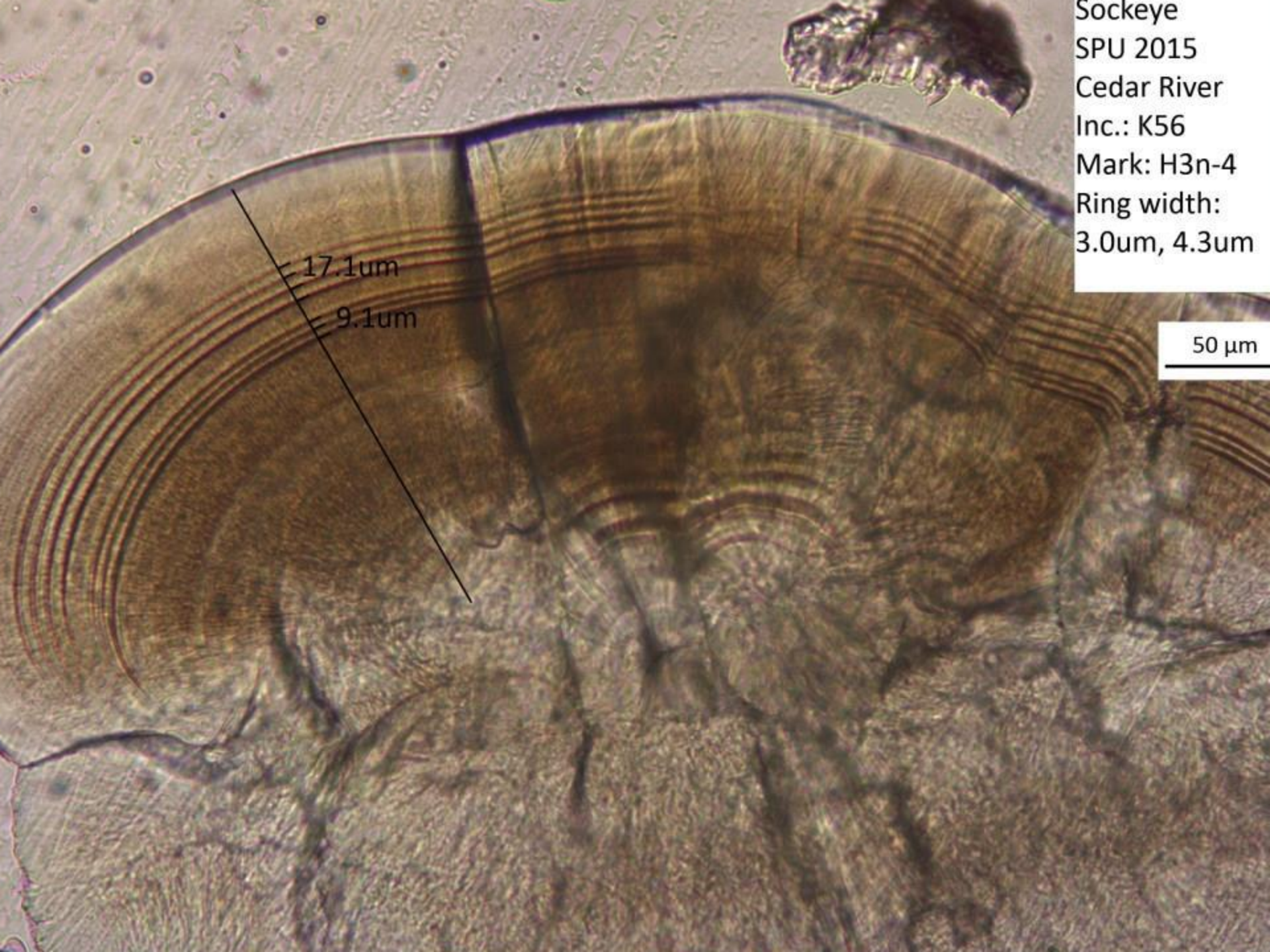
13.4um

7.9um

50 μ m



Sockeye
SPU 2015
Cedar River
Inc.: K56
Mark: H3n-4
Ring width:
3.0um, 4.3um



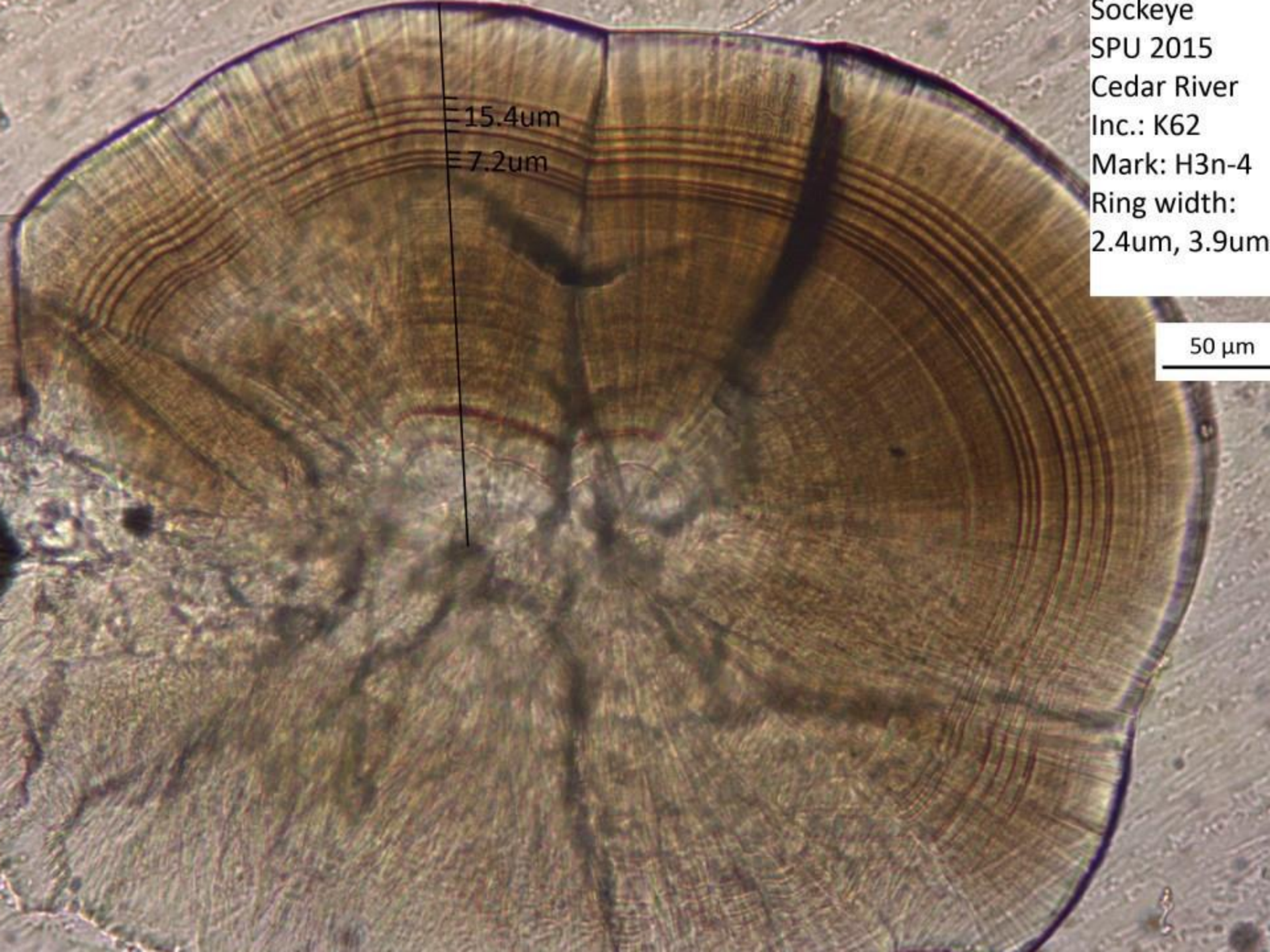
50 μ m

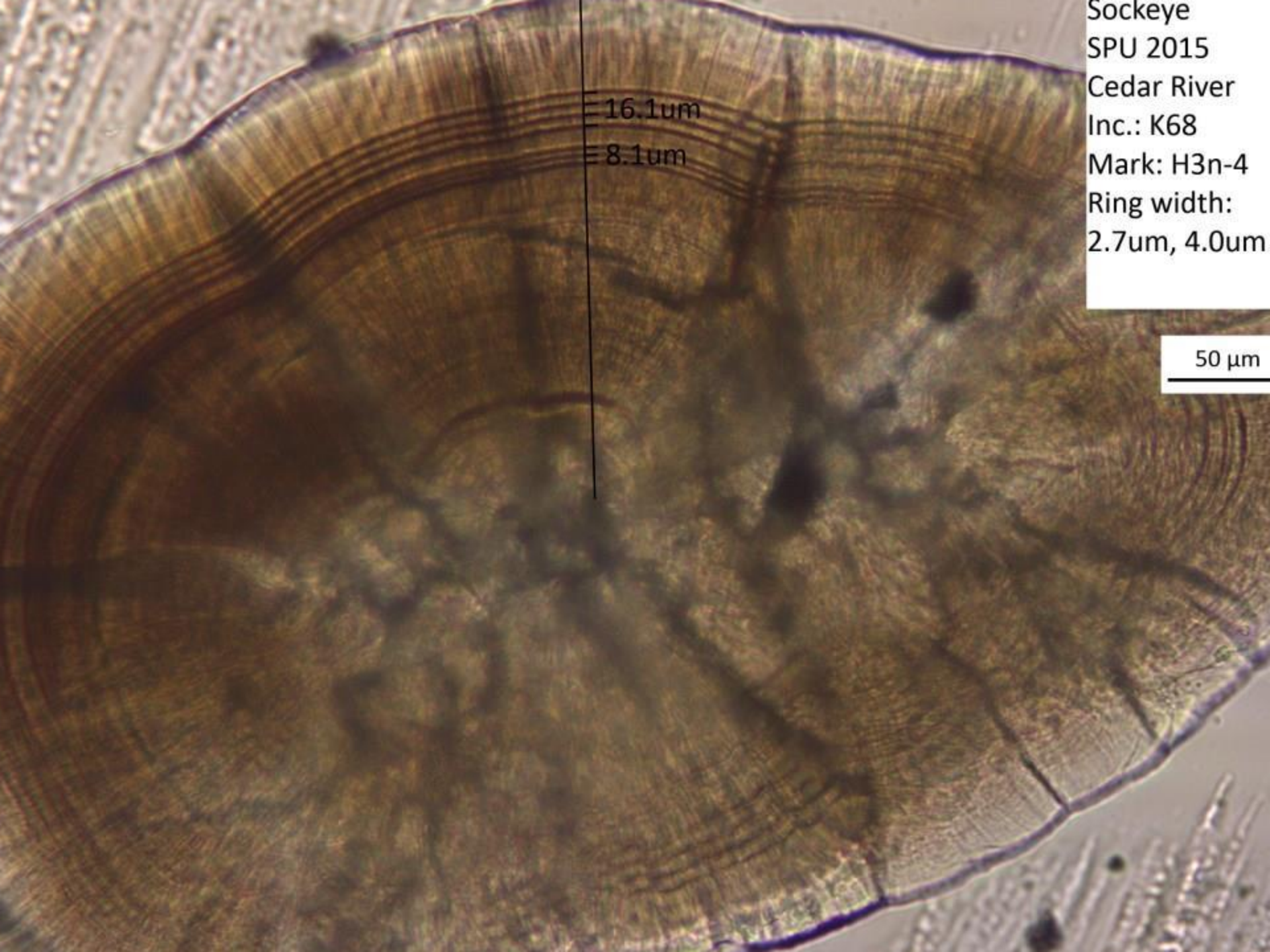
Sockeye
SPU 2015
Cedar River
Inc.: K62
Mark: H3n-4
Ring width:
2.4um, 3.9um

15.4um

7.2um

50 μ m



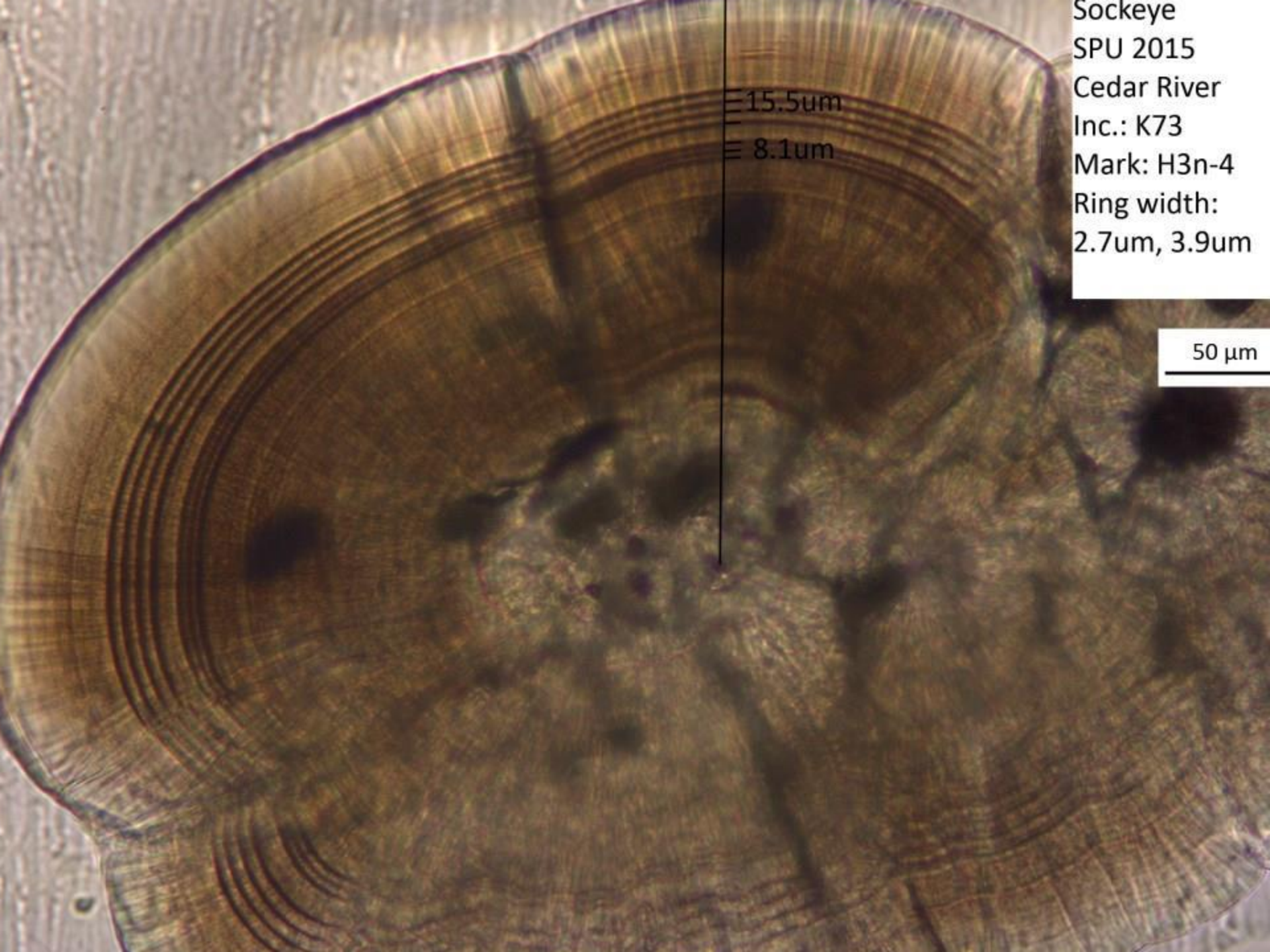


16.1um

8.1um

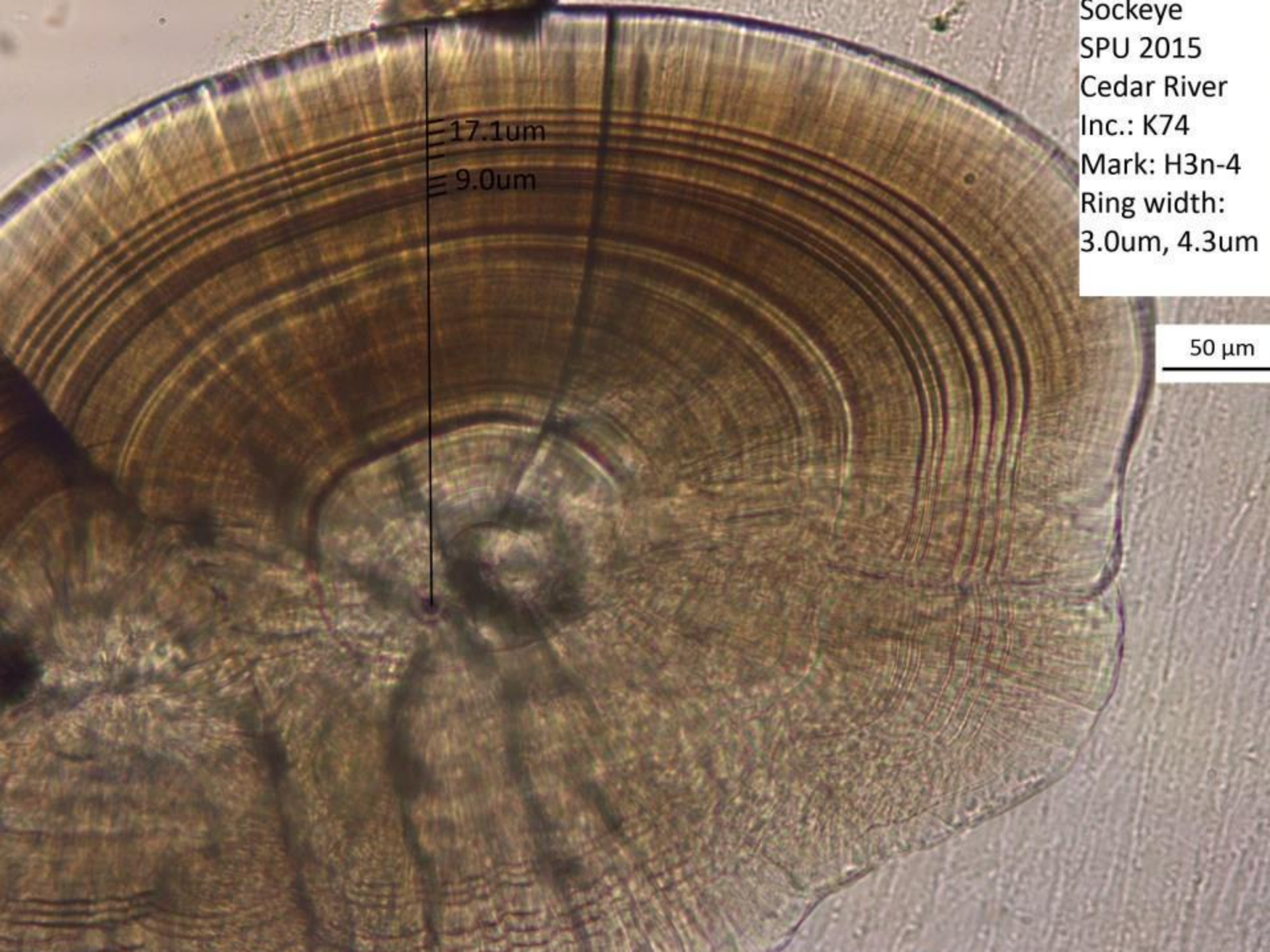
Sockeye
SPU 2015
Cedar River
Inc.: K68
Mark: H3n-4
Ring width:
2.7um, 4.0um

50 μm



Sockeye
SPU 2015
Cedar River
Inc.: K73
Mark: H3n-4
Ring width:
2.7um, 3.9um

50 μ m



Sockeye
SPU 2015
Cedar River
Inc.: K74
Mark: H3n-4
Ring width:
3.0um, 4.3um

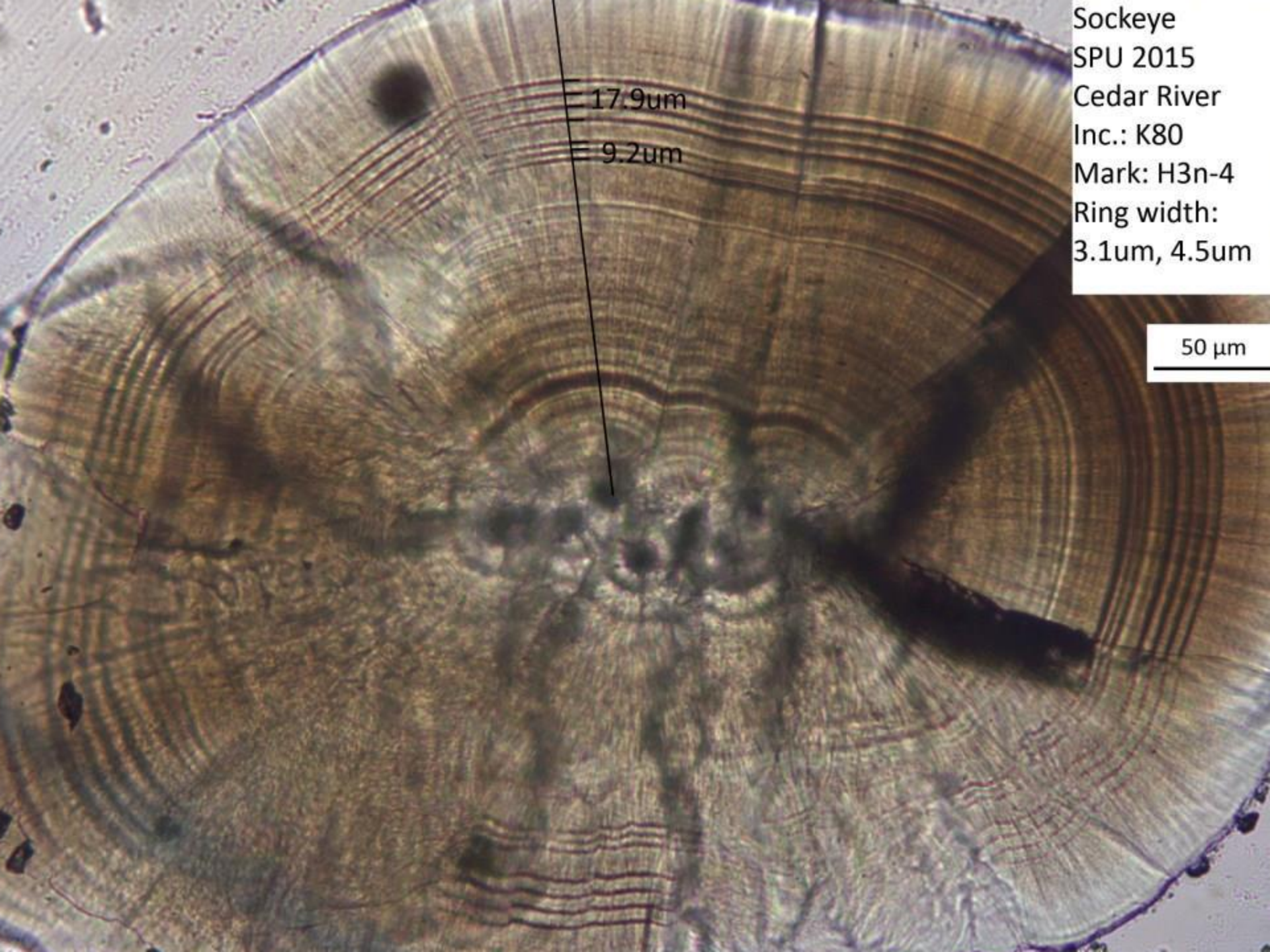
50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K79
Mark: H3n-4
Ring width:
2.9 μ m, 4.3 μ m

17.0 μ m

8.7 μ m

50 μ m



17.9um

9.2um

Sockeye
SPU 2015
Cedar River
Inc.: K80
Mark: H3n-4
Ring width:
3.1um, 4.5um

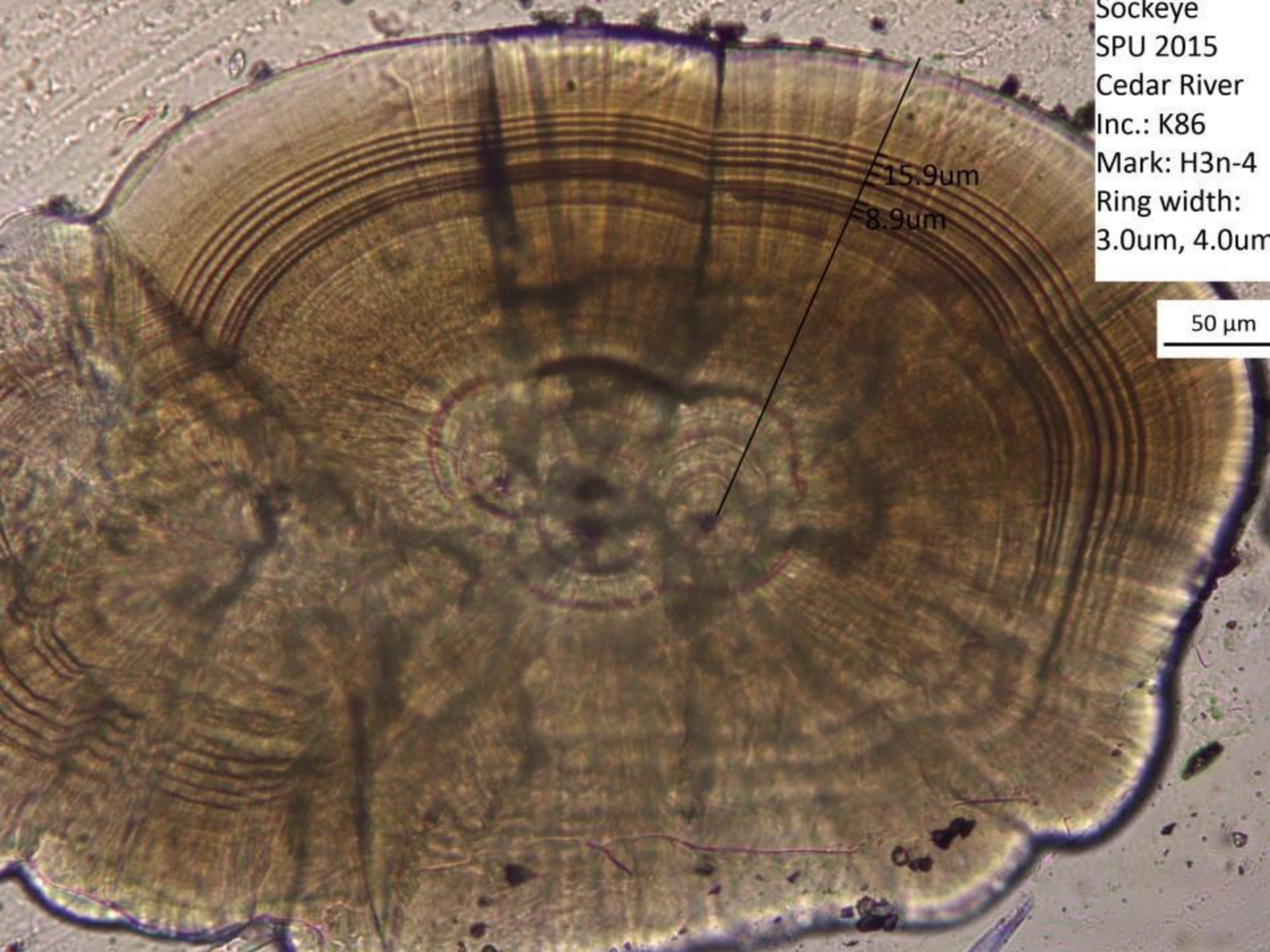
50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K86
Mark: H3n-4
Ring width:
3.0um, 4.0um

15.9um

8.9um

50 μ m

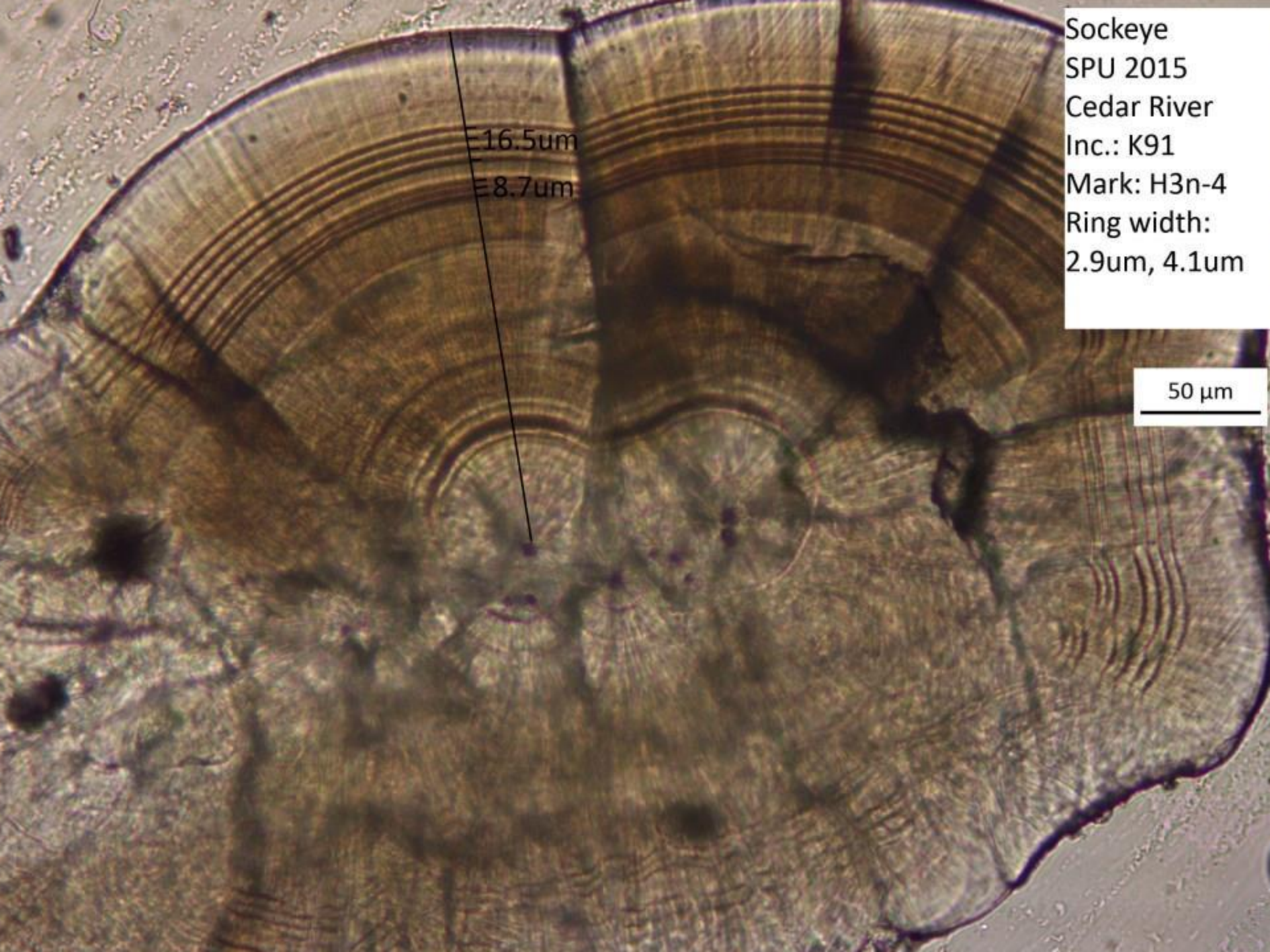


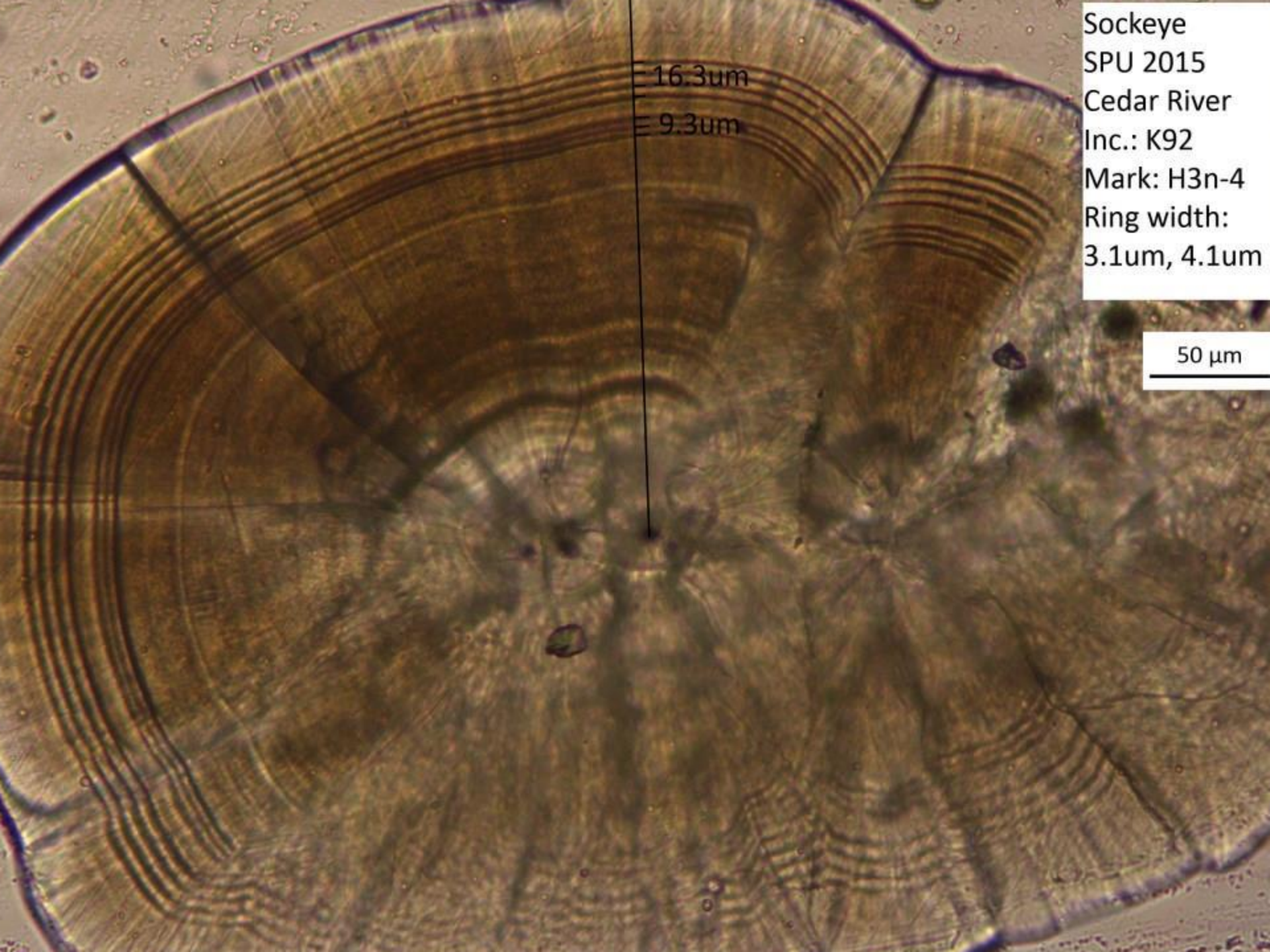
Sockeye
SPU 2015
Cedar River
Inc.: K91
Mark: H3n-4
Ring width:
2.9 μ m, 4.1 μ m

16.5 μ m

8.7 μ m

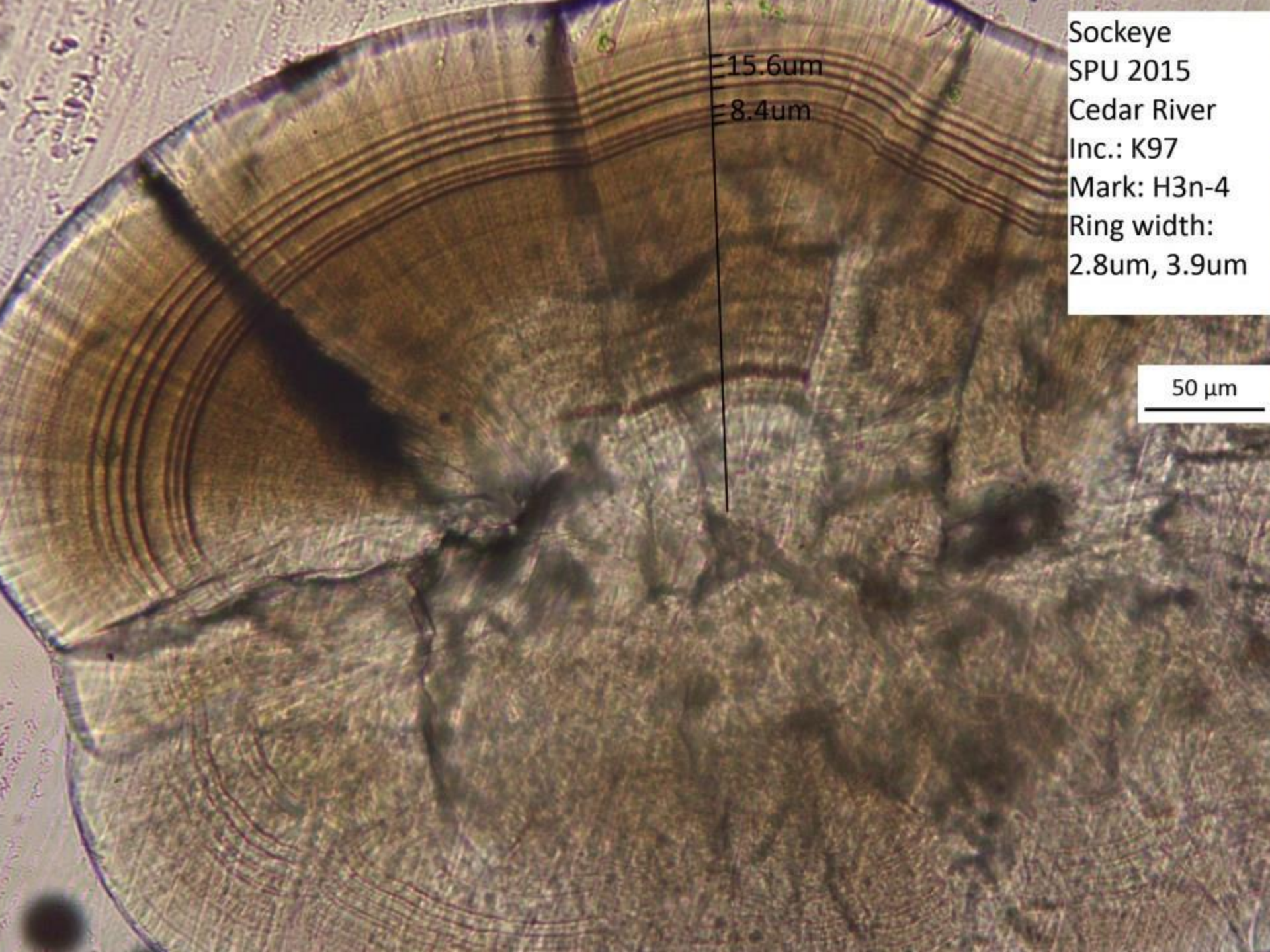
50 μ m





Sockeye
SPU 2015
Cedar River
Inc.: K92
Mark: H3n-4
Ring width:
3.1um, 4.1um

50 μm



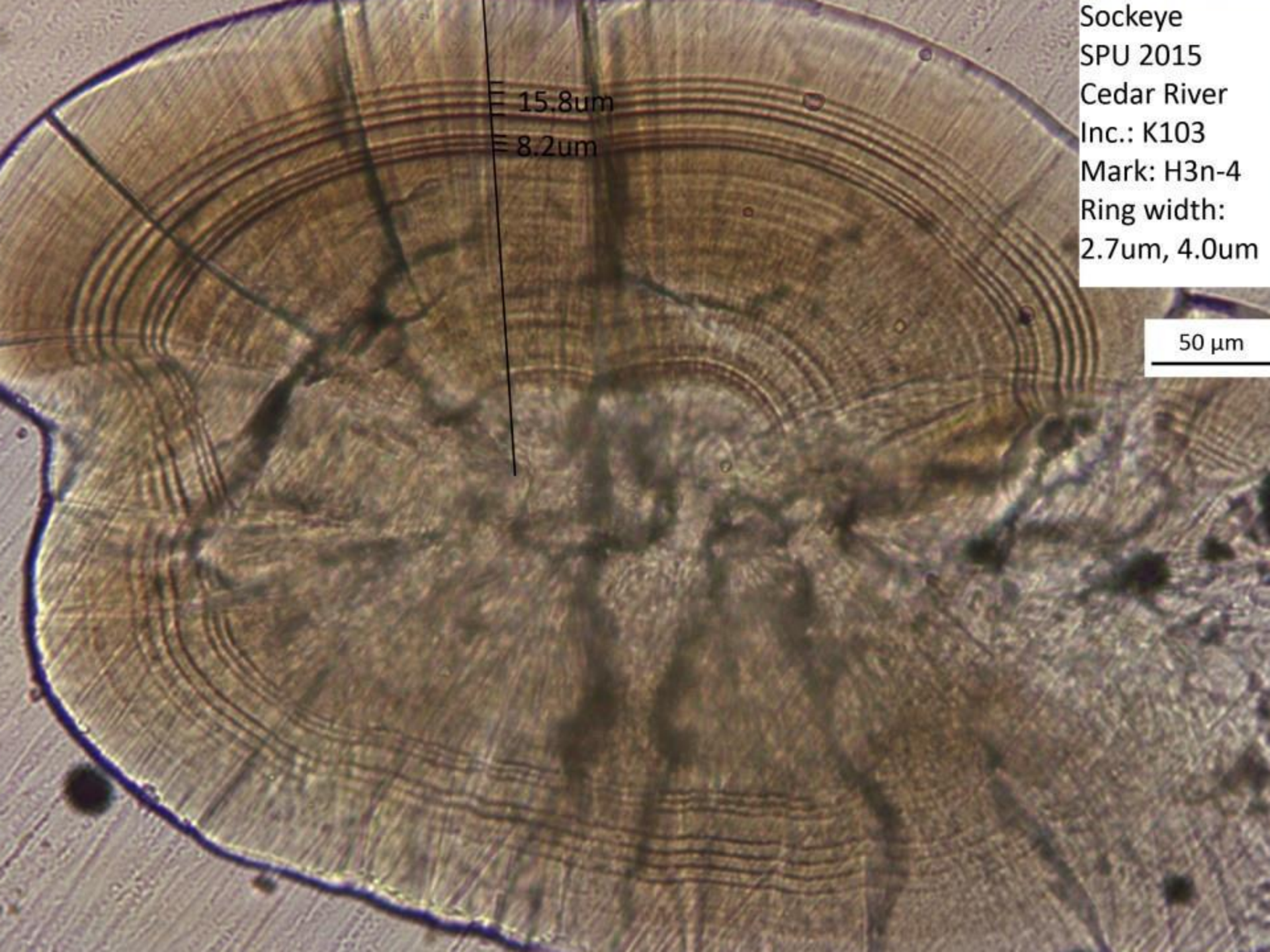
Sockeye
SPU 2015
Cedar River
Inc.: K97
Mark: H3n-4
Ring width:
2.8um, 3.9um

50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K98
Mark: H3n-4
Ring width:
2.7um, 4.1um

16.3um
8.2um

50 μ m



Sockeye
SPU 2015
Cedar River
Inc.: K103
Mark: H3n-4
Ring width:
2.7um, 4.0um

50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K104
Mark: H3n-4
Ring width:
2.7 μ m, 3.8 μ m

15.3 μ m

8.2 μ m

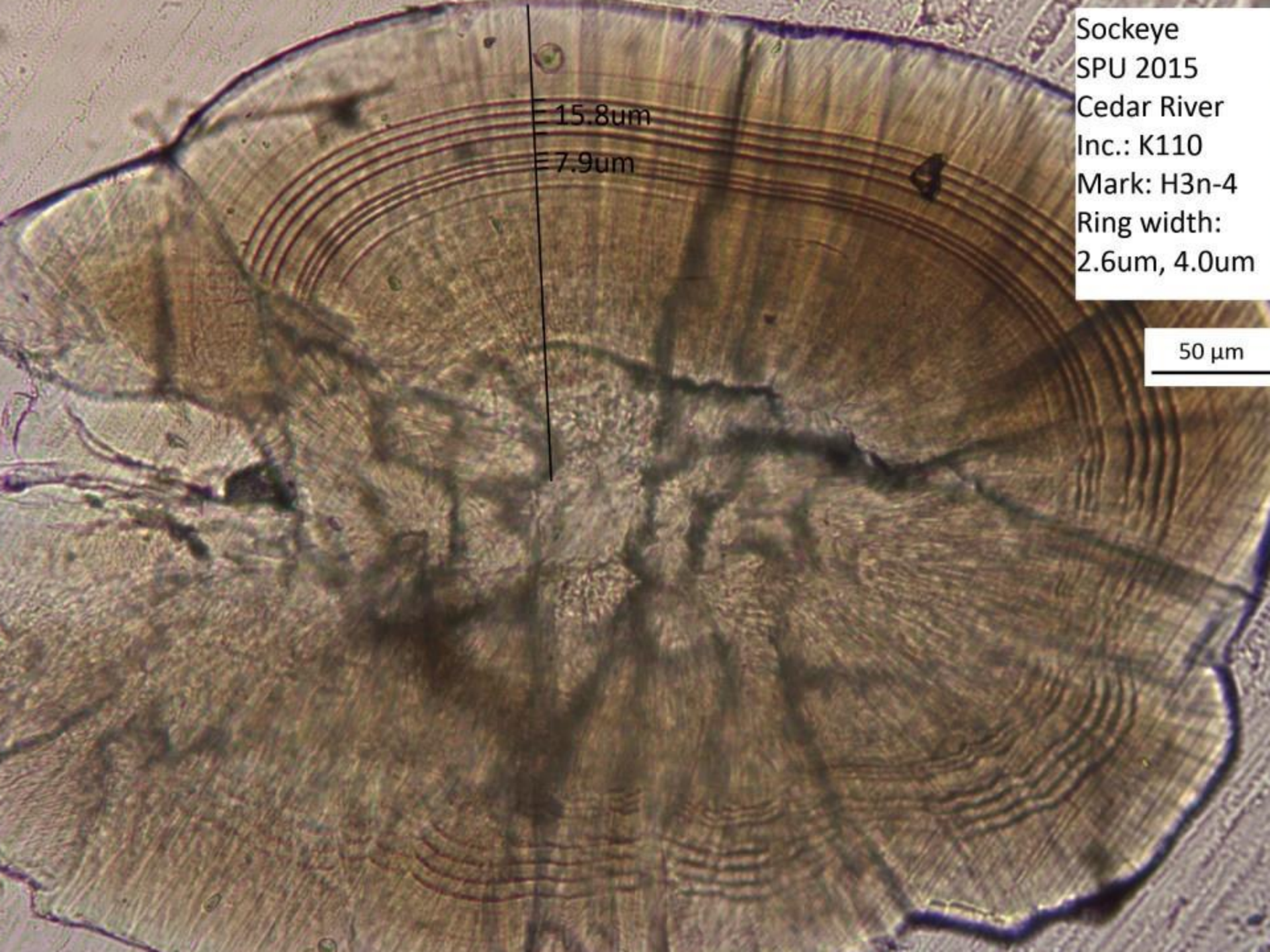
50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K110
Mark: H3n-4
Ring width:
2.6um, 4.0um

15.8um

7.9um

50 μ m

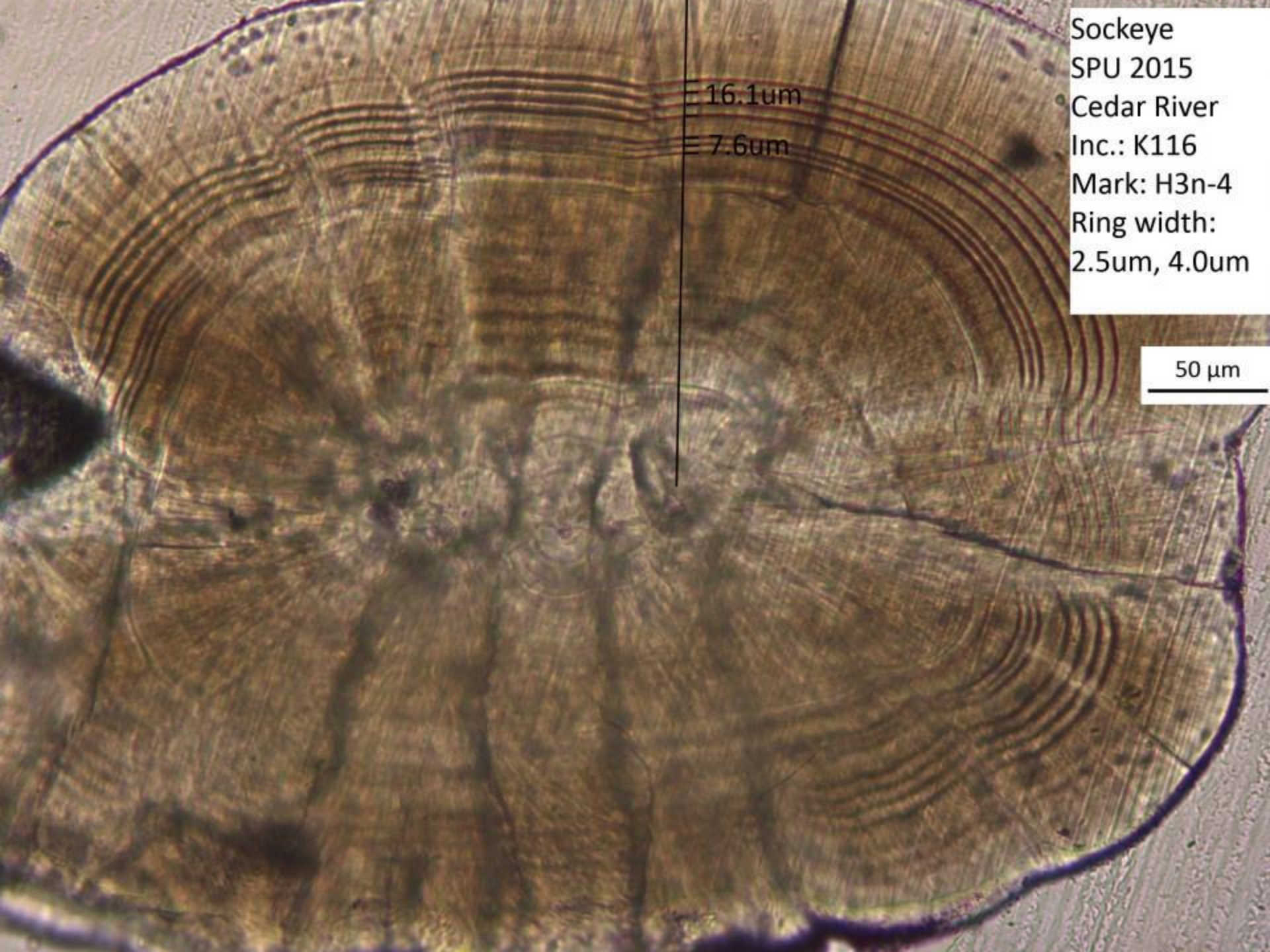


Sockeye
SPU 2015
Cedar River
Inc.: K115
Mark: H3n-4
Ring width:
2.7um, 4.2um

16.9um

8.2um

50 μ m



Sockeye
SPU 2015
Cedar River
Inc.: K116
Mark: H3n-4
Ring width:
2.5um, 4.0um

50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K121
Mark: H3n-4
Ring width:
2.8um, 4.5um

17.9um

8.3um

50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K122
Mark: H3n-4
Ring width:
2.9um, 4.3um

17.1um

8.6um

50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K127
Mark: H3n-4
Ring width:
2.9um, 4.3um

17.3um

8.6um

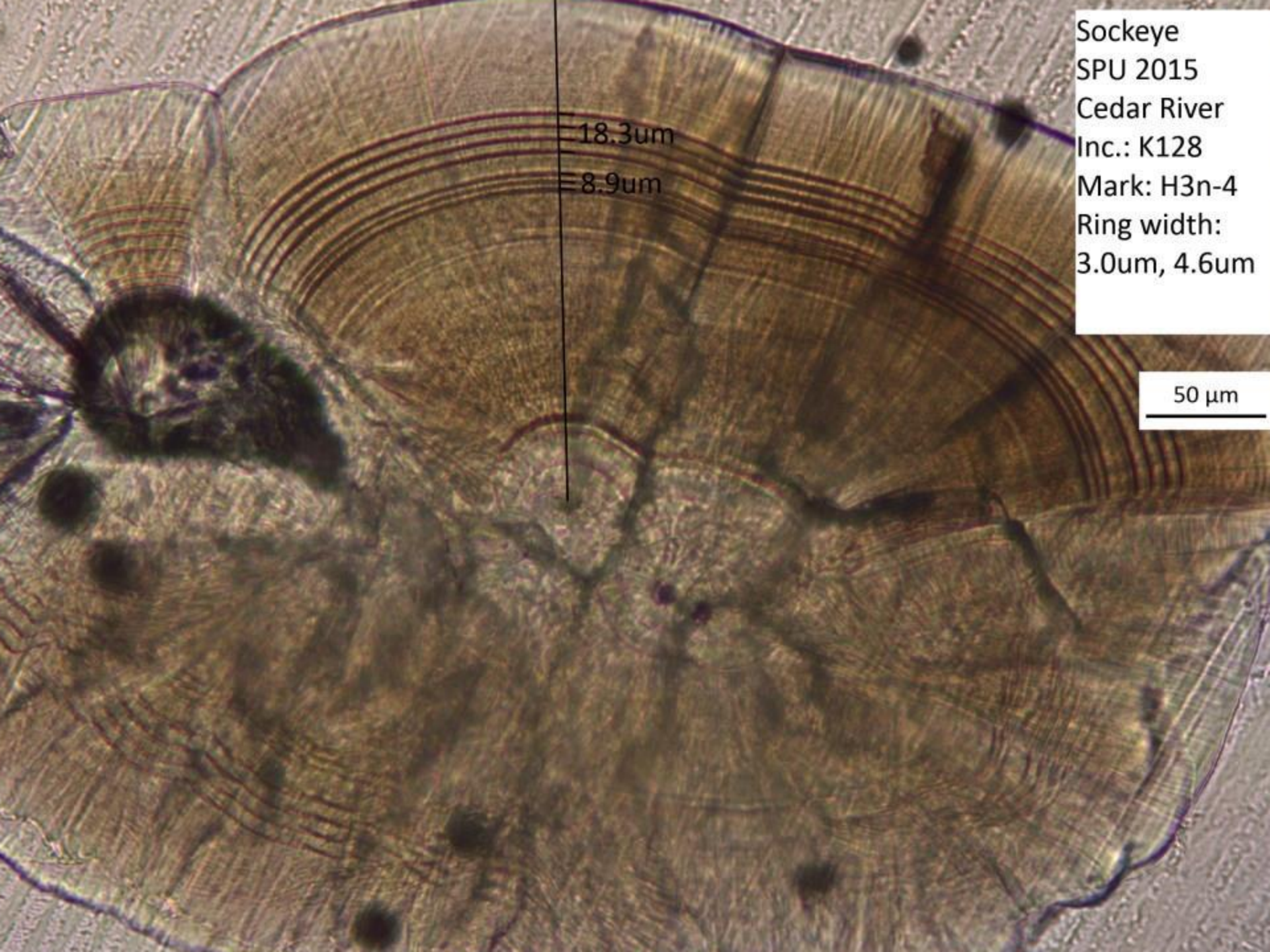
50 μ m

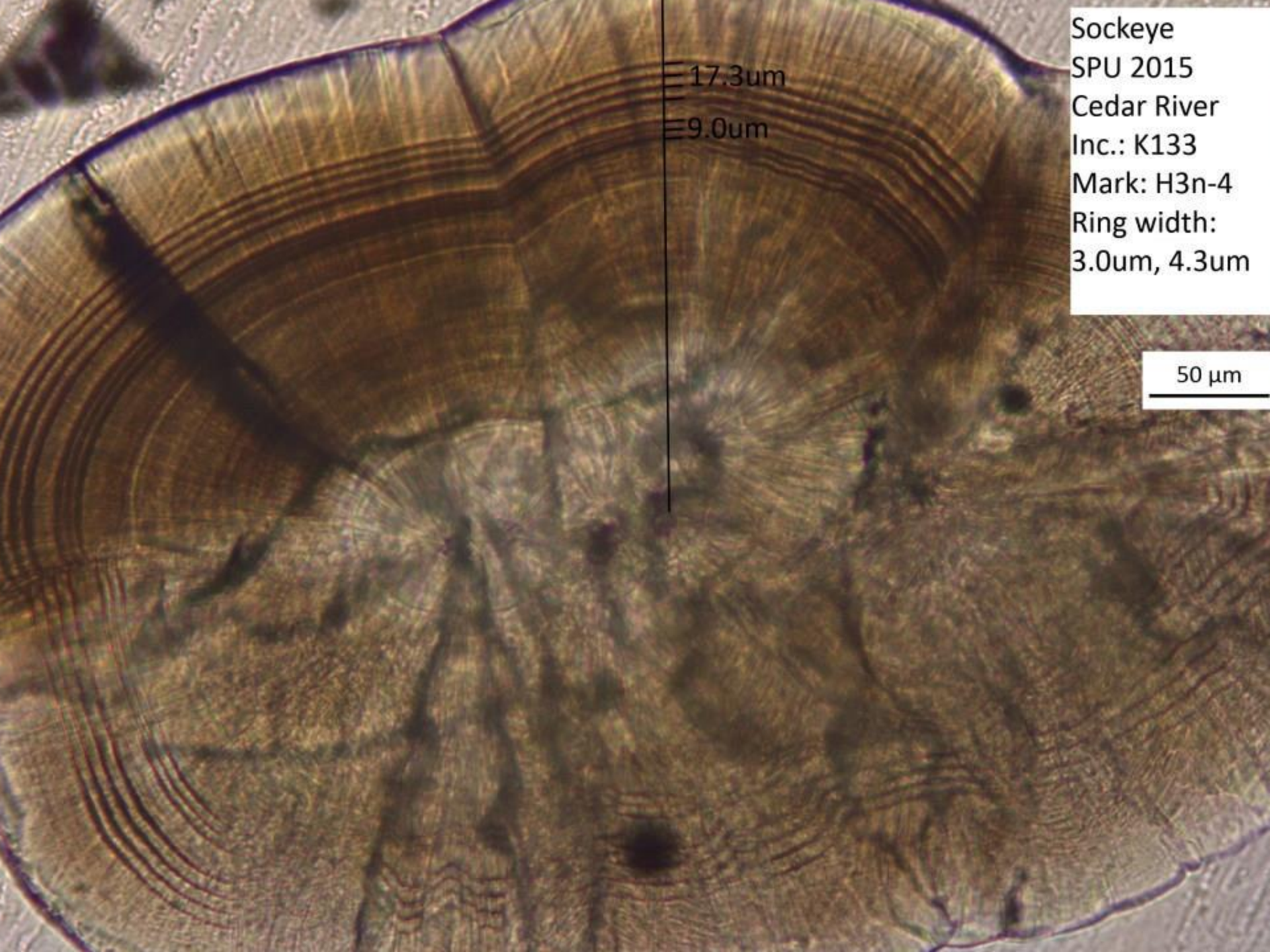
Sockeye
SPU 2015
Cedar River
Inc.: K128
Mark: H3n-4
Ring width:
3.0um, 4.6um

18.3um

8.9um

50 μ m





17.3um
9.0um

Sockeye
SPU 2015
Cedar River
Inc.: K133
Mark: H3n-4
Ring width:
3.0um, 4.3um

50 μm

Sockeye
SPU 2015
Cedar River
Inc.: K134
Mark: H3n-4
Ring width:
3.0um, 4.3um

17.1um

8.9um

50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K138
Mark: H4n-3
Ring width:
3.2um, 4.6um

13.8um

12.7um

50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K4
Mark: H4n-3
Ring width:
2.9um, 3.8um

11.4um

11.5um

50 μ m

Sockeye
SPU 2015
Cedar River
Inc.: K10
Mark: H4n-3
Ring width:
2.9um, 4.0um

12.0um

11.7um

50 μ m