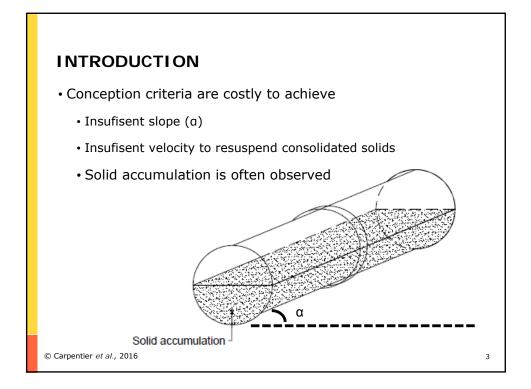
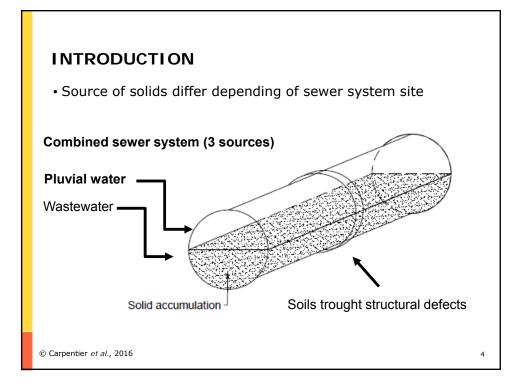
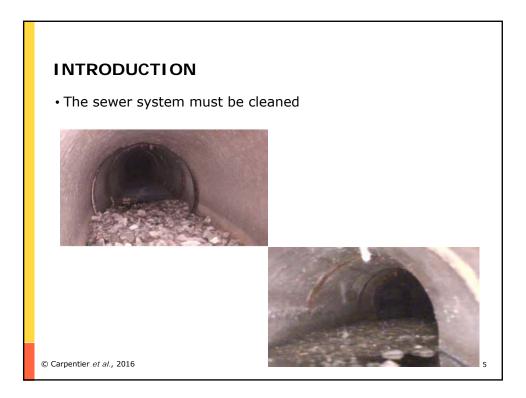
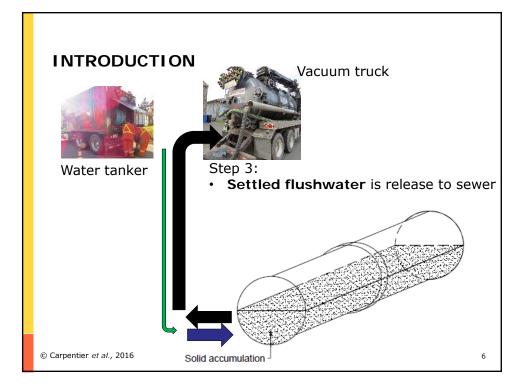


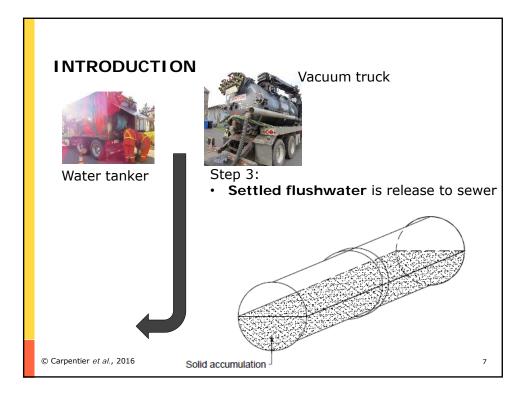
CONTENTS
• Introduction
• Objectives
• Methodology
Characterization of the particles load
Particle settling velocity
Particle size distribution
• Results
Laboratory test
Study comparison
 Conclusions and recommendations
© Carpentier <i>et al.</i> , 2016 2

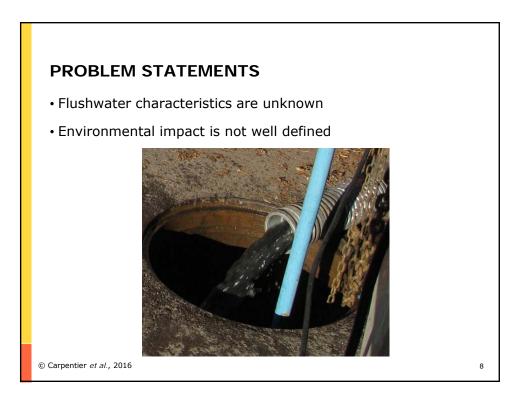


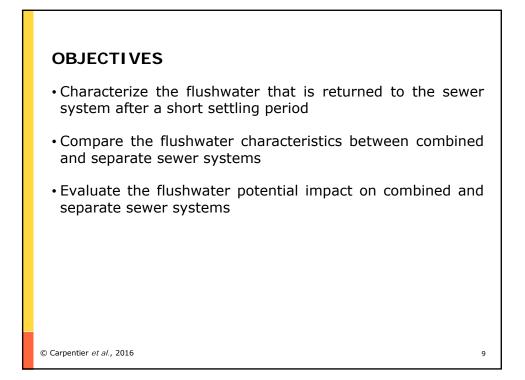


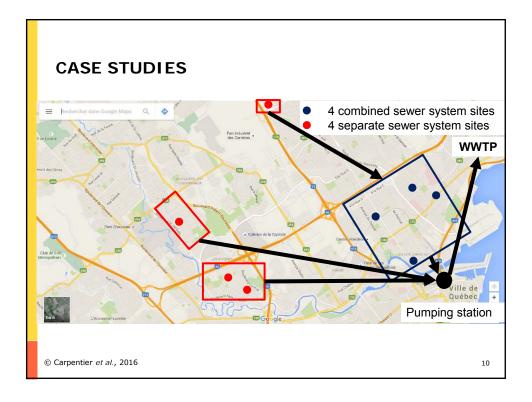


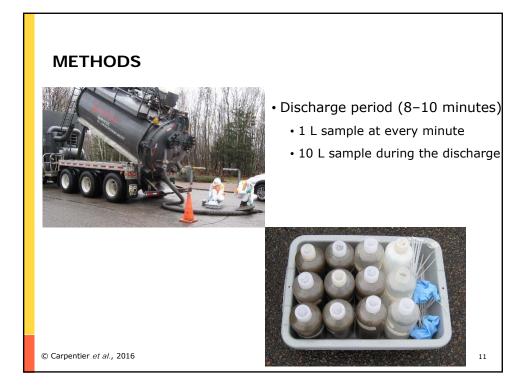


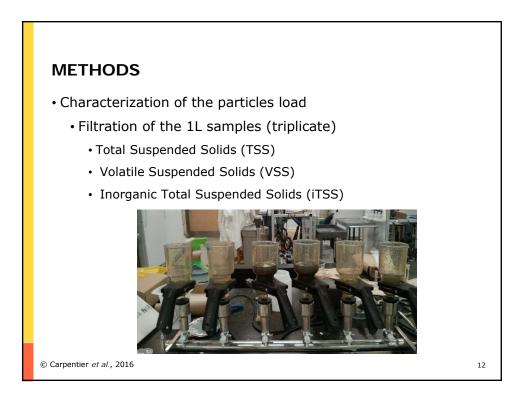


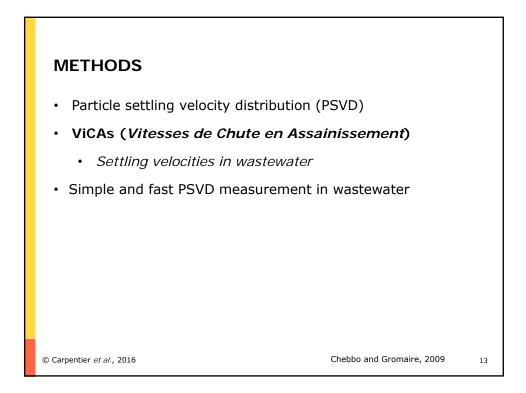


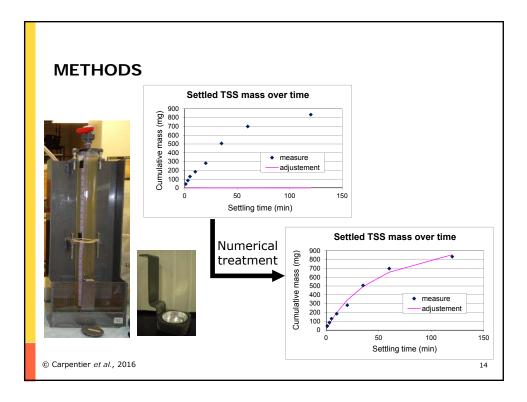


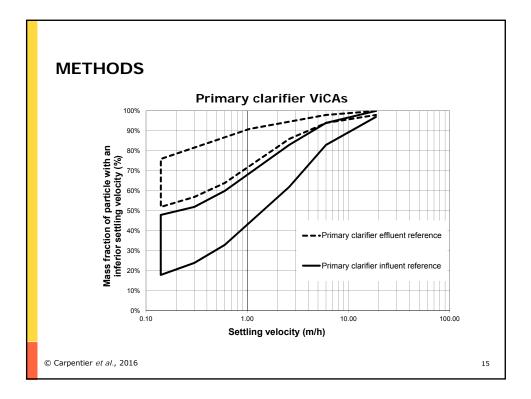


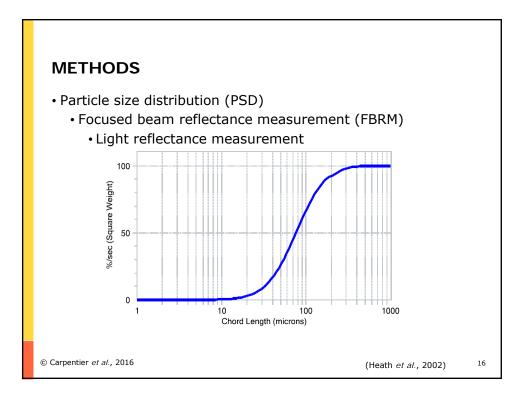












RESULTS

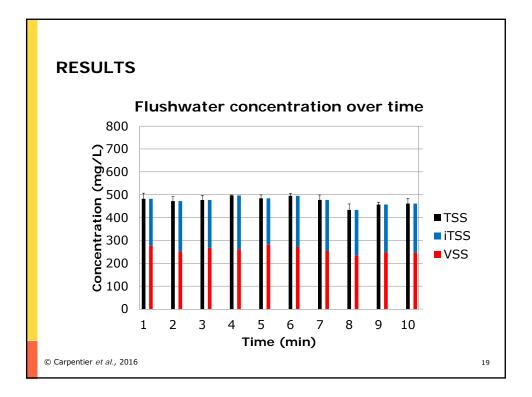
- No significant difference between the sewer systems
- iTSS ratio is higher than a typical residential wastewater

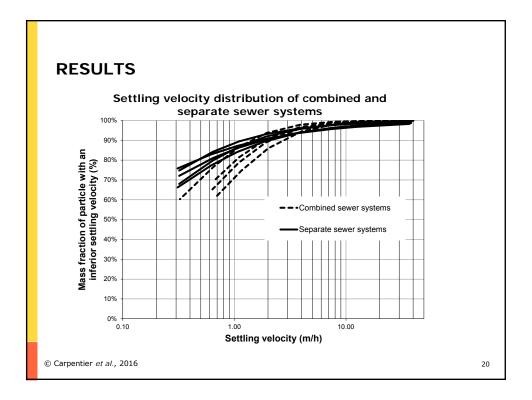
	Sepa	rate se	wer sys	stems
# site	TSS	VSS	iTSS	iTSS
	(mg/L)	(mg/L)	(mg/L)	(%)
5	470	235	235	50
6	660	290	370	56
7 (AM)	370	110	260	71
7 (PM)	1250	410	840	67
8	360	210	150	43
Average	470	210	260	55

17

© Carpentier et al., 2016

RESULT	S								
• No signif	icant diffe	erence	betwee	en the s	ewer s	ystems			
• iTSS ratio is higher than a typical residential wastewater									
Combined sewer systems									
	# site	TSS	VSS	iTSS	iTSS				
		(mg/L)	(mg/L)	(mg/L)	(%)				
	1	620	200	420	67				
	2	480	260	220	45				
	3 (AM)	12 000	1490	10 510	88				
	3 (PM)	400	90	310	78				
	4	610	320	290	48				
	Average	530	220	310	58				
© Carpentier et al., 2	2016							18	





	Combin	ed sewer s	systems			Sottlad TSS n	nass over time
# site		Cumulative mass	-	(bu	900 800	Settled 135 II	ass over time
	(5 min)	(10 min)	(20 min)	Cumulative mass (mg)	700 600		
1	11%	19%	32%	tive m	500 400		♦ measure
2	10%	17%	29%	mula	300 200		-adjustemer
3 (AM)	25%	42%	63%	Ö	100 0	1	1
3 (PM) 4	13% 7%	22% 13%	35% 23%			0 50 Set	100 tling time (min)

	Combin	ed sewer s	systems	Separa	te sewer s	ystem
# site	Cumulative mass	Cumulativ				
	(5 min)	(10 min)	(20 min)	(5 min)	(10 min)	(20 m
1	11%	19%	32%	9%	14%	20%
2	10%	17%	29%	8%	13%	219
3 (AM)	25%	42%	63%	7%	11%	179
3 (PM)	13%	22%	35%	9%	13%	185
	7%	13%	23%	10%	16%	23%

