

CITY OF REDMOND, 2002-2009 BENTHIC SAMPLE DATA

2011 Benthic Sample StationsTBD	Station ID	B-IBI Score	2009 Median Value	2010 Benthic Sample Stations	Station ID	B-IBI Score	2010 Median Value
Idylwood Creek A (Idylwood Park)*				Idylwood Creek A (Idylwood Park)*	168	18	
Villa Marina Creek A (DS Bypass Confluence)				Country Creek WLSP A	128	16	
Villa Marina Creek B (US of 172nd)				5050 Creek DS WLSP A	92	16	
Country Creek WLSP A				Peters Creek C (DS Mn/W.BrncH Confluence)*	174	22	
5050 Creek DS WLSP A				Peters Creek E (US Redmond Way)	176	30	
5050 Creek US B				Peters Creek F (W BrncH US 148th Ext)	177	26	
Peters Creek C (DS Mn/W.BrncH Confluence)*				Willows Creek A (daylighted segment)	178	20	
Peters Creek E (US Redmond Way)				Willows Creek C (DS of PSE property)*	180	28	
Peters Creek F (W BrncH US 148th Ext)				Avondale @116th/Monticello Crk A (DS of Avondale)*	35	26	
Willows Creek A (daylighted segment)				Mackey Crk B (Fer/McWrtr Park DS)*	107	44	
Willows Creek C (DS of PSE property)*				Perrigo Creek C (US of Dam)	182	32	
Redmond74/Valley Estates Crk A				Bear Creek (DS of Novelty Hill RD)	188	36	
Avondale@116th/Monticello Crk A (DS of Avondale)*							26
Mackey Crk B (Fer/McWrtr Park DS)*							
Perrigo Creek C (US of Dam)							
				*Core Benthic Sample Station			
						# of	Overall
						Samples	Median
				Core Benthic Sample Stations			
				Idylwood Creek A (Idylwood Park)	168	5	22
				Peters Creek C (DS Mn/W.BrncH Confluence)	174	6	21
				Willows Creek C (DS of PSE property)	180	6	26
				Avondale@116th/Monticello Crk A (DS of Avondale)	35	6	36
				Mackey Crk B (Fer/McWrtr Park DS)	107	6	38

Five Classes of Biological Condition

Grade	Score	Definition
Healthy	46 - 50	Ecologically intact, supporting the most sensitive life-forms.
Compromised	36 - 44	Showing signs of ecological degradation. Impacts expected to one or more salmon life-stages. A B-IBI SCORE above about 35 is necessary to support a self-sustaining population of anadromous salmonids.
Impaired	28 - 34	Healthy ecosystem functions demonstrably impaired. Cannot support self-sustaining salmon populations.
Highly Impaired	18 - 26	Highly adverse to salmon and various other life-forms.
Critically Impaired	10 - 16	Unable to support a large proportion of once-native life-forms.

2009 Benthic Sample Stations	Station ID	B-IBI Score	2009 Median Value	2008 Benthic Sample Stations	Station ID	B-IBI Score	2008 Median
Idylwood Creek A (Idylwood Park)*	168	22		Idylwood Creek A (Idylwood Park)*	168	22	
Villa Marina Creek A (DS Bypass Confluence)	124	18		Villa Marina Creek A (DS Bypass Confluence)	124	18	
Villa Marina Creek B (US of 172nd)	127	20		Villa Marina Creek B (US of 172nd)	127	20	

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Country Creek WLSP A	128	24		Country Creek WLSP A	128	20	
5050 Creek DS WLSP A	92	20		5050 Creek DS WLSP A	92	16	
5050 Creek US B	93	26		5050 Creek US B	93	18	
Peters Creek C (DS Mn/W.Brnc Confluence)*	174	22		Peters Creek C (DS Mn/W.Brnc Confluence)*	174	20	
Peters Creek E (US Redmond Way)	176	22		Peters Creek E (US Redmond Way)	176	24	
Peters Creek F (W Brnc US 148th Ext)	177	18		Peters Creek F (W Brnc US 148th Ext)	177	22	
Willows Creek A (daylighted segment)	178	16		Willows Creek A (daylighted segment)	178	16	
Willows Creek C (DS of PSE property)*	180	26		Willows Creek C (DS of PSE property)*	180	30	
Redmond74/Valley Estates Crk A	131	20		Redmond74/Valley Estates Crk A	131	16	
Avondale@116th/Monticello Crk A (DS of Avondale)*	35	36		Avondale@116th/Monticello Crk A (DS of Avondale)*	35	38	
Mackey Crk B (Fer/McWrtr Park DS)*	107	34		Mackey Crk B (Fer/McWrtr Park DS)*	107	38	
Perrigo Creek C (US of Dam)	182	36		Perrigo Creek C (US of Dam)	182	30	
			22				20
				*Core Benthic Sample Station			
						# of	Overall
				Core Benthic Sample Stations		Samples	Median
				Idylwood Creek A (Idylwood Park)	168	4	22
				Peters Creek C (DS Mn/W.Brnc Confluence)	174	5	20
				Willows Creek C (DS of PSE property)	180	5	26
				Avondale@116th/Monticello Crk A (DS of Avondale)	35	5	36
				Mackey Crk B (Fer/McWrtr Park DS)	107	5	38

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Compromised	36 - 44	Showing signs of ecological degradation. Impacts expected to one or more salmon life-stages. A B-IBI SCORE above about 35 is necessary to support a self sustaining population of anadromous salmonids.
Impaired	28 - 34	Healthy ecosystem functions demonstrably impaired. Cannot support self-sustaining salmon populations.
Highly Impaired	18 - 26	Highly adverse to salmon and various other life-forms.
Critically Impaired	10 - 16	Unable to support a large proportion of once-native life-forms.

2007 Benthic Sample Stations	Station ID	B-IBI Score	2007 Median Value	2006 Benthic Sample Stations	Station ID	B-IBI Score	2006 Median Value
Redmond HS Stream A(US of Samm Riv)	183	22		Redmond HS Stream A(US of Samm Riv)	183	18	
Redmond HS Stream C/B(DS of 116th)	184	26		Redmond HS Stream C/B(DS of 116th)	184	24	
Redmond HS Stream D/C(US of 116th)	185	26		Redmond HS Stream D/C(US of 116th)	185	22	

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Monticello/Avondale @ 116th A (DS of Avondale)*	35	36		Monticello/Avondale @ 116th A (DS of Avondale)*	35	36
Monticello/Avondale @ 116th B (US of Avondale)	94	32		Monticello/Avondale @ 116th B (US of Avondale)	94	38
Essex Park Crk A(US of Avondale)	105	28		Essex Park Crk A(US of Avondale)	105	20
Essex Park Crk B (DS of 183rd Ave StormPond)	98			Essex Park Crk B (DS of 183rd Ave StormPond)	98	
Mackey Crk A (DS of 106th)	106	32		Mackey Crk A (DS of 106th)	106	36
Mackey Crk B (Fer/McWrtr Park DS)*	107	38		Mackey Crk B (Fer/McWrtr Park DS)*	107	38
Mackey Crk C (Fer/McWrtr Park US)	108	38		Mackey Crk C (Fer/McWrtr Park US)	108	36
Bear Crk Trib 0114 A (US NE 95th ST)	137	26		Bear Crk Trib 0114 A (US NE 95th ST)	137	32
			30			34
				*Core Benthic Sample Station		

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Impaired	28 - 34	Healthy ecosystem functions demonstrably impaired. Cannot support self-sustaining salmon populations.
Highly Impaired	18 - 26	Highly adverse to salmon and various other life-forms.
Critically Impaired	10 - 16	Unable to support a large proportion of once-native life-forms.

2005 Benthic Sample Stations	Station ID	B-IBI Score	2005 Median Value	2004 Benthic Sample Stations	Station ID	B-IBI Score	2004 Median Value
Redmond HS Stream A(US of Samm Riv)	183	18		Idylwood Creek A (Idylwood Park)*	168	22	
Redmond HS Stream C/B(DS of 116th)	184	32		Idylwood Creek B (upper park)	169	24	
Redmond HS Stream D/C(US of 116th)	185	28		Idylwood Creek C (US NE 36th ST)	170	24	
				Idylwood Creek D (US NE 28th ST)	171	14	

CITY OF REDMOND, 2002-2009 BENTHIC SAMPLE DATA

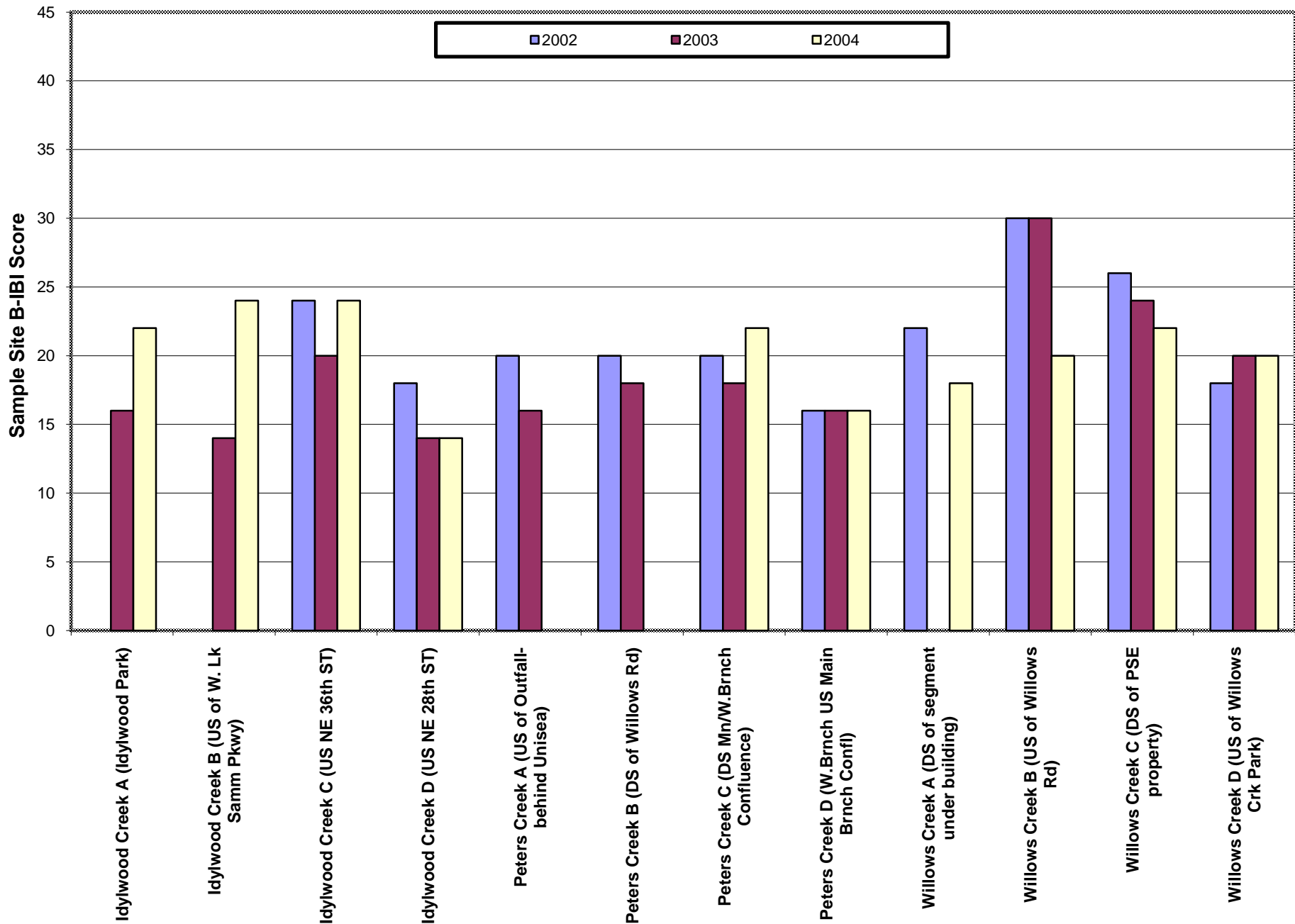
Monticello/Avondale @ 116th A (DS of Avondale)*	35	38				
Monticello/Avondale @ 116th B (US of Avondale)	94	34			Peters Creek A (US of Outfall-behind Unisea)	172
					Peters Creek B (DS of Willows Rd)	173
Essex Park Crk A(US of Avondale)	105	20			<i>Peters Creek C (DS Mn/W.Brnc Confluence)</i>	174 22
Essex Park Crk B (DS of 183rd Ave StormPond)	98	20			Peters Creek D (W.Brnc US Main Brnc Confl)	175 16
Mackey Crk A (DS of 106th)	106	32			Willows Creek A (DS of segment under building)	178 18
<i>Mackey Crk B (Fer/McWrtr Park DS)*</i>	107	42			Willows Creek B (US of Willows Rd)	179 22
<i>Mackey Crk C (Fer/McWrtr Park US)</i>	108	40			<i>Willows Creek C (DS of PSE property)*</i>	180 22
					Willows Creek D (US of Willows Crk Park)	181 20
Bear Crk Trib 0114 A (US NE 95th ST)	137	30				
			32			
					<i>*Core Benthic Sample Station</i>	

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Critically Impaired	10 - 16	Unable to support a large proportion of once-native life-forms.

2003 Benthic Sample Stations	Station ID	B-IBI Score	2003 Median Value	2002 Benthic Sample Stations	Station ID	B-IBI Score	2002 Median Value
<i>Idylwood Creek A (Idylwood Park)*</i>	168	16		<i>Idylwood Creek A (Idylwood Park)*</i>	168		
Idylwood Creek B (upper park)	169	14		Idylwood Creek B (upper park)	169		
Idylwood Creek C (US NE 36th ST)	170	20		Idylwood Creek C (US NE 36th ST)	170	24	
Idylwood Creek D (US NE 28th ST)	171	14		Idylwood Creek D (US NE 28th ST)	171	18	

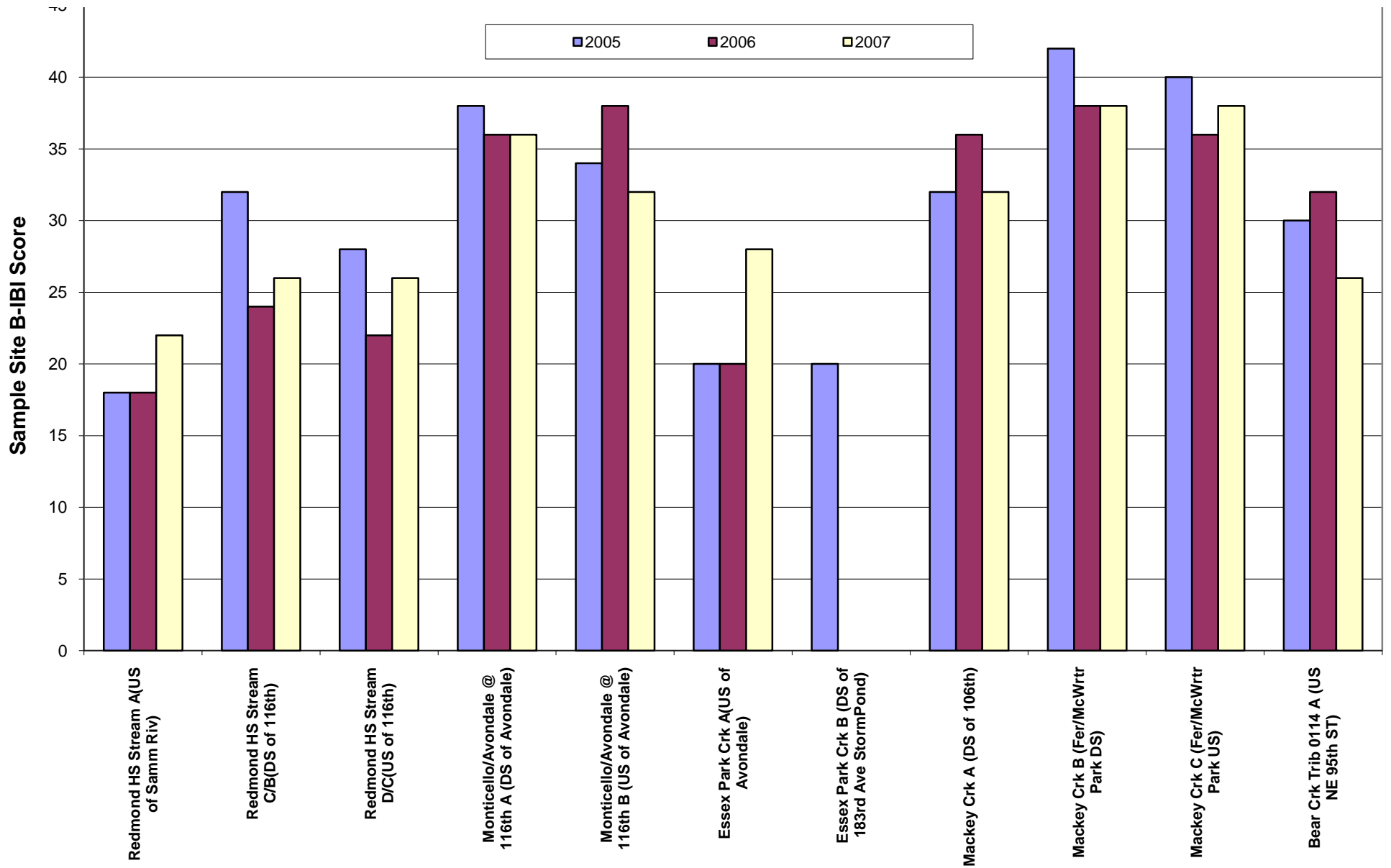
CITY OF REDMOND, 2002-2009 BENTHIC SAMPLE DATA



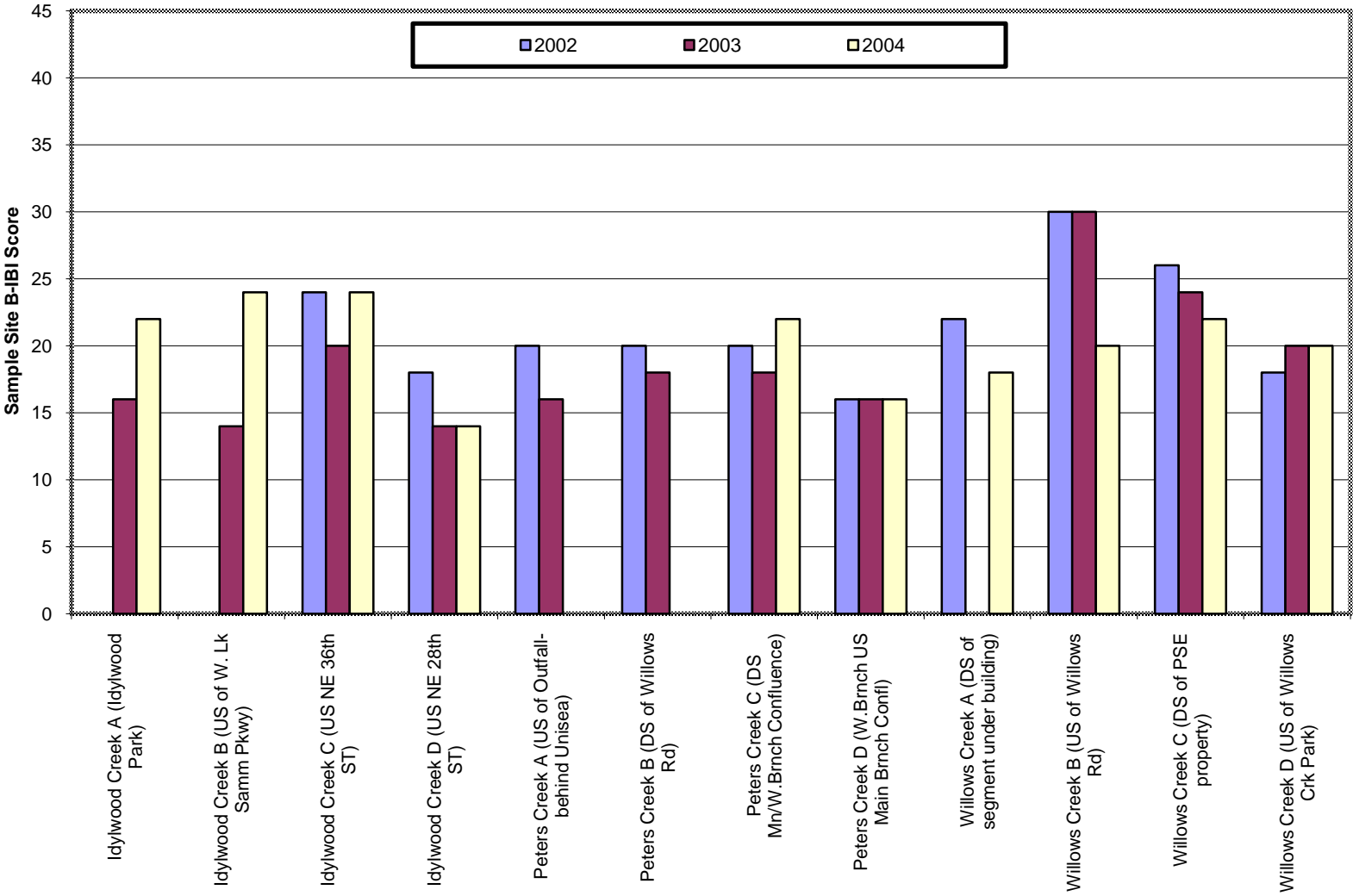
City of Redmond, Macroinvertebrate B-IBI Data (2005-2007)

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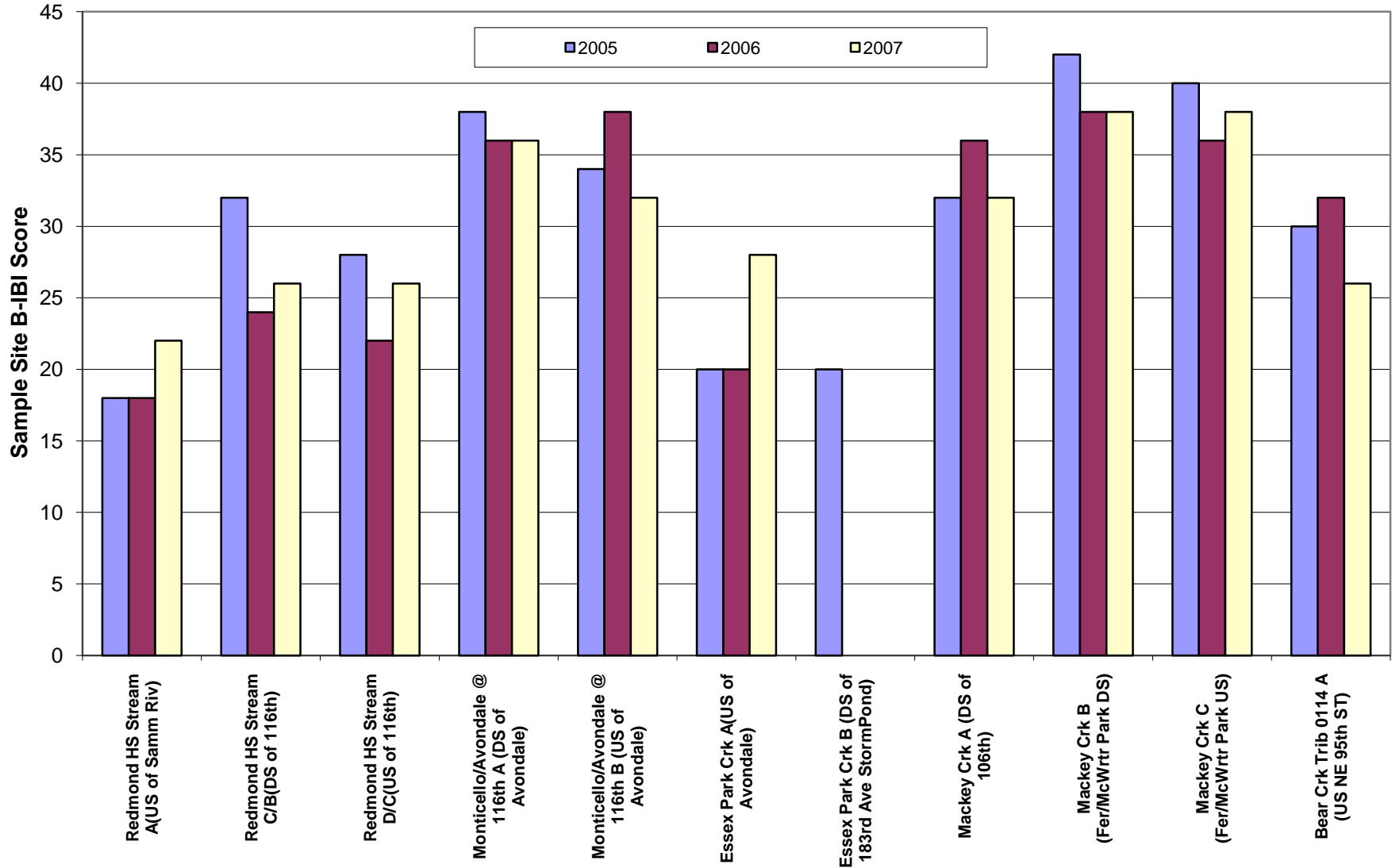
CITY OF REDMOND, 2002-2009 BENTHIC SAMPLE DATA



City of Redmond, Macroinvertebrate B-IBI Data (2002-2004)



City of Redmond, Macroinvertebrate B-IBI Data (2005-2007)



2008-2010 Benthic Sampling Scores

