

WORKSHEET NO. 1 IMPERVIOUS SURFACE AREA CALCULATION

These impervious surface area calculations are required per Section 8.009 of the Sauk County Shoreland Protection Ordinance. The County impervious surface standards apply to the construction, reconstruction, expansion, replacement or relocation of **ANY** impervious surface on a riparian lot or parcel and any non-riparian lot or parcel that is located entirely within 300 feet of the ordinary highwater mark of any navigable lake, pond, flowage or waterway. An impervious surface is an area that releases, as runoff, all or a majority of the precipitation that falls on it. Under the County's Shoreland Ordinance, an **IMPERVIOUS SURFACE (AREA)** includes all of the following:

- All Buildings/Structures (homes/garages/sheds/etc.)
- Patios constructed with pavers/stone/concrete/blacktop/etc.
- Driveways, Sidewalks, Walkways and Stairways constructed with wood/stone/pavers/gravel/concrete/blacktop/etc.
- Compacted Parking Areas
- Decks and Porches (covered and uncovered)

plus, private/easement road surfaces, and any other surface/material that is determined by the County to be impervious. An impervious surface (area) excludes grassed and/or other vegetated areas, frozen soil, public road surfaces, or other surfaces that are specifically listed as exempted in the Ordinance.

To complete this worksheet, you will need to provide the dimensions and area calculations for **ALL** impervious surfaces (see description below) on your lot that are located (or to be located) within 300 feet of the ordinary highwater mark (edge of the water) of a navigable lake, pond, flowage or waterway. If additional space is required, please attach separate sheet(s) with the applicable dimensions and area calculations shown.

- 1 Is your property adjacent to the "water" or if not adjacent located **entirely** within 300 feet of the "water" (i.e., a lake, river or other navigable waterway/waterbody)?
 NO, go to line 38. YES, go to line 2.

- 2 Will any part of your proposed construction (impervious surface) project be located within 300 feet the water?
 NO, go to line 38. YES, go to line 3.

- 3 Is your property a vacant, undeveloped lot (i.e., no existing impervious surfaces present)?
 NO, go to line 4. YES, enter "0" (zero) on line 15, then go to line 17.

- 4 Complete Table 1: PreConstruction (Existing) Shoreland Impervious Surface Area (lines 5 thru 15) calculations below.

Sample

**TABLE 1
PRECONSTRUCTION (EXISTING) SHORELAND IMPERVIOUS SURFACE AREA**

- Calculate **ONLY** for the impervious surface areas of your property that are located "Within the Shoreland" of your lot.
NOTE: The "Shoreland" area of your property encompasses **all** of the land area from the water's edge to a point 300 feet landward.
- **DO NOT** include impervious surface areas that are located "Outside of the Shoreland" (i.e., **More than 300 feet from the water**).

Existing Structure or Surface	Width (ft.)	x	Length (ft.)	=	Area (sq. ft.)	Comments
5 House..... (or other principal structure)...	32	x	44	=	1,408	5a
.....		x		=		5b
.....		x		=		5c
.....		x		=		5d
6 Deck.....	30	x	12	=	360	6a
.....		x		=		6b
7 Patio (area).....		x		=		7a
.....		x		=		7b
8 Porch.....		x		=		8a
.....		x		=		8b
9 Garage.....		x		=		9a
.....		x		=		9b
10 Shed.....	28	x	24	=	672	10a
.....		x		=		10b
.....		x		=		10c
11 Sidewalk/Stairway (area).....	6	x	68	=	408	11a
.....		x		=		11b
12 Driveway (area).....	22	x	72	=	1,584	12a
.....		x		=		12b
13 Compacted parking area.....	26	x	30	=	780	13a
.....		x		=		13b
14 Other.....		x		=		14a
.....		x		=		14b

15 Add lines 5 thru 14. This is your PreConstruction (Existing) Impervious Surface Area.....	5,212	15
--	-------	----

16 **Required Preconstruction Site Plan:** Attach a site plan of your property (either dimensioned or drawn to scale) showing the preconstruction impervious surface areas listed in Table 1 above.

17 Complete Table 2: Proposed Construction (New & Existing) Shoreland Impervious Surface Area (lines 18 thru 28) calculations below.

TABLE 2
PROPOSED CONSTRUCTION (NEW & EXISTING) SHORELAND IMPERVIOUS SURFACE AREA

- Calculate **ONLY** for the impervious surface areas of your property that are located "Within the Shoreland" of your lot.
NOTE: The "Shoreland" area of your property encompasses all of the land area from the water's edge to a point 300 feet landward.
- **DO NOT** include impervious surface areas that are located "Outside of the Shoreland" (i.e., More than 300 feet from the water).
- For a totally new structure or surface (e.g., house, deck, patio, etc.) or for an addition to an existing structure or surface, you must enter/calculate the new width, length and area values for that particular structure/surface or addition in their applicable columns below

New & Existing Structure or Surface	Width (ft.)	x	Length (ft.)	=	Area (sq. ft.)	Comments	
18 House..... (or other principal structure).....	32	x	44	=	1,408	Addition <i>Sample</i>	
	32	x	15	=	480		
		x		=			18c
		x		=			18d
		x		=			18e
		x		=			18f
19 Deck.....	30	x	12	=	360		
		x		=			19b
		x		=			19c
		x		=			19d
20 Patio (area).....		x		=			
		x		=			20b
		x		=			20c
21 Porch.....		x		=			
		x		=			21b
		x		=			21c
22 Garage.....		x		=			
		x		=			22b
		x		=			22c
23 Shed.....	28	x	24	=	672		
		x		=			23b
		x		=			23c
		x		=			23d
		x		=			23e
24 Sidewalk/Stairway (area).....	6	x	68	=	408		
		x		=			24b
		x		=			24c
25 Driveway (area).....	22	x	72	=	1,584		
		x		=			25b
		x		=			25c
26 Compacted parking area.....	26	x	30	=	780		
		x		=			26b
		x		=			26c
27 Other.....		x		=		27a	
		x		=		27b	
		x		=		27c	
		x		=		27d	

5,212 Existing
+ 480 New

5,692

28	Add lines 18 thru 27. This is your Proposed Construction (<u>New & Existing</u>) Impervious Surface Area.....	5,692	28
----	---	--------------	----

29 **Required Construction Site Plan:** Attach a site plan of your property (either dimensioned or drawn to scale) showing the proposed construction impervious surface areas listed in Table 2 above.

WORKSHEET NO. 1 (PAGE 3)

30 Compare line 28 to line 15.
 If Line 28 is less than or equal to line 15, go to line 35.
 If line 28 is greater than line 15, go to line 31.

31 Is your property more than 300 feet deep?
 NO, go to line 31a. YES, go to line 32.

31a Enter the acreage of your property.....

.54	31a
23,522	31b

31b Multiply line 31a by 43,560. Go to line 33.....

32 Area of your property (in square feet) that is located wholly within 300 feet of the water.....

22,730	32
--------	----

 Don't Know

NOTE: This is the region of your property that encompasses the land area (in sq. ft.) from the water's edge to a point 300 feet landward.
 If you're unsure or you don't know this square footage (value), leave line 32 Blank (Do not enter zero).
 Also, check the "Don't Know" box on Line 32 above. In order to complete this form, you will need to contact our office [See office contact information below] for assistance. Complete line 33, go to line 38.

33 Multiply line 28 by 100.....

569,200	33
---------	----

34 Divide line 33 by the smaller number of either line 31b or line 32. This is your PERCENT IMPERVIOUS SURFACE

252	34
-----	----

Round to nearest whole number

LINE 34 IS LESS THAN OR EQUAL TO 15
 Go to line 35.

LINE 34 IS GREATER THAN 15 BUT LESS THAN OR EQUAL TO 30
 Go to line 36.

LINE 34 IS GREATER THAN 30
 Go to line 37.

Sample

35 Your proposed project complies with the imperious surface standards of the Sauk County Shoreland Ordinance.
 Go to line 38.

36 **Option 1:** Your County Land Use Permit cannot be issued by this department Until the property owner develops, submits, agrees to and records (**Affidavit Option #1**) a County-approved Mitigation Plan that meets the standards set forth in Section 8.013 of the Sauk County Shoreland Protection Ordinance. You also need to submit/complete Worksheet No. 2 (Mitigation Options) to this office for departmental review/approval.

Option 2: See 8.009(1)(d) Treated Impervious Surfaces Exemption. Impervious surfaces that are treated by devices such as stormwater ponds, constructed wetlands, infiltration basins, rain gardens, and other engineered systems are excluded from the impervious surface calculations. Your County Land Use Permit cannot be issued by this department Until the property owner develops, submits, agrees to and records (**Affidavit Option #2**) treated impervious surfaces plan.
 Go to line 38.

37 **Option 1:** Unfortunately, your project exceeds the maximum amount (percent) of impervious surface allowed by the Sauk County Shoreland Protection Ordinance and thus your Shoreland Land Use Permit **Cannot Be Issued** by this department as proposed.

Option 2: See 8.009(1)(d) Treated Impervious Surfaces Exemption. Impervious surfaces that are treated by devices such as stormwater ponds, constructed wetlands, infiltration basins, rain gardens, and other engineered systems are excluded from the impervious surface calculations. Your County Land Use Permit cannot be issued by this department Until the property owner develops, submits, agrees to and records (**Affidavit Option #2**) treated impervious surfaces plan.
 Go to line 38.

38 Sign and date this form and submit this form along with your Land Use Permit application (and any other applicable worksheet[s]) to the Sauk County Conservation, Planning, and Zoning Department for review and approval. Please contact our office to discuss your options regarding any questions on the Impervious Surface Standards [See office contact information below].

Site Address: <u>5999 Henry Rd</u>	Site Tax Parcel Number: <u>999-9999-00000</u>
Person completing this form (Print) <u>John Henry</u>	Daytime Phone (<u>999</u>) <u>999</u> - <u>9999</u>
Signature of person completing this form <u>[Signature]</u>	Date <u>1/31/2010</u>

NOTE: THIS WORKSHEET IS SUBJECT TO REVIEW AND APPROVAL BY THE SAUK COUNTY CONSERVATION, PLANNING AND ZONING DEPARTMENT.

OFFICE CONTACT INFORMATION

SAUK COUNTY CONSERVATION, PLANNING, AND ZONING DEPARTMENT
 505 BROADWAY, BARABOO, WI 53913
 WEBSITE: WWW.CO.SAUK.WI.US
 EMAIL: CONSERVATION@CO.SAUK.WI.US
 PHONE: (608) 355-3245 (MONDAY-FRIDAY 8:00AM TO 4:30PM)
 FAX: (608) 355-3292