CITY OF PORTLAND
Stormwater Management Manual

FORM 1

SIMPLIFIED APPROACH FORM

PROJECT INFORMATION WORKSHEET

PROJECT INFORMATION

Submittal Date: _____ **Permit Application Number:** _____

Owner Name: _____

Owner Phone: _____ **Owner Email:** _____

Designer Name: _____ **Designer Firm:** _____

Designer Phone: _____ **Designer Email:** _____

Designer License Number: _____ **License Type:** _____

Applicant Name *(if different from owner or designer)* _____

Applicant Phone: _____ **Applicant Email:** _____

SITE INFORMATION

Site Address: _____

_____

State Property ID *(six-digit R number)* **for all parcels** included in development proposal**:**

Brief Description of Proposed Development:

Soil Classifications: NRCS Wetted Drainage Class: _____

NRCS Hydrologic Soil Group: _____

Site Characteristics:

S.1 Do slopes exceed 20% anywhere within the project area?
☐ yes ☐ no

S.2 Are there springs, seeps, or a high groundwater table within the project area? ☐ yes ☐ no

If the answer to either S.1 or S.2 is **YES**, then a flow-through or partial infiltration facility with an overflow to an approvable discharge point is required.

Required Infiltration Testing

Date of Test: _____ Depth of Excavation (ft): _____

	TEST 1	TEST 2	TEST 3
A. Time *(of day)*			
B. Duration *(hours)* *(1 hour minimum)*			
C. Initial Water Depth *(inches)*			
D. Final Water Depth *(inches)*			
E. Infiltration Rate* *(inches/hour)*			**Final Infiltration Rate**

*Infiltration Rate = Initial Depth *(in)* – Final Depth *(in)* / Duration of Test *(hours)*

I acknowledge the accuracy of these infiltration testing results.

_____
Signature of tester *(required)*

_____
Print Name

_____
Date

TEST PIT LOCATION (SITE PLAN SKETCH)

Key information to include: 1) Site or parcel, 2) Adjacent road(s) or cross street(s), 3) Test pit location with dimensions

north

SIMPLIFIED APPROACH FORM

TREE CREDIT WORKSHEET

Not all sites are eligible for tree credit. See 2.3.3 for specific applicability.

1 New Coniferous Trees

Enter number of NEW coniferous trees that meet qualifying requirements ..... ☐ BOX A

Multiply Box A by **200** and enter results in Box B ..... ☐ BOX B

2 New Broadleaf Trees

Enter number of NEW broadleaf trees that meet qualifying requirements ..... ☐ BOX C

Multiply Box D by **100** and enter results in Box D ..... ☐ BOX D

3 Existing Tree Canopy

Enter number of EXISTING trees with caliper of 1.5 to 6 inches ..... ☐ BOX E1

Multiply Box E by **200** and enter results in Box E2 ..... ☐ BOX E2

For each tree larger than 6.1 caliper inches, there is **400** square feet of credit **per each 6 caliper inches**. List each tree *(on a separate page, if necessary)* larger than 6 caliper inches, include the actual caliper size, and determine the stormwater credit allowed per tree. Do not round up.

Trees *(include only trees larger than 6 caliper inches)*	**Caliper Size** *(in inches)*	**Credit Units** *(divide by 6 to get units to calculate credit)*		**Credit**	**Stormwater Credit**
		/6 =		x 400 sf	sf
		/6 =		x 400 sf	sf
		/6 =		x 400 sf	sf
		/6 =		x 400 sf	sf
		/6 =		x 400 sf	sf
		/6 =		x 400 sf	sf
				TOTAL	sf

..... ☐ BOX F

4 TOTAL TREE CREDIT

Add boxes B, D, E2 and F2, enter the TOTAL in Box G ..... ☐ **BOX G**

For sites with **LESS than 1,000 SF** of new or redeveloped impervious area:

The amount in Box G is to be entered on Page 4, 1 Tree Credit.

For sites with **MORE than 1,000 SF** of new or redeveloped impervious area:

Multiply Box 1 on Page 4 by 0.1 and enter result in Box H ..... ☐ BOX H

Enter the LESSER of Box G and Box H in Box I. ..... ☐ **BOX I**

The amount in Box G is to be entered on Page 4, 1 Tree Credit.

SIMPLIFIED APPROACH FORM

FACILITY SIZING WORKSHEET

1 Total impervious area being developed or redeveloped ..... [ ] BOX 1

Tree Credit: Enter total from Page 3, Box G or Box I _____ SF

Impervious Area Reduction Techniques Proposed:

A. Ecoroof _____ SF

B. Pervious Pavement _____ SF

2 Total impervious area reductions ..... [ ] BOX 2
(Add tree credit and impervious area reduction techniques square footage)

3 Total impervious area requiring stormwater management ..... [ ] BOX 3
(Subtract Box 2 from Box 1)

4 Surface facilities proposed

	Impervious Area Managed		Sizing Factor		Facility Surface Area
A. Planter	SF	x	0.06	=	SF
B. Swale	SF	x	0.09	=	SF
C. Basin	SF	x	0.09	=	SF
D. Downspout Extension	SF	x	0.10	=	SF
E. Vegetated Filter Strip for walks and driveways	SF	x	0.20	=	SF

Overflow will be directed to *(check all that apply)*: ☐ Subsurface Facility ☐ Surface Water ☐ Stormwater Sewer ☐ Combined Sewer

5 Total surface facility impervious area managed ..... [ ] BOX 4
(Add square footage from planters, swales, basins, downspout extensions, etc.)

6 Subsurface facilities proposed

The following subsurface facilities can receive overflow from the facilities listed above or can be used independently to manage stormwater from roofs. If stormwater is generated from anything other than roof area, the facilities are subject to the UIC (Underground Injection Control) requirements.

	(See Section 2.3.3 for sizing information)	**Facility Size**	
A. Drywell	_____sf	_____Diameter	_____Depth
B. Soakage Trench	_____ sf	_____Length	_____Width

7 Total subsurface facility impervious area managed ..... [ ] BOX 5
(Add square footage from proposed drywell, soakage trench)

8 Total stormwater facility impervious area managed ..... [ ] BOX 6
(Add totals from Box 4 and Box 5)

9 Total impervious area without management ..... [ ] **BOX 7**
(Subtract Box 6 from Box 3)

Escape Route: If the stormwater facility temporarily fails or rainfall exceeds the facility design capacity, describe where flows will drain to in order to maintain public safety and avoid property damage. Depending on site conditions, this may include storage in an overflow structure, parking lot, street, or landscaped area.

I certify the accuracy of this application.

Signature: _____ Date: _____

Printed Name: _____