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An ordinance amending portions of the Clark County Stormwater Manual 2015

3 WHEREAS, pursuant to the National Pollution Discharge Elimination System of the Federal

- Clean Water Act and Chapter 90.48 RCW, the Washington Department of Ecology (Ecology) 4
- 5 issued Clark County a Phase I Municipal Stormwater Permit (Permit) on August 1, 2013
- 6 (amended December 2014 and July 2016). The Permit required the county to adopt a revised
- 7 stormwater manual that is equivalent to Ecology's Storm Water Management Manual for
- Western Washington (SWMMWW) (2012, amended 2014) that was adopted on November 24, 8
- 9 2015 and became effective January 8, 2016; and,

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- WHEREAS, to update the Clark County Stormwater Manual 2015, in February 2016 Clark County commenced an errata outreach effort that has included: 1) a Technical Advisory Committee consisting of local engineers, design specialists and Phase II permittees, 2) local
- 13 stakeholders from the general engineering/stormwater community.; and, 3) internal staff 14
- stakeholders via Clark County Stormwater implementation forum meetings; and, 15

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WHEREAS, on September 20 and 27, 2016, Clark County Public Works Department published a SEPA determination of non-significance (DNS), and by the end of the comment period, no person provided comments regarding the DNS to the county; and,

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WHEREAS, on October 5, 2016, Clark County published legal public notice of the Clark County Planning Commission public hearing to be held October 20, 2016; and,

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WHEREAS, on October 6, 2016, the Clark County Planning Commission held a work session concerning the Permit update at a public meeting, and on October 20, 2016, held a public hearing at which it took public testimony. At that public hearing, the Planning Commission deliberated and developed its recommendations to the Board; and,

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WHEREAS, on November 7, 2016, Clark County published legal public notice that the Board would hold a public hearing on November 22, 2016 to consider the minor manual updates; and.

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WHEREAS, on November 22, 2016, the Board held a public hearing at which it took public testimony and considered the Planning Commission's recommendations; and,

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WHEREAS, the Board finds that it is in the best public interest for the health, safety and welfare of the citizens of Clark County to adopt the errata manual revisions set forth herein to the Clark County Stormwater Manual 2015 – September 2016 Errata:

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BE IT HEREBY ORDERED, RESOLVED AND DECREED BY THE BOARD OF COUNTY COUNCILORS OF CLARK COUNTY, STATE OF WASHINGTON AS FOLLOWS:

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Section 1. Amendatory.: Below is a summary of changes required to the Clark County Stormwater Manual 2015 adopted on November 24, 2015 (effective January 8, 2016), with strikeout/underline changes noted:

43 44 45

No.	Book	Section	Page	Change
1	All		A!I	Add Errata date stamp with Errata September 2016
2	All		Throughout	Update references to web links from

No.	Book	Section	Page	Change
110.	DOOK	Section	1 agc	"/environmental-services/" to "/public-
				works/"
3	All	Multiple	Throughout	Add the following line to blank pages with no text:
			This agree at	"This page intentionally left blank"
4	1	1.2.3	10	Line 2 – Update reference "Chapter 7 of this book" to
				"Chapter 7 of Book 2"
5	1	1.5.4	24	Line 9 − Update reference "Section 7.6" to "Section 7.7"
6	1	1.5.5	24	Line 14 – Update reference "Section 1.5.7.1" to "Section 1.5.7"
7	1	1.6.1	36	Line 18 – Update reference "Book 2, Chapter 9" to
				"referenced in Book 2 Introduction"
8	1	1.6.3	42	Line 4 – Add "No new development, redevelopment, or
				drainage project shall be allowed to materially increase or
	()			concentrate stormwater runoff onto an adjacent property
				or block existing drainage from adjacent lots."
9	1	1.6.4.1	42	Line 9 – Update reference "Section 7.6" to "Section
10		1.6.6	40	7.7"
10	1	1.6.6	43	Line 10 – Add "All private stormwater facilities that are
				gated and locked are required to have a double locking
				system for inspection purposes. It is preferred to use a
11	a	1.67	42	chain with a county lock and the private lock."
11	1	1.6.7	43	Add section 1.6.7: "1.6.7 Flood Plain Requirements
				In addition to the requirements of Chapter 40.420
				Flood Hazard Areas, any reduction of existing
				conveyance capacity, and any net loss of existing
				storage capacity, for the one hundred (100) year
				storm, are prohibited in FEMA Special Flood Hazard
				Areas (SFHA). This prohibition also applies to all areas
				within the limits of the existing one hundred (100) year
				floodplain, as determined by hydrologic/hydraulic computations, for all streams and manmade
				channels."
12	1	1.8.2	53	Line 20 (second paragraph) — Replace the word
12		1.0.2	73	"Preliminary" with "Final"
13	1	1.8.2	56 & 57	Last line on 56 – Update to include: "rain gardens, as
13		1.0.2	30 G 37	well as any stormwater system that includes or
				requires plantings in or over the proposed stormwater
				system, provide"
				Line 2 on 57– Update to include: "plant types, <u>sizes</u>
				and locations. Planting plan shall include proposed
				grading (1-foot contours) and stormwater system
				layout to ensure minimal conflict between plantings
				iayout to ensure minimal committ between plantings

1	No.	Book	Section	Dago	Change
14	MO.	DOOK	Section	Page	
Chapter 40.386" 1.8.2.3 60-61 Bullet list numbers 7-13 should be updated and renumbered to include the appropriate subordinate list for analysis (ad.) 1.8.2.3 62 Lines 18-23 - Remove the word "Chapter" from "CCC Chapter 40." 1 1.8.2.3 63 Update sections titles to eliminate duplicate Sections D.3 (update to D.4 and D.5) Update to D.4 and D.5) Update to D.4 and D.5 Update to Euclidea to "Meeting" to "Meet" Heading of table 2.3, remove "subject to Minimum Requirement #11 #9" 2.3.X 85-89 Subheadings - Change "2.3.1.X" to the next higher level of headings "2.3.X" under Section 2.3 Update reference to Combined Detention and Wetpoor Facilities should be to BMP D6.40 instead of T10.40. Update reference from T10.40 to D6.40 Update reference from T20.40 to D6.40	1.4	1	1022	Γ0	
15	14	1	1.8.2.3	58	·
renumbered to include the appropriate subordinate list for analysis (ad.) 16 1 1.8.2.3 62 Lines 18-23 - Remove the word "Chapter" from "CCC Chapter 40." 17 1 1.8.2.3 63 Update sections titles to eliminate duplicate Sections D.3 (update to D.4 and D.5) 18 1 TOC 77 Update references under 2.3 to create the correct subordinate sequence 19 1 2.2 80 Line 22 - Change the first word of the bullet from "Meeting" to "Meet" 20 1 Table 2.3 84 Heading of table 2.3, remove "subject to Minimum Requirement #1 - #9" 21 1 2.3.X 85-89 Subheadings - Change "2.3.1.X" to the next higher level of headings "2.3.X" under Section 2.3 22 1 2.5.5 105 Line 17 - Add "BMP T5.15" to heading 23 1 3.2.3.6 129 Update reference to Combined Detention and Wetpoor Facilities should be to BMP D6.40 instead of T10.40. 24 1 3.4.5.2 138 Update reference from T10.40 to D6.40. 25 1 3.4.5.3 139 Update reference from T10.40 to D6.40. 26 1 4.3.2.1 151 Line 13 - Correct the requirement from "eer" to "and" Cology's SWMMWW "Velume III" to "Book 2 Appendix 2-A" 27 1 6.3.4.1 174 Line 28 - Update reference from Book 4 to Book 3 28 1 6.4.9 183 Line 16 - Update reference from Book 4 to Book 3 29 1 Append. C-5 Line 1 - Update equation to bracket the first half of the formula 30 1 Append. E-1 Line 6 - add reference to Book 1	15	-	1022	50.51	
list for analysis (ad.) 16	15	1	1.8.2.3	60-61	·
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32 1 Append. E-1 Section 1 – update 3.2 to 2.2	32	1		E-1	Section 1 – update 3.2 to 2.2
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E South of the second of the					
34 1 Append. H-1 Update Guide Sheet 1, last paragraph to reference	34	1	Append.	H-1	Update Guide Sheet 1, last paragraph to reference
H Figure 1.4 instead of Figure 1.5		- 1256 F			

No.	Book	Section	Page	Change
35	1	Append.	H-5	In the Minimum Requirement 8 Checklist, Item B.,
		H		update the reference from Appendix 1-K to Appendix 1-H
36	1	Append.	H-5	Add the following question to the Checklist: "Does the
		Н		wetland provide habitat for threatened or endangered
				species? If yes complete the checklist below. If No
				Stop." Update the question bullets to change existing
				Ð to E and existing E to F.
37	1	Append. I	i-8	Lines 15 & 18 – Update groundwater assessment to
				"groundwater <u>depth</u> assessment"
38	1	Append. I	1-8	Lines 15 & 16 – add ", downspout full infiltration or rain
				garden" after the word pavement.
39	1	Append. I	I-11	Lines 15 & 16 – add to requirement: "No new
				development, redevelopment, or drainage project
				shall be allowed to materially increase or concentrate
				stormwater runoff onto an adjacent property or block
				existing drainage from adjacent lots."
40	1	Append. I	I-14	Eliminate Box 1.; change box 2. To <u>1.</u> ; change box 3. to
				2.; change box 4. to 3.; second orange box – Eliminate
				text "OR (optional) go to next question" as well as the
				dotted line to the No line; change box 5. to 4 and
				eliminate " and 2 ."; change box 6. to <u>5.</u> ; change box 7.
44	4		1.45	to <u>6.</u> ; and, change box 8. to box <u>7.</u>
41	1	Append. I	I-15	Eliminate Box 1 and update formatting (65% of site set
42	1	Append. I	I-32	aside as native vegetation?)
42	Τ.	Appellu. I	1-22	Fix formatting - Under the applicant line, eliminate the second line
43	1	Append. I	1-66	Fix formatting – eliminate the underline for "Users
				may reference the handbook"
44	1	Append. I	I-66	Replace bullets with numbers for <u>1-7</u>
45	1	Append. I	I-74	Lines 33 & 34 – Eliminate references to Section 2.5.5.3
				in Book 2 and Table 2.3. Replace with "infeasibility
				<u>criteria below</u> ."
46	2	1.3.1.1	8	Line 10 – Change reference from 1.5.2.2 to 1.5.5.2
47	2	ВМР	22	Line 19 – Change spelling of "course sands" to "coarse
	93.50	T5.10A		sands"
48	2	ВМР	33	Line 8 – Add the following to the limitations section:
		T5.10D		"Perforated stub outs do not provide pretreatment.
				Perforated stub outs are not allowed to drain into a
				subsurface detention or retention facility without first

No.	Book	Section	Page	Change
			The state of the s	connecting to a pretreatment BMP under Minimum
				Requirement #6."
49	2	ВМР	37	Line 27 – update reference to include punctuation:
		T5.11		BMP T5_10C
50	2	ВМР	43	Lines 13 & 14 – Update outdated reference from BMP
		T5.13		7.30 to BMP 5.14B; also eliminate an extra space after
				the closing parentheses.
51	2	ВМР	66 & 68	Line 8 – Update B MS to B <u>SM</u>
		T5.14B		Lines 18-23 – remove existing bullet information ["If
				the standard soil mix is used:"] and replace with
				"Option 1: If using the Bioretention Soil Mix
				recommended herein, the WWHM assumes a default
				infiltration rate of 12 inches per hour (15.24 cm/hr)."
				Lines 24-33 – remove existing bullet information ["If a
				custom soil mix is used"] and replace with "Option
				2: If creating a custom bioretention soil mix, Use ASTM
				D 2434 Standard Test Method for Permeability of
		8		granular Soils (Constant Head) with a compaction rate
				of 85 percent using ASTM D1557 Test Method for
				Laboratory Compaction Characteristics of Soil Using
		_		Modified Effort. The WWHM user must enter the
				derived value into WWHM using "View/Edit Soil
				Types" pull down menu and adjusting the Ksat value.
				After selecting option 1 or 2 above, determine the
				appropriate safety factor for the saturated hydraulic
				conductivity (Ksat). If the contributing area of the
				bioretention cell or swale is equal to or exceeds any of
				the following limitations: 5,000 square feet of
				pollution-generating impervious surface; 10,000
				square feet of impervious surface; ¾ acre of lawn and
			11	landscape, use 4 as the infiltration rate (Ksat) safety
-				factor. If the contributing area is less than all of the
				above areas, or if the design includes a pretreatment
				device for solids removal, use 2 as the Ksat safety
		1		factor. The WWHM has a field for entering the
	46			appropriate safety factor."
52	2	ВМР	77	Line 11 – Update reference for 2.5.3 Book 2 to Book <u>1</u> .
		T5.15		Line 13 – Replace bullet text "No run-on from pervious
				surfaces is allowed." with "Run-on from pervious
				surfaces is not allowed, except from minor or
				incidental pervious areas that cannot be directed
				elsewhere. Those areas must be fully stabilized before

No.	Book	Section	Page	Change
				discharging runoff to the pervious pavement."
53	2	ВМР	100	Line 10 – Update reference in cross-reference table to
		T5.30A		add
				"Book 1" to Section 2.5.3.
54	2	ВМР	109	Line 9 - Update reference in cross-reference table to
		T5.30B		add
				"Book 1" to Section 2.5.3.
55	2	ВМР	110	Line 22 – Update reference to include proper notation
		T5.30B		for "BMP T5.30 <u>A</u> "
59	2	BMP	113	Line 21 - Update reference to include proper notation
		T5.40		for "BMP T5.30 <u>A</u> "
60	2	ВМР	114	Line 8 – Update reference Figure from 9.11 to <u>1.14 in</u>
		T5.40		Book 1
		DAAD	116	
61	2	BMP	116	Line 1 – Add notation for the continuance of the cross
62	2	T5.41	165	reference table from the previous page.
62	2	BMP	165	Update Figure reference from Plan view to <u>Section</u> view.
63	2	T8.10 BMP	172	
05		T8.30	1/2	Line 13 – Update reference for BMP 9.40 to <u>T</u> 9.40
		16.50		
64	2	BMP	200	Line 13 – Update reference from BMP 17.30 to 5.14B
		T9.10		
65	2	ВМР	215	Line 15 – Update reference from BMP T7.30 to 5.14B
		T7.40		•
66	2	BMP 7.40	216	Line 2 - Update reference from BMP T7.30 to <u>5.14B</u>
67	2	ВМР	221	Line 9 – Update referenced figures from 4.27 and 4.28
		10.10	III-1	to <u>4.26 and 4.27</u>
68	2	5.1.1	250	After Line 6 – Add a new bullet: "Reference BMP D6.10
				and BMP 6.20 for landscape requirements at
				stormwater facilities."
69	2	5.1.1.3	251	Line 16 – Update the first sentence: "A facility to treat
				Pretreatment of stormwater influent for suspended
				solids must precede the is required for each infiltration
70		DNAD	202	facility."
70	2	BMP D.610	282	After line 4 – Add bullet: "10. Ensure that mature
		D.610		widths of plants are taken into consideration near
				access roads, pedestrian walkways or manmade
				structures. To reduce safety and maintenance
				liabilities, mature plant width should not overhang or encroach into these features."
				encroach into these leatures.

No.	Book	Section	Page	Change
71	2	ВМР	287	After line 6 – Add new section: "Landscaping 1. Refer
		D6.20		to BMP D6.10 for landscape requirements, as well as
				statements listed below. 2. Plantings directly above
				the detention tank system shall include only shallow
				rooted herbaceous perennials, low growing shrubs or
				grasses. Trees and shrubs should be avoided to
				minimize risk of roots impeding storage volume and
				capacity, as well as structural integrity of the system.
				Plantings should not include varieties that are water
				seeking such as sedges or rushes. 3. Avoid any
				plantings around the perimeter of detention tank that
				will cause root encroachment into the tank storage
				area. Large trees should be planted a minimum of 10'
				from edge of detention tank storage area."
72	2	ВМР	300	Line 13, second bullet – Update reference from 6.1.7
		D6.40		to 6.1. <u>4</u>
73	2	7.2	303	Add last bullet: No new development, redevelopment,
				or drainage project shall be allowed to materially
				increase or concentrate stormwater runoff onto an
				adjacent property or block existing drainage from
				adjacent lots.
74	2	BMP C209	400	Line 15 – Update reference from Section 7.6 to 7.7
75	2	Appendix	C-4	Line 16 – Update reference from "BMP T5.10B of
		С		Volume III - Chapter 3" to "BMP T5.10C of Book 2"
76	2	Appendix	C-4	Lines 34 & 36 – Update reference for BMPs in the last
		С		bullet from "Book 4" to "Book 2"
77	2	Appendix	C-13	Lines 26 & 27 – Update reference "explained in Book 1,
		С		Section 2. 2.1. 3" and "Book 1, Section 4.3.1.3" to "Book
				1, Section <u>2.3.1.4</u> "
78	2	Appendix C	C-14	Line 7 – Update reference from BMP T5.10B to C
79	2	Appendix	C-15	Lines 9 & 13 – Add a period at the end of the
'3		C		sentences.
				Jenethoes.
80	2	Appendix	D-1	Line 6 – Update reference from "See Appendix 1-D" to
	_	D		"See Appendix 1-C"
81	2	Appendix	D-1	Line 20 – Update reference for Site Characterization
	_	D		Study from "Section 4.4" to "Book 1, Section 4.3.1.2"
82	2	Appendix	D-1	Line 25 – Add "Book 1," to reference of Section 4.4,
-		D	_	Table 4.1
L				

No.	Book	Section	Page	Change
83	2	Appendix	D-1	Line 26 – Update reference for CARA sites from
		D		"Section 4. 2.2 " to "Section 4. <u>3.1.1</u> "
84	2	Appendix	D-2	Line 24 – Update reference for coefficient of
		D		permeability from "Section 4. 5.2 " to "Section 4. <u>3.1.3"</u>
85	2	Appendix	D-2	Line 25 – Update reference for correction factors from
		D		"Section 4. 5.4 " to "Section 4. <u>3.1.3</u> "
86	3	2.1.3	9	Figure 2.1 - Picture caption — Left justify Source
				information and update to correct reference "Source:
		10		Fresh Look Mobil Power Wash"
87	3	2.1.3	10	Line 32 – Update reference to metal medallion from
				"Book 2 , Figure 9.1 " to "Book <u>1</u> , Figure <u>1.5</u> "
88	3	2.1.4	11	Figure 2.2 – Update photo source to correct source:
				"Source: <u>Brady Worldwide</u> "
89	3	S412	47	Line 28 – Update references from "Figures 2.6 and 2.6"
				to "Figures 2. <u>7</u> and 2. <u>8</u> "
90	3		52	Eliminate duplicate statement: "This page intentionally
				left blank."
91	3	S419	63	Line 29 – Update statement "or cover ing the
			5	storm"
92	3	S426	7 9	Figure 2.11 – Update photo source to correct source:
00		A 11		"Source: Brady Worldwide"
93	3	Appendix 3-A	A-17	Line 15 – <u>Insert tab</u> to properly align "Commercial Car and Truck Washes"
94	3	Appendix	E-1	Second to last line – Update reference from "Table
		3-E		6.6" to "Table <u>E</u> .6"
95	4		6	Line 10 – Update "Biofiltration wale" to "Biofiltration
				<u>s</u> wale"
96	4	Detention	44	Lines 23 and 24 – Update the word "Tree" to
		Pond		"Vegetation" to clarify that all vegetation should be
				inspected to minimize impact to inspection access.
97	4	Closed	73 & 74	After Line 44, add a new row in the table: "Vegetation
		Detention		Encroachment - Root encroachment of tree or shrub
		System		have impacted function or integrity of wetvault
				Roots are found in vault to be removed and repair
		,	*1 *1	vault."
98	4	Wet Vault	77	After Line 31, add a new row in the table: "Vegetation
				Encroachment - Root encroachment of tree or shrub
				have impacted function or integrity of wetvault
				Roots are found in vault to be removed and repair
				vault."

No.	Book	Section	Page	Change	
99	4	Modular	79	After Line 41, add a new row in the table: "Vegetation	
		Detention		Encroachment - Root encroachment of tree or shrub	
		Systems		have impacted function or integrity of wetvault	
				Roots are found in vault to be removed and repair	
				<u>vault.</u> "	
End o	End of summary				

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2 Section 2. Effective Date. This ordinance shall take effect at midnight, ten days after adoption of this ordinance. 3

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5 ADOPTED this day of November, 2016	ි.
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6		BOARD OF COUNTY COUNCILORS
7	ATTEST:	
8		Ву:
9	Clerk of the Board	Mark Boldt, Chair
10		
11	Approved as to form only:	By:
12	ANTHONY F. GOLIK	Jeanne E. Stewart, Councilor
13	Prosecuting Attorney,	
14	Λ	By:
15		Tom Mielke, Councilor
16	L'huisting l'orde	
17	MIGHAL COOK	By:
18	Christine Cook,	Julie Olson, Councilor
19	Sr. Deputy Prosecuting Attorney	
20		By:
21		David Madore, Councilor