1	ORDINANCE NO
2	AN ODDING ANCE (a second and an all in Charles & (EDOCION AND SEDDMENT CONTROL)
3 4	AN ORDINANCE to amend and reordain Chapter 4 (EROSION AND SEDIMENT CONTROL) of Title 5 (TRANSPORTATION AND ENVIRONMENTAL SERVICES), of the Code of the
5	City of Alexandria, Virginia, 1981, as amended.
6	
7 8	THE CITY COUNCIL OF ALEXANDRIA HEREBY ORDAINS:
8 9	Section 1. That Chapter 4 of Title 5 of the Code of the City of Alexandria,
10	Virginia, 1981, as amended, be, and the same hereby is, amended and reordained to read as
11	follows:
12 13	(New language is underscored; deleted material is stricken)
13 14	(New language is <u>underscored</u> , deleted material is stricken)
15	CHAPTER 4 - Erosion and Sediment Control
16	
17 18	Sec. 5-4-1 Definitions.
19	As used in this chapter, and pursuant to 9VAC25-840, the following terms shall have the
20	meanings set forth below, unless the context requires a different meaning:
21	
22	(a) "Agreement in lieu of a plan" means a contract between the city and the owner which
23 24	specifies conservation measures which must be implemented in the construction or modification of a single family residences this contract may be executed by the
24 25	modification of a single-family residence; this contract may be executed by the Director in lieu of an erosion and sediment control plan.
23 26	Director in neu or an crosion and sediment control plan.
27	(b) "Alexandria Water Quality Volume" means the volume equal to the first one-half inch
28	of runoff multiplied by the impervious surface of the land development project. This
29	is separate and in addition to the state stormwater management water quality
30	requirement.
31	
32	(c)(b) "Applicant shall mean any person submitting an erosion and sediment control plan
33	or an agreement in lieu of a plan for approval or requesting the issuance of a permit,
34 35	when required, authorizing land-disturbing activities to commence.
36	
37	(d) "Certified inspector" means an employee or agent of the city who (i) holds a
38	certificate of competence from the Soil and Water Conservation Board in the area of
39	project inspection or (ii) is enrolled in the Board's training program for project
40	inspection and successfully completes such program within one year after enrollment.
41	
42	(e) "Certified plan reviewer" means an employee or agent of a VESCP authority who (i)
43	holds a certificate of competence from the Board in the area of plan review, (ii) is

44 45	enrolled in the Board's training program for plan review and successfully completes such program within one year after enrollment, or (iii) is licensed as a professional
45 46	engineer, architect, landscape architect, land surveyor pursuant to Article 1 (§ 54.1-
47	<u>400 et seq.) of Chapter 4 of Title 54.1, or professional soil scientist as defined in §</u>
48	54.1-2200.
49	
50	(f) "Certified program administrator" means an employee or agent of a VESCP authority
51	who (i) holds a certificate of competence from the Board in the area of program
52	administration or (ii) is enrolled in the Board's training program for program
53	administration and successfully completes such program within one year after
54	enrollment.
55	
56	(d)(g) "Director" shall means Tthe director of transportation and environmental services,
57	his designee or his duly authorized agent.
58	
59	(c)(h) "Erosion and sediment control plan," "conservation plan" or "plan," shall mean a
60	document containing material for the conservation of soil and water resources of an
61	unit or group of units of land. It may include appropriate maps, an appropriate soil
62	and water plan, inventory and management information with needed interpretations,
63	and a record of decisions contributing to conservation treatments. The plan shall
64	contain all major conservation decisions to assure that the entire unit or units of land
65	will be so treated to achieve the conservation objectives.
66	
67 (8	(e)(i)"Erosion impact source area" shall mean an area of land not associated with current
68 69	land- disturbing activity but subject to persistent erosion resulting in the delivery of sediment onto neighboring properties or into state waters. This definition shall not
09 70	apply to any lot or parcel of land of 10,000 square feet or less used for residential
70	purposes or to shorelines where the erosion results from wave action or other coastal
72	processes.
73	Processes
74	(f)(j) "Land-disturbing activity" for the purposes of this chapter shall mean any land
75	change which may result in soil erosion from water or wind and the movement of
76	sediments into state waters or onto lands in the commonwealth, including, but not
77	limited to, clearing, grading, excavating, transporting and filling of land.
78	
79	$\frac{(g)(k)}{(k)}$ "Natural channel design concepts" means the utilization of engineering analysis
80	and fluvial geomorphic processes to create, rehabilitate, restore, or stabilize an open
81	conveyance system for the purpose of creating or recreating a stream that conveys its
82	bankfull storm event within its banks and allows larger flows to access its bankfull
83	bench and its floodplain.
84	•

85 86 87 88 89	(h)(1) "Owner" shall mean the owner or owners of the freehold of the premises or of a lesser estate therein, a mortgagee or vendee in possession, an assignee of rents, a receiver, an executor, a trustee, a lessee or another person, firm or corporation in control of a property.
90 91 92	(i)(m) Peak flow rate" means the maximum instantaneous flow from a given storm condition at a particular location.
93 94 95	(j)(n) "Permittee" shall mean the person to whom the permit authorizing land-disturbing activities is issued or the person who certifies that the approved erosion and sediment control plan will be followed.
96 97 98 99 100 101	(k)(o) "Person" for the purposes of this chapter shall mean any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, county, city, town, or other political subdivision of the commonwealth, interstate body, or other legal entity.
102 103 104 105 106 107	(1)(p) "Plan-approving authority" shall mean the department of transportation and environmental services which shall be responsible for determining the adequacy of a plan submitted for land-disturbing activities on a n unit or group of units of lands and for approving plans.
107 108 109 110	(m)(q) "Runoff volume" means the volume of water that runs off the land development project from a prescribed storm event.
111 112 113	(n)(r) "State waters" shall mean all waters on the surface and or wholly or partially underground that is within or bordering the commonwealth or that is within the jurisdiction of the commonwealth.
114 115 116 117	(o) "Water Quality Volume" means the volume equal to the first one half inch of runoff multiplied by the impervious surface of the land development project.
117 118 119	(Intervening sections are unchanged.)
120 121	Sec. 5-4-3.1 Same—erosion impact source area.
122 123 124 125 126 127 128 129	Notwithstanding any contrary provision of this chapter, it shall be unlawful for any property owner to fail, neglect or refuse to implement an erosion and sediment control conservation plan, approved by the director, and within such reasonable time as the director shall specify, for any land designated by the director as an erosion impact source area.

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130	
131	Sec. 5-4-3.2 Wetlands mitigation banks.
132	
133	In accordance with the procedure set forth by $\S 62.1-44.15-51 + 10.1-563$ (E) of the Code of
134	Virginia which is herein incorporated, any person engaging in the creation and operation
135	of wetland mitigation banks in multiple jurisdictions, which have been approved and are
136	operated in accordance with applicable federal and state guidance, laws, or regulations
137	for the establishment, use, and operation of mitigation banks, pursuant to a permit issued
138	by the Department of Environmental Quality, the Marine Resources Commission, or the
139	U.S. Army Corps of Engineers, may, at the option of that person, file general erosion and
140	sediment control specification for wetland mitigation banks annually with the Virginia
141	Soil and Water Conservation Board (Board) for review and approval consistent with
142	guidelines established by the Board.
143	
144	(Intervening section is unchanged.)
145	
146	Sec. 5-4-5 Exceptions.
147	
148	The provisions of this chapter shall not apply to any construction, reconstruction, repair
149	or alteration of any building or structure when no land is disturbed and no trees, shrubs,
150	grass or vegetation is destroyed or removed, nor to any of the following:
151	grubb of vegetation is desiroyed of femoved, not to any of the fonowing.
152	(Intervening sections are unchanged.)
152	(intervening sections are unenanged.)
155	(1) Shore erosion control projects on tidal waters when the projects are approved by local
155	wetlands boards, the Marine Resources Commission <u>and/</u> or the U.S. Army Corps of
155	Engineers and located on tidal waters and within nonvegetated or vegetated wetlands
150	as defined in Title 28.2 of the Code of Virginia. However, any associated land that is
157	disturbed outside of this exempted area shall remain subject to the article and the
150	regulations adopted pursuant thereto.
160	regulations adopted pursuant increto.
161	(Intervening sections are unchanged.)
162	(Interventing sections are unenanged.)
162	
163 164	Sec. 5-4-6 Permits not to be issued without approved erosion and sedimentation control plan
165	when plan required by chapter.
	when plan required by chapter.
166 167	(a) No normit shall be issued to construct areast or alter any building or structure on any
167	(a) No permit shall be issued to construct, erect, or alter any building or structure on any
168	land within the city until a plan has been submitted and approved in accordance with
169 170	the provisions of this chapter and the applicant has certified in writing that the plan
170	will be followed. The person responsible for carrying out the plan shall provide the
171	name of an individual holding a certificate of competence to the program authority, as
172	provided by <u>§ 62.1-44.15:52</u> $\frac{10.1-561}{10.1-561}$, who will be in charge of and responsible for
173	carrying out the land disturbing activity. However, any plan-approving authority may
174	waive the certificate of competence requirement for an agreement in lieu of a plan for
175	construction of a single family residence. If a violation occurs during the land-

176 177 178 179 180 181 182 183	disturbing activity, then the person responsible for carrying out the agreement in lieu of a plan shall correct the violation and provide the name of an individual holding a certificate of competence, as provided by $\S 62.1-44.15:52 \ 10.1-561$. Failure to provide the name of an individual holding a certificate of competence prior to engaging in land-disturbing activities may result in revocation of the approval of the plan and the person responsible for carrying out the plan shall be subject to the penalties provided in this article.
184 185	(Subsequent section is unchanged.)
186 187 188	Sec. 5-4-7 Minimum criteria; city handbook.
189 190	a) The director shall administer and enforce the provisions of this chapter.
191 192 193 194 195 196 197 198 199	b) This chapter, the erosion and sediment control regulations of the Department of <u>Environmental Quality Conservation and Recreation Division of Soil and Water</u> <u>Conservation (VR 625-02-00) effective March 22, 1995, [9 VAC 25-8404 VAC 50- 30-10 et seq.], and the "Virginia Erosion and Sediment Control Handbook, Third Edition, 1992, which are incorporated herein by reference, shall be an integral part of the city's erosion and sediment control program and shall comprise the city's "Erosion and Sediment Control Handbook." The text of these regulations is on file in the office of the director.</u>
200 201 202 203	c) In addition to the minimum requirements for controlling erosion and sedimentation for land-disturbing activities which are contained in VR 625-02-00 '4 [4 VAC 50-30- 409 VAC25-840 , the following additional minimum requirements shall apply:
203 204 205	(Subsequent sections are unchanged.)
203 206 207	(4) The following additional stormwater management criteria shall apply:
208 209 210 211 212 213 214 215 216 217	A stormwater management plan consistent with the requirements of Section 13-109(F) in Article XIII of the Alexandria Zoning Ordinance (the Environmental Management Ordinance and the Virginia Stormwater Management Program (VSMP) regulations shall apply. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of this section shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 62.1-44.15:24 et seq.) and attendant regulations, unless such land-disturbing activities are in accordance with the grandfathering provisions of the VSMP regulations.
218	

219	a. A stormwater management plan shall be developed so that, from the site,
220	the postdevelopment peak runoff rate from a two-year and a 10-year
221	storm, considered individually, shall not exceed their respective
222	predevelopment rates. The predevelopment and postdevelopment peak
223	runoff rates must be verified by engineering calculations. Within the Four
224	Mile Run Watershed, postdevelopment peak runoff during a 100-year
225	frequency storm shall not increase the peak runoff of the Four Mile Run
226	Flood Control Channel as required by the city's contract with the United
227	States Army Corp of Engineers.
228	b. b. 1. Concentrated stormwater runoff leaving a development site must be
229	discharged directly into an adequate channel. If there is no adequate
230	channel one must be constructed to convey stormwater to the nearest
231	adequate channel. Newly constructed channels and conduits carrying a
232	flow of 1,000 or more cubic feet per second shall be designed for a 100-
233	year storm frequency and newly constructed channels and conduits
234	carrying a flow of less than 1,000 cubic feet per second shall be designed
235	for a 10-year storm frequency.
236	e. 2.
237	d. An "adequate channel" shall be defined as a natural or man-made channel
238	or pipe which is capable of conveying the runoff from a two year storm or
239	a 10 year storm, considered individually, without overtopping its banks or
240	eroding after development of the site in question. A receiving channel may
241	also be considered adequate at any point where the total contributing
242	drainage area is at least 100 times greater than the drainage area of the
243	development site in question or, where it can be shown that the peak rate
244	of runoff from the site for a two-year and a 10-year storm, considered
245	individually, will not be increased after development.
246	e. <u>3.</u>
247	f. In accordance with, § 10.1-561 of the Code of Virginia, stream restoration
248	and relocation projects that incorporate natural channel design concepts
249	are not man made channels and shall be exempt from any flow rate
250	capacity and velocity requirements for natural or man-made channels.
251	g. 4.
252	h. In accordance with § 10.1-561 of the Code of Virginia, any land disturbing
253	activity that provides for stormwater management intended to address any
254	flow rate capacity and velocity requirements for natural or manmade
255	channels shall satisfy the flow rate capacity and velocity requirements for
256 257	natural or manmade channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours: (ii) detain and release
257	water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year,
258	24-hour storm; and (iii) reduce the allowable peak flow rate resulting from
260	the 1.5, 2, and 10 year, 24-hour storms to a level that is less than or equal

261 262 263 264 265 266 267	to the peak flow rate from the site assuming it was a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or manmade channels.
267 268	(Subsequent sections are unchanged.)
269	(
270	(5) Runoff rate and channel adequacy must be verified with engineering
271	calculations to the satisfaction of the director.
272	
273	(6) All channel improvements or modifications must comply with all applicable
274	laws and regulations.
275	
276	(7) If the applicant chooses an option which includes stormwater detention, the
277	<u>applicant must provide the city with a plan for maintenance of the detention</u>
278	facilities. The plan shall set forth the maintenance requirements of the facility
279	and the party responsible for performing the maintenance. The responsible
280	party may be an individual, organization or the city, whichever has consented
281 282	to carry out the maintenance. If the designated maintenance responsibility is with an individual or organization other than the situ a maintenance.
282	with an individual or organization other than the city, a maintenance agreement should be executed between the responsible party and the city.
283	agreement should be executed between the responsible party and the city.
285	(e) The owner or developer may continue to discharge stormwater that has not
285	been concentrated (sheet flow) onto lower lying property if:
280	1. the peak flow rate for a 10 year frequency storm after development does
288	not exceed the predevelopment peak flow rate;
289	2. the increase in total volumes of runoff caused by the development will
290	not have an adverse impact on the lower-lying property; and
291	3. there will be no exacerbation of existing drainage problems on the lower-
292	lying or other downhill property.
293	Tynig of other downnin property.
294	(5)(8) Stabilization of waterways and outlets. All on-site stormwater conveyance
295	channels shall be designed and constructed to withstand the expected velocity
296	of flow from a 10-year frequency storm without erosion. Stabilization
297	adequate to prevent erosion must also be provided at the outlets of all pipes
298	and paved channels. Energy dissipators shall be installed as required by the
299	director.
300	
301	(6)(9) Working in or crossing watercourses. Construction vehicles should be kept
302	out of watercourses to the extent possible. Where in-channel work is
303	necessary, precautions must be taken to stabilize the work area during

204	
304	construction to minimize erosion. The channel (including bed and banks) must
305	always be re-stabilized immediately after in-channel work is completed.
306	
307	(7)(10) Underground utility lines shall be installed in accordance with the
308	following standard in addition to other applicable criteria: no more than 100
309	feet of trench are to be opened at one time.
310	
311	(8)(11) Maintenance. All temporary and permanent erosion and sediment control
312	practices must be maintained and repaired as specified in $\frac{VR 625 02 00 \$}{VR 625 02 00 \$}$
313	69VAC25-840-60 <u>.</u> 4 VAC 50-30-60].
314	
315	(9)(12) Submission of an Erosion and Sediment Control Plan to the city is a grant
316	of unlimited right of entry to the property to officials or agents of the city for
317	the purposes of determining adequacy of the proposed plan and inspection of
318	land-disturbing activities for compliance with the approved plan.
319	fund distaroning douvines for compliance with the approved plant
320	(d) The "Virginia Erosion and Sediment Control Handbook, Third Edition, 1992" and
320	(d) The "virginia Erosion and Sedment Control Handbook, Third Edition, 1992 and the tree planting and preservation regulations authorized by 11-410(CC)(1) of
321	the Zoning Ordinance of the City of Alexandria, and known as the city's
322	Landscape Guidelines, shall be used by any applicant making a submittal under
323 324	this chapter and by the director in his or her review and consideration of the
324	adequacy of <u>landscaping elements included in</u> any erosion and sediment control
525	auguacy of fandscaping elements included in any erosion and seminem control
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326	plan submitted.
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350	(Subsequent sections are unchanged.)
351	
352	
353	Section 2. That this ordinance shall become effective upon the date and at the time of its
354	final passage.
355	
356	WILLIAM D. EUILLE
357	Mayor
358	
359	Introduction:
360	First Reading:
361	Publication:
362	Public Hearing:
363	Second Reading:
364	Final Passage:
365	