Agenda Item #: 48

# PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

# AGENDA ITEM SUMMARY

<b>Meeting Date:</b>	July 21, 2009
Meeting Date.	July 21, 2007

( ) Consent( ) Workshop

() Regular (X) Public Hearing

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Department

Submitted By: Submitted For: Environmental Resources Management Environmental Resources Management

## **I. EXECUTIVE BRIEF**

Motion and Title: Staff recommends motion to adopt: an Ordinance of the Board of County Commissioners of Palm Beach County, Florida, to be known as the Palm Beach County Petroleum Contamination Cleanup Criteria Ordinance; repealing Palm Beach County Code, Sections 11-291 through 11-311 (Ordinance No. 2003-021); providing for a Short Title and Applicability; providing for Authority; providing for a Purpose; providing a Supplement to Federal and State Law; providing for Definitions; providing for Adoption of Florida Administrative Code by reference; providing for Violations, Enforcement, Penalties; providing for Repeal of Laws in Conflict; providing for Savings Clause; providing for severability; providing for inclusion in the Code of Laws and Ordinances; providing for an effective date.

**Summary:** This Ordinance was advertised on June 23, 2009, in the Palm Beach Post for public hearing on July 21, 2009; it replaces Countywide Ordinance No. 2003-021 which was approved by the Board of County Commissioners (BCC) on May 20, 2003 and the Department of State on May 23, 2003. The new Ordinance adopts State regulations for Petroleum Contamination Site Cleanup Criteria, Chapter 62-770, Florida Administrative Code (F.A.C.), and the Contaminant Cleanup Target Levels, Chapter 62-777, F.A.C., into a County ordinance allowing existing language and future revisions by the State to be automatically adopted by reference. The most current amendments to Chapter 62-770, F.A.C., are incorporated by reference. Reference to Chapter 62-777, F.A.C., is being adopted for the first time. In accordance with PPM No. CW-O-041 (Countywide Ordinances: Applicability and Notification to Municipalities), a copy of the new Ordinance was forwarded to the Director of Public Affairs for their processing. Also in accordance with PPM No. CW-O-041, the new Ordinance was presented to the Palm Beach County League of Cities Environmental Subcommittee on February 11, 2009 and approved by the League's General Membership on March 25, 2009. <u>Countywide</u> (SF)

**Background and Policy Issues:** Presently, the County implements and provides enforcement through Ordinance No. 2003-021 and under contract with the State of Florida Department of Environmental Protection (DEP). This Revised Ordinance replaces Ordinance No. 2003-021, which was previously known as County Ordinance No. 2002-068. Prior to adoption of Ordinance No. 2002-068, the County enforced the provisions of Chapter (Continued on page 3)

#### Attachments:

- 1. New Ordinance
- 2. Ordinance No. 2003-021

Recommended by: <u>Feb</u>

Approved by:

Ribard E. Walnuty	6/28/09
Department Director	Date
Ath	7/13/09
County Administrator	Date

# **II. FISCAL IMPACT ANALYSIS**

#### Α. **Five Year Summary of Fiscal Impact:**

Fiscal Years	2009	2010	2011	2012	2013
Capital Expenditures				<u> </u>	
<b>Operating Costs</b>					
External Revenues					
<b>Program Income (County)</b>					
In-Kind Match (County)				···· , ··· ···	
NET FISCAL IMPACT	<u> </u>				
# ADDITIONAL FTE					
<b>POSITIONS (Cumulative)</b>					
Is Item Included in Current	t Budget?	Yes _		No	
<b>Budget Account No.:</b>	Fund	Department _	U	nit	
- +	Object				
	Program _				

#### **Recommended Sources of Funds/Summary of Fiscal Impact:** B.

 $\mathbf{X}$  There is no fiscal impact associated with this item.

mps

Petroleum cleanup activities are currently funded through yearly task assignment issued under DEP Contract No. GC629.

**C**. **Department Fiscal Review:** 

# **III. REVIEW COMMENTS**

OFMB Fiscal and /or Contract Dev. and Control Comments: А.

1 1 Klog 2015-20109 CN (20/29/09 **JEMB** 

Contract Development and Control 718/09

Legal Sufficiency: B.

**Assistant County Attorney** 

**C**. **Other Department Review:** 

**Department Director** 

### Background and Policy Issues: (Continued from page 1)

62-770, F.A.C., under contract with DEP since 1988. The recalcitrant facilities that are in noncompliance status with discharges that have contaminated Palm Beach County's groundwater, some since the program was contracted by the County, are the primary concern. These facilities and facilities that have future discharges of petroleum products will be pursued through the County regulatory process. Since this program is completely funded by the State, there should be no expenditure of County funds on this program. DEP provides yearly task assignments and periodic contracts and contract amendments to the County for this program. Upon approval of the new Ordinance by the BCC, the County Attorney's Office will provide to the DEP a certified copy of the Ordinance and Resolution and the County Attorney's opinion that the Ordinance was adopted in accordance with Chapter 125, Florida Statutes (F.S.), the Ordinance does not modify DEP Rule, and the Ordinance was adopted pursuant to Chapter 376.317, F.S. Ordinance No. 2002-068 was approved by the BCC on October 22, 2002. Ordinance No. 2003-021 was approved on May 23, 2003.

	Attachment 1
1 2 2	ORDINANCE NO. 2009
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A COUNTYWIDE ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA TO BE KNOWN AS THE PETROLEUM CONTAMINATION CLEANUP CRITERIA ORDINANCE; REPEALING PALM BEACH COUNTY CODE, SECTIONS 11-291 THROUGH 11-311 (ORDINANCE NO. 2003-021); PROVIDING FOR A SHORT TITLE AND APPLICABILITY; PROVIDING FOR A SHORT TITLE AND APPLICABILITY; PROVIDING FOR AUTHORITY; PROVIDING FOR A PURPOSE; PROVIDING A SUPPLEMENT TO FEDERAL AND STATE LAW; PROVIDING FOR DEFINITIONS; PROVIDING FOR ADOPTION OF FLORIDA ADMINISTRATIVE CODE BY REFERENCE; PROVIDING FOR VIOLATIONS, ENFORCEMENT, PENALTIES; PROVIDING FOR REPEAL OF LAWS IN CONFLICT; PROVIDING FOR SAVINGS CLAUSE; PROVIDING FOR SEVERABILITY; PROVIDING FOR INCLUSION IN THE CODE OF LAWS AND ORDINANCES; PROVIDING FOR CAPTIONS; AND PROVIDING FOR AN EFFECTIVE DATE.
22	WHEREAS, Chapter 125, Florida Statutes, authorizes the Board of County Commissioners
24	to enact ordinances and regulations necessary for the health, safety and welfare of the citizens and
25	visitors of Palm Beach County; and
26	WHEREAS, the Legislature of the State of Florida has declared in Chapter 376, Florida
27	Statutes, that the preservation of surface and ground water is a matter of the highest urgency and
28	priority and that the storage, transportation, and disposal of petroleum products is a hazardous
29	undertaking that poses a threat to the environment and water resources; and
30	WHEREAS, the Florida Department of Environmental Protection ("FDEP") adopted
31	Petroleum Contamination Site Cleanup Criteria in 1986; and
32	WHEREAS, Palm Beach County has enforced State petroleum cleanup rules under
33	contract with FDEP since 1988; and
34 <sup>.</sup>	WHEREAS, Palm Beach County, through its local enforcement procedures, has the ability
35	to carefully monitor and quickly respond to petroleum contamination at the local level; and
36	WHEREAS, it is the intent and policy of the Palm Beach County Board of County
37	Commissioners to ensure the continued health, safety, welfare, and quality of life for the existing
38	and future residents of Palm Beach County by protecting its valuable and critical water resources;
39	and
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1	WHEREAS, due to the sensitive nature of the drinking water supply, it is in the best
2	interest of Palm Beach County to monitor petroleum contaminated sites and sites with the potential
3	to produce petroleum contamination; and
4	WHEREAS, the Palm Beach County Board of County Commissioners finds that it is in the
5	best interest of the citizens of Palm Beach County to enact a countywide ordinance to provide for
6	local enforcement of petroleum cleanup standards and procedures; and
7	WHEREAS, the Palm Beach County Board of County Commissioners intends to repeal
8	Ordinance 2003-012 and to replace it with this Ordinance.
9	NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY
10	COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, that:
11	
12	Section 1. Short title and applicability.
13	(a) This Ordinance is referred to as the "Palm Beach County Petroleum Contamination
14	Cleanup Criteria Ordinance."
15	(b) The provisions of this Ordinance shall be effective within the unincorporated and
16	incorporated areas of the County.
17	
18	Section 2. Authority.
19	This Ordinance is adopted under the authority of Chapter 125, Florida Statues, and Chapter
20	376, Florida Statutes.
21 22	Section 3. Purpose.
23	The purpose of this Ordinance is to provide standards for assessment and remediation of
24	soil and/or groundwater contaminated with petroleum or petroleum products in order to provide
25	protection to the County's groundwater resources.
26 27	Section 4. Ordinance supplemental to federal and state law.
28	(a) The provisions of this Ordinance are not intended to and shall not be construed as
29	changing, modifying, amending, repealing, superseding, conflicting with, or substituting any
30	provisions or sections of the Florida Statutes or Florida Administrative Code related to petroleum
31	contamination site cleanup but shall be construed as supplemental and additional thereto. This
32	Ordinance shall not be construed as impairing the jurisdiction of any court within the County. This
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Ordinance shall be deemed to be an alternative or additional method for the County, its officers and agents, to effect the purposes of each of the state statutes and rules adopted by reference in section 5 of this Ordinance.

(b) Persons or entities subject to this Ordinance must comply with applicable state and federal regulations. Approvals received under this Ordinance do not qualify as local approval as may be required under state and/or federal rules unless the approval is expressly designated as approval for both this Ordinance and another applicable state or federal rule or regulation.

# Section 5. Definitions.

10 The following terms when used in this Ordinance shall have the meanings ascribed to them 11 in this section. In addition, the definitions and terms contained in Section 376.301, Florida 12 Statutes, and Section 62-770.200, Florida Administrative Code, as amended from time to time, are 13 hereby adopted and incorporated herein by reference. When not inconsistent with the context, 14 words used in the present tense include the future, words in the plural number include the singular 15 number, words in the singular number include the plural number, and the use of any gender shall be 16 applicable to all genders whenever the sense requires. The words "shall" and "will" are mandatory, 17 and the word "may" is permissive. Words not defined shall be given their common and ordinary 18 meaning.

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"County" means Palm Beach County.

20 "Director" means the director of the Palm Beach County Department of Environmental
21 Resources Management.

22 "ERM" means the Palm Beach County Department of Environmental Resources
23 Management.

24 "FDEP local program" means the Palm Beach County program established pursuant to a
25 contract pursuant to Section 376.3073, Florida Statutes, to assist the Florida Department of
26 Environmental Protection in the administration of the petroleum contamination site cleanup.

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## Section 6. Adoption of Florida Administrative Code by reference.

The following portions of the Florida Administrative Code, in their current form and as subsequently amended, are hereby adopted and incorporated by reference and shall be part of this Ordinance as if they were set out in their entirety:

- (1) Chapter 62-770, Florida Administrative Code, as may be amended.
- (2) Chapter 62-777, Florida Administrative Code, as may be amended.

# Section 7. Violations, enforcement; penalties.

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(a) Failure to comply with any requirement of this Ordinance shall constitute a violation of this Ordinance punishable as provided herein.

(b) Each day a violation of the provisions of this Ordinance continues is a separate violation.

9 (c) If a person or entity causing or responsible for any prohibited discharge fails to
10 immediately contain, remove, or abate the discharge to the satisfaction of the County, the County
11 may contain, remove, or abate the discharge and said responsible person or entity shall be liable for
12 all costs incurred by the County.

(d) If the owner of property that is subject to a violation of this Ordinance transfers the
ownership of such property between the time a notice of violation is served and the time of a
hearing involving a violation of this Ordinance and the alleged violator fails to disclose said
violation to the purchaser, the transfer creates a rebuttable presumption of fraud.

(e) Violations of the provisions of this Ordinance may be punished pursuant to ss. 403.121,
403.141, 403.161, Florida Statutes.

(f) Violations of the provisions of this Ordinance may be punished pursuant to Chapter
162, Florida Statutes, as a civil infraction with a maximum penalty as provided by law.

(g) The County may avail itself of any other legal or equitable remedy available to it,
 including without limitation, injunctive relief or revocation of any permit involved, in the
 enforcement of any provision of this Ordinance.

(h) Any person violating this Ordinance shall be liable for all costs incurred by the County
in connection with enforcing this Ordinance, including without limitation, attorneys' fees and
investigative and court costs.

(i) Violations of this Ordinance may be referred by ERM to the Groundwater and Natural
Resources Protection Board (GNRPB) for corrective actions and civil penalties. Any person who is
party to the proceeding before the GNRPB may appeal the Board's Order to the Circuit Court of
Palm Beach County in accordance with Florida Appellate Rules of Procedure. Funds collected
pursuant to administrative penalties levied by the GNRPB for violations of this Ordinance shall be

deposited in the Palm Beach County Pollution Recovery Trust Fund, or such other place as may be designated by Resolution of the Board of County Commissioners.

(j) In order to provide an expeditious settlement that would be beneficial to the enforcement of this Ordinance and be in the best interest of the citizens of the County, the Director of ERM is authorized to enter into voluntary consent (settlement) agreements with alleged violators. Any such agreement shall be a formal written consent agreement between ERM on behalf of Palm Beach County, by and through its Director, and any such alleged violators, and shall be approved as to form and legal sufficiency by the County Attorney's Office. The agreement can be entered into at any time prior to the hearing before the GNRPB.

(1) Conditions. Such consent agreements may be conditioned upon a promise by the alleged violator to:

(i) Bring the parcel into compliance with this Ordinance and maintain it in that condition;

(ii) Remit payment of a monetary settlement amount not to exceed the maximum amount allowed per violation, as set forth in this Ordinance;(iii) Remit payment for costs and expenses of the County for investigation and enforcement; and

(iv) Any other remedies and corrective action deemed necessary and appropriate by the Director of ERM to ensure compliance with this Ordinance.

(2) The consent agreement shall not serve as evidence of a violation of this
Ordinance and shall expressly state that the alleged violator neither admits nor
denies culpability for the alleged violations by entering into such agreement. In
addition, prior to entering into any such consent agreement, each alleged violator
shall be apprised of the right to have the matter heard by the GNRPB in accordance
with the provisions of this Ordinance and that execution of the agreement is not
required.

(3) The consent agreement shall be valid and enforceable in a court of competent jurisdiction in Palm Beach County and shall abate any enforcement proceedings available to ERM for so long as the terms and conditions of such agreement are

1	complied with. In the event the alleged violator fails to comply with the terms and
2	conditions set forth in the executed agreement, the Director of ERM may either:
3	(i) Consider the consent agreement void and pursue any remedies available
4	for enforcement of the applicable provisions of the Ordinance; or
5	(ii) Initiate legal proceedings for specific performance of the consent
6	agreement.
7	Funds collected pursuant to a consent agreement shall be deposited in the Palm Beach County
8	Pollution Recovery Trust Fund or such other place designated by Resolution of the Board of
9	County Commissioners.
10	(k) All remedies and penalties in this Ordinance are alternative and mutually exclusive.
11 12	Section 8. Repeal of laws in conflict:
13	Ordinance 2003-021 is hereby repealed as of the effective date of this Ordinance, and all
14	local laws and ordinances in conflict with any provisions of this Ordinance are hereby repealed to
15	the extent of such conflict.
16	
17	Section 9. Savings clause:
18	Notwithstanding anything to the contrary, all provisions of Palm Beach County Code
19	Section 11-291 through 11-311, codifying Palm Beach County Ordinance No. 2003-021, as
20	amended, are specifically preserved and remain in full force and effect for the limited purpose of
21	enforcing any alleged violations of said Code which occurred prior to its repeal or amendment.
22	
23	Section 10. Severability:
24	If any section, paragraph, sentence, clause, phrase, or word of this Ordinance is for any
25	reason held by a Court of competent jurisdiction to be unconstitutional, inoperative, or void, such
26	holding shall not affect the remainder of this Ordinance.
27	
28	Section 11. Inclusion in the code of laws and ordinances and scrivener's errors:
29	The provisions of this Ordinance shall become and be made a part of the Palm Beach
30	County Code. The sections of this Ordinance may be renumbered or relettered to accomplish such,
31	and the word "ordinance" may be changed to "section", "article", or other appropriate word. $\mathcal{I}$

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1	Correction of typographical errors that do not change the intent and meaning of the Ordinance may
2	be authorized by the County Administrator or his designee without the need of a public hearing by
3	filing a corrected or recodified copy of the same with the Clerk of Circuit Court.
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5	Section 12. CAPTIONS:
6	The captions, section headings, and section designations used in this Ordinance are for
7	convenience only and shall have no effect on the interpretation of the provisions of this Ordinance.
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9	Section 13. EFFECTIVE DATE:
10	The provisions of this Ordinance shall become effective upon filing with the Department of
11	State.
12	
13	APPROVED and ADOPTED by the Board of County Commissioners of Palm Beach
14	County, Florida, on this the day of, 2009.
15 16 17 18	SHARON R. BOCK, CLERK AND COMPTROLLER PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS
16 17 18 19 20	AND COMPTROLLER PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS
16 17 18 19 20 21 22 23 24 25	AND COMPTROLLER PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS
16 17 18 19 20 21 22 23 24 25 26 27 28 29	AND COMPTROLLER       PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS         By:       By:
16 17 18 19 20 21 22 23 24 25 26 27 28	AND COMPTROLLER       PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS         By:
<ol> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> </ol>	AND COMPTROLLER       PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS         By:
<ol> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> <li>32</li> </ol>	AND COMPTROLLER       PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS         By:
<ol> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> </ol>	AND COMPTROLLER       PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS         By:
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<ol> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> <li>32</li> </ol>	AND COMPTROLLER       PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS         By:

#### Attachment 2

# ORDINANCE NO. 2003-021

A COUNTYWIDE ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA TO BE KNOWN AS THE PALM BEACH COUNTY PETROLEUM CONTAMINATION CLEANUP CRITERIA ORDINANCE; PROVIDING FOR A SHORT TITLE, APPLICABILITY AND AUTHORITY; PROVIDING FOR A PURPOSE; PROVIDING FOR DEFINITIONS; PROVIDING FOR REFERENCED GUIDELINES; PROVIDING FOR GENERAL CONDITIONS; PROVIDING FOR CONTAMINATION REPORTING; PROVIDING FOR SOURCE REMOVAL; PROVIDING FOR QUALITY ASSURANCE REQUIREMENTS; PROVIDING FOR PROFESSIONAL CERTIFICATIONS; PROVIDING FOR SITE ASSESSMENT; PROVIDING FOR FATE AND TRANSPORT MODEL REQUIREMENTS; PROVIDING FOR RISK ASSESSMENT; PROVIDING FOR NO FURTHER ACTION; PROVIDING FOR NATURAL ATTENUATION; PROVIDING FOR ACTIVE REMEDIATION; PROVIDING FOR POST ACTIVE REMEDIATION MONITORING; PROVIDING FOR TIME SCHEDULES; PROVIDING FOR NOTICES; PROVIDING FOR FORMS; PROVIDING FOR FEES; PROVIDING FOR VIOLATIONS, ENFORCEMENT, PENALTIES; PROVIDING FOR REPEAL OF LAWS IN CONFLICT; PROVIDING FOR SEVERABILITY; PROVIDING FOR INCLUSION IN THE CODE OF LAWS AND ORDINANCES; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Chapter 125, Florida Statutes authorizes the Board of County Commissioners to enact those regulations necessary for the health, safety and welfare of the citizens and visitors of Palm Beach County; and

WHEREAS, the State of Florida enacted the Petroleum Contamination Site Cleanup Criteria in 1986; and

WHEREAS, Palm Beach County has enforced the State Rules under contract with the Florida Department of Environmental Protection since 1988; and

WHEREAS, the State of Florida, through its Department of Environmental Protection, funds Palm Beach County's local Petroleum Cleanup program; and

WHEREAS, Palm Beach County, through its local enforcement procedures, has the ability to carefully monitor and quickly respond to petroleum contamination at the local level; and

WHEREAS, it is the intent and policy of the Board of County Commissioners to ensure the continued health, safety, welfare, and quality of life for the existing and future residents of Palm Beach County by protecting its valuable and critical water resources; and

WHEREAS, due to the sensitive nature of the drinking water supply, it is in the best interest of Palm Beach County for continued monitoring of petroleum contaminated sites; and

WHEREAS, the Board of County Commissioners of Palm Beach County finds that it is in the best interests of the citizens of Palm Beach County to enact a countywide ordinance for local enforcement of petroleum cleanup standards and procedures; and

WHEREAS, Palm Beach County intends to amend its Petroleum Storage Systems Ordinance at such time as the State amends its Rules.

# NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, THAT:

## Section 1 SHORT TITLE: APPLICABILITY: AUTHORITY

- 1.01 This Ordinance shall be known as the "Palm Beach County Petroleum Contamination Cleanup Criteria Ordinance."
- 1.02 The cleanup criteria contained in this Ordinance, except as described in Section 17, shall apply to any cleanup of a site contaminated with petroleum or petroleum products. The cleanup criteria contained in this Ordinance shall not apply to the following:
  - (a) Petroleum or petroleum products contaminated with significant quantities of other substances;
  - (b) Any refined derivatives or by-products of crude oil, natural gas, or other naturally occurring hydrocarbons, except those defined as petroleum products in Section 376.301, F.S.; or
  - (c) Any discharge of petroleum or petroleum products of less than 25 gallons onto a pervious surface, as long as the discharge is removed and properly treated or properly disposed, or otherwise remediated, so that no contamination from the discharge remains on-site.
- 1.03 Where a Consent Order has been entered into prior to the effective date of this Ordinance for assessment and rehabilitation of a site, compliance with terms of the Consent Order shall constitute compliance with the provisions of this Ordinance. Nothing in this Ordinance shall preclude entry of a Consent Order for the rehabilitation of a petroleum contamination site as long as the Consent Order adopts the cleanup criteria of Chapter 62-770, F.A.C. or this Ordinance as the Orders for Corrective Action.
- 1.04 ERM will accept Final Orders issued by the Department in accordance with Chapter 62-770, F.A.C., as conclusive on the propriety and sufficiency of plans, reports, or other submittals.
- 1.05 All provisions of this Ordinance shall be effective within unincorporated and incorporated Palm Beach County and following Chapter 62-770, Florida Administrative Code (F.A.C.), which sets restrictions, conditions, constraints and prohibitions to help protect the water resources of Palm Beach County.
- 1.06 This Ordinance is adopted under the authority of Article VIII, Section 1, of the Florida Constitution, Chapter 125, Florida Statutes (F.S.), Sections 376.3073 and 376.317 F.S., and the Palm Beach County Charter.
- 1.07 This Ordinance is intended to be a supplement to existing state and federal petroleum cleanup criteria regulations. Responsible parties subject to this Ordinance must still comply with applicable state and federal regulations. Further, approvals received under this Ordinance do not qualify as local approval required under state and/or federal rules, unless the approval is expressly designated as approval for both this Ordinance and another applicable state or federal rule or regulation.

#### Section 2 PURPOSE

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 The purpose of this Ordinance is to provide standards for assessment and remediation of soil and/or groundwater contaminated with petroleum or petroleum products in order to provide protection to Palm Beach County's groundwater resources.

#### Section 3 DEFINITIONS

All words and phrases defined in Section 376.301, F.S., shall have the same meaning when used in this Ordinance unless the context clearly indicates otherwise. The following words and phrases used in this Ordinance shall, unless the context clearly indicates otherwise, have the following meanings:

- 3.01 "Action level" means a specified concentration of a petroleum products' contaminant of concern that, if exceeded during natural attenuation monitoring or post active remediation monitoring, may require initiation of additional site assessment or active remediation. Action levels are established during the approval process for Natural Attenuation Monitoring Plans pursuant to Section 14, and Post Active Remediation Monitoring Plans pursuant to Section 16, and are not equivalent to cleanup target levels.
- 3.02 "Additive effect" means a scientific principle that the toxicity that occurs as a result of exposure is the sum of the toxicities of the individual chemicals to which an individual is exposed.
- 3.03 "Antagonistic effect" means a scientific principle that the toxicity that occurs as a result of exposure is less than the sum of the toxicities of the individual chemicals to which an individual is exposed.
- 3.04 "Background concentrations" means concentrations of petroleum products' contaminants of concern that are naturally occurring in the groundwater, surface water, soil or sediment in the vicinity of the site.
- 3.05 "Contaminated" means the presence of petroleum or petroleum products or their chemical constituents in surface water, groundwater, soil, sediment, or upon the land, in quantities or concentrations that may result in exceedances of the applicable cleanup target levels specified in Chapter 62-777, F.A.C., or water quality standards in Chapters 62-3, 62-302, 62-520 or 62-550, F.A.C., or in quantities or concentrations that may result in contaminated sediment.
- 3.06 "Contaminated sediment" means sediment that is contaminated with petroleum or petroleum products or their chemical constituents to the extent that contamination may be harmful to human health or the environment as determined by the concentrations of the petroleum or petroleum products' contaminants of concern, actual circumstances of exposure, diversity studies, toxicity testing or other evidence of harmful effects, as applicable. (Refer to the Development and Evaluation of Sediment Quality Assessment Guidelines, Volumes 1-4, dated November 1994, for guidance on the evaluation of concentrations of petroleum products' contaminants of concern and sediment quality conditions.)
- 3.07 "Contaminated soil" means soil that is contaminated with petroleum or petroleum products or their chemical constituents to the extent that applicable soil cleanup target levels specified in Chapter 62-777, F.A.C., are exceeded.
- 3.08 "Contamination" refer to the definition for "contaminated."
- 3.09 "Department" refers to the State of Florida Department of Environmental Protection (FDEP).
- 3.10 "Discharger" means the person who has dominion or control over the petroleum or petroleum products at the time of the discharge into the environment.

3.11 "Discovery" means:

	(8)	Observance or detection of free product in boreholes, wells, open drainage ditches, open excavations or trenches or on nearby surface water, or petroleum or petroleum products in excess of 0.01 foot in thickness in sewer lines, subsurface utility conduits or vaults, unless the product has been removed and it was confirmed that a release into the environment did not occur;
	<b>(b)</b>	Observance of visually stained soil or odor of petroleum products resulting from a discharge of used oil equal to or exceeding 25 gallons on a pervious surface;
	(c)	Discharges of petroleum or petroleum products equal to or exceeding 25 gallons on a pervious surface;
	(đ)	Results of analytical test on a groundwater sample that exceed the cleanup target levels referenced in Chapter 62-777, F.A.C., Table I, groundwater criteria column; or
	(c)	Results of analytical test on a soil sample that exceed the lower of the direct exposure residential cleanup target levels and leachability based on groundwater criteria cleanup target levels specified in Chapter 62-777, F.A.C., Table II.
3.12	Exam	incering control" means a modification to a site to reduce or eliminate the potential sigration of, and exposure to, petroleum products' contaminants of concern. sples of modifications include physical or hydraulic control measures, capping, of-use treatments, or slurry walls.
3.13	"ERN Mana	f" refers to the Palm Beach County Department of Environmental Resources
3.14	analy produ millic Keros analy the he split i (68°F. One o the un be det instru- of that detect interfe moist manuf	pasively contaminated soil" (unless laboratory results verify that the organic vapor sis data are not relevant), means soil saturated with petroleum or petroleum ets or soil that causes a total corrected hydrocarbon measurement of 500 parts per in (ppm) or higher for Gasoline Analytical Group or 50 ppm or higher for sene Analytical Group. Readings shall be obtained at the site on an organic vapor sis instrument with a flame ionization detector in the survey mode upon sampling adspace in half-filled, eight-ounce or 16-ounce jars. Each soil sample shall be no two jars, the two samples shall be brought to a temperature of between 20°C. ) and 32°C. (90°F.) and the readings shall be obtained five minutes thereafter. If the readings shall be obtained with the use of an activated charcoal filter unless filtered reading is non-detect. The total corrected hydrocarbon measurement shall ermined by subtracting the filtered reading from the unfiltered reading, ments with a photo ionization detector may be used after a determination is made it instrument's equivalent response to an instrument with a flame ionization or. Photo ionization detectors shall not be used in situations where humidity will are with the instruments' sensitivity (including periods of rain, measuring wet or soil). Analytical instruments shall be calibrated in accordance with the facturer's instructions.
3.15	"Free thickn	product" means petroleum or petroleum product in excess of 0.01 foot in ess, measured at its thickest point, floating on surface water or groundwater.
3.16	"Gaso cquiva	line Analytical Group" means aviation gasoline, gasohol, and motor gasoline or lient petroleum products.
3.17	"Grou satural	ndwater" means water beneath the surface of the ground within a zone of ion, whether or not flowing through known or definite channels.

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 "Innovative technology" means a process that has been tested and used as a treatment for contamination, but lacks an established history of full-scale use and information about its cost and how well it works sufficient to support prediction of its performance under a variety of operating conditions. An innovative technology is one that is undergoing pilot-scale treatability studies, which usually are performed in the field or the laboratory and require installation of the technology, and which provide performance, cost, and design objectives for the technology prior to full scale use.

3.19 "Institutional control" means a restriction on use of, or access to, a site to eliminate or minimize exposure to petroleum products' contaminants of concern. Examples of institutional controls include deed restrictions, use restrictions, or restrictive zoning.

3.20 "Kerosene Analytical Group" means diesel, Jet-A, Jet-B, JP-4, JP-5, and kerosene or equivalent petroleum products.

3.21 "Monitoring well" means a well constructed with a surface seal and a sand filter pack in accordance with accepted design practices in order to provide for the collection of representative groundwater samples for laboratory analyses. Such wells may also be used to detect the presence of free product or collect water-level elevation data to aid in determining the direction of groundwater flow.

- 3.22 "Natural attenuation" means an approach to site rehabilitation that allows natural processes to contain the spread of contamination and reduce the concentrations of petroleum products' contaminants of concern in contaminated groundwater and soil. Natural attenuation processes may include the following: sorption, biodegradation, chemical reactions with subsurface materials, diffusion, dispersion, and volatilization.
- 3.23 "Petroleum contamination site" means any contiguous land, surface water, and groundwater areas upon or into which a discharge of petroleum or petroleum products has occurred or for which evidence exists that such a discharge has occurred.

3.24 "Petroleum products' contaminants of concern" means the contaminants listed in Table A in Chapter 62-770, F.A.C. and similar chemicals found in additives, provided the contaminants are present as a result of a discharge of petroleum or petroleum products.

- 3.25 "Piezometer" means a permanent or temporary well that may be designed and constructed without the surface scaling or sand filter pack requirements of a monitoring well. This type of well is primarily used to detect the presence of free product or collect water-level elevation data to aid in determining the direction of groundwater flow.
- 3.26 "Plume" means the portion of an aquifer or aquifers in which groundwater contamination by petroleum products' contaminants of concern above applicable cleanup target levels and background concentrations has been detected.
- 3.27 "Priority pollutant" means any compound listed in 40 CFR Part 122, Appendix D, Tables II through IV.

3.28 "Product recovery" means the removal of free product.

3.29 "Quiescent sampling technique" is a sampling method for groundwater that consists of a low flow purge (less than or equal to one liter per minute) and collection of samples at the same low flow within six hours of purging. The purging and sampling shall be performed with pumps that cause the least disturbance to the groundwater during installation, use and removal (for example, bladder pumps, peristaltic or variable speed submersible pumps).

3.30 "Real property owner" means the person that is vested with ownership, dominion, or legal or rightful title to the real property.

3.31	"Reportable quantity" means a discharge of petroleum or petroleum products equal to or exceeding 25 gallons on a pervious surface.	
3.32	"Responsible party" means the facility owner, the facility operator or the discharger.	
3.33	"Sediment" means the unconsolidated solid matrix occurring immediately beneath any surface water body. The surface water body may be present part or all of the time.	
3.34	"Site" refer to the definition for "petroleum contamination site."	
3.35	"Site rehabilitation" means the assessment of site contamination and the remediation activities that reduce the levels of contaminants of concern at a site through accepted treatment methods to meet the cleanup target levels established for that site.	
3.36	"Soil saturated with petroleum or petroleum products" means soil observed to contain petroleum or petroleum products that drain from the soil when it is handled or squeezed, or that create streaks of petroleum or petroleum products on excavation tools or on plastic sheeting upon exposure to the soil.	
3.37	"Surface water" includes rivers, lakes, streams, springs, impoundments, canals and all other water upon the surface of the earth, whether contained in bounds created naturally or artificially, or diffused. Stormwater and wastewater process water retention or treatment facilities, and canals and trenches that are integral to such facilities, that are not connected to other surface water, are not included in the definition of surface water.	
3.38	"Synergistic effect" means a scientific principle that the toxicity that occurs as a result of exposure is more than the sum of the toxicities of the individual chemicals to which an individual is exposed.	
3.39	"Temporary point of compliance" is the boundary represented by one or more designated monitoring wells at which groundwater cleanup target levels may not be exceeded while site rehabilitation under an approved Natural Attenuation Monitoring Plan is proceeding.	
3.40	"Total Volatile Organic Aromatics" means the sum of concentrations of Benzene, Toluene, total Xylenes and Ethylbenzene.	
3.41	"Used oil" means any lubricants for use in internal combustion engines that have been refined from crude oil and, as a result of use, storage or handling, have become unsuitable for their original purpose due to the presence of impurities or loss of properties, but that may be suitable for further use as a fuel or are economically recyclable for use as a fuel. "Used oil" shall not include any used oil that has been mixed with any material that is a hazardous waste, unless the material is a hazardous waste solely due to the characteristic of ignitability as defined in 40 CFR Part 261, Subpart C.	
3.42	"Waters" or "waters of the State" means waters as defined in Section 403.031, F.S.	
Section	n 4 REFERENCED GUIDELINES	
guideh	ic references to the guidelines listed below are made within this Ordinance. The mes are not standards as defined in Section 403.803, F.S. Use of the guidelines is not tory; the guidelines are included for informational purposes only.	

- 4.01 Technical Report: Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Final Report, dated May 26, 1999.
- 4.02 Development and Evaluation of Sediment Quality Assessment Guidelines, Volumes 1-4, dated November 1994.

4.03 RBCA Fate and Transport Models: Compendium and Selection Guidance, dated 1999.

#### Section 5 **GENERAL CONDITIONS**

- 5.01 ERM acknowledges, pursuant to Section 376.308(5), F.S., that site rehabilitation under Chapter 376, F.S., cannot be compelled for a discharge that is eligible for state restoration funding assistance, in advance of commitment of restoration funding in accordance with a site's priority ranking or to pay for the costs of rehabilitation. Real property owners of sites where active remediation or monitoring is being performed in accordance with a Remedial Action Plan Approval Order, a Monitoring Only Plan Approval Order or a Risk Assessment Approval Order by September 23, 1997, may voluntarily elect to complete site rehabilitation using the appropriate provisions of the Petroleum Contamination Site Cleanup Criteria in Florida Administrative Code that were in effect on September 3, 1996, as long as the approved active remediation or monitoring is continued to completion. If the option to complete the site rehabilitation utilizing the provisions of Chapter-62-770 that were in effect on September 3, 1996 is selected, all reports submitted to ERM shall include a statement to that effect.
- 5.02 None of the criteria adopted in this Ordinance shall be applied retroactively to any pending reimbursement application for any program task.
- Petroleum products' contaminants of concern are listed in Table A in Chapter 62-770, 5.03 F.A.C. Chapter 62-777, F.A.C., provides soil, surface water and groundwater cleanup target levels, as well as natural attenuation default concentrations, a listing of soil properties and test methods, a listing of site-specific conditions and geochemical parameters, and default parameters and equations that may be used to establish alternative soil and groundwater cleanup target levels for identified petroleum products' contaminants of concern listed in Table A.
- 5.04 Cleanup target levels for petroleum products' contaminants of concern found in groundwater, as specified in Chapter 62-777, F.A.C., Table I, or alternative cleanup target levels that may be established pursuant to Chapter 62-770.650, F.A.C. or Section 13, are enforceable under this Ordinance and apply only in the rehabilitation of sites contaminated with petroleum or petroleum products. Cleanup target levels for petroleum products' contaminants of concern found in groundwater shall be the applicable State water quality standards, except where alternative cleanup target levels are established pursuant to this Ordinance. This Ordinance is not intended to create any new water quality standards pursuant to Chapters 62-520 or 62-550, F.A.C.
- 5.05 Cleanup target levels for petroleum products' contaminants of concern found in soil, as specified in Chapter 62-777, F.A.C., Table II, or alternative cleanup target levels that may be established pursuant to Sections 12 or 13, are enforceable under this Ordinance and apply only in the rehabilitation of sites contaminated with petroleum or petroleum products. In establishing soil cleanup target levels, the methodology presented in the Technical Report: Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Final Report, dated May 26, 1999, was utilized. In establishing soil cleanup target levels for human exposure to each petroleum products' contaminant of concern found in soil, the following factors were considered: calculations using a lifetime excess cancer risk level of 1.0E-6; a hazard quotient of 1 or less; and the best achievable detection limits. Site-specific soil cleanup target levels may be justified based on background concentrations. In establishing leachability-based soil cleanup target levels for protection of the groundwater, the soil cleanup target levels shall be based on the groundwater cleanup target levels or the alternative cleanup target levels for groundwater established pursuant to Sections 12 or 13, as appropriate.
- 5.06 This Ordinance is established for the purposes of protecting the public health and the environment and for determining, on a site-specific basis, the rehabilitation program tasks that comprise a site rehabilitation program and the levels at which a rehabilitation program task and site rehabilitation program may be deemed complete. In establishing

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this Ordinance, risk-based corrective action principles were incorporated to the maximum extent feasible, to achieve protection of human health, public safety and the environment in a cost-effective manner. Therefore, this Ordinance references both default cleanup target levels and a process for the derivation of site-specific alternative cleanup target levels that are protective of human health, public safety and the environment.

- 5.07 For sites where a Site Rehabilitation Completion Order was issued for every known discharge prior to August 5, 1999, the cleanup target levels for petroleum products' contaminants of concern shall be those that were in effect at the time of issuance of the Order(s). If a subsequent discharge of petroleum or petroleum products occurs at the site after issuance of the Order(s), site rehabilitation may be required under applicable provisions of this Ordinance, to reduce concentrations of petroleum products' contaminants of concern resulting from the subsequent discharge, to the cleanup target levels specified in this Ordinance, subject to the provisions of Subsection 5.04.
- 5.08 Receipt of approval under this Ordinance does not relieve the responsible party from the obligation to comply with other County Ordinances or Department rules (for example, Chapters 62-701, 62-713, 62-730, 62-782 and 62-785, F.A.C.) regarding off-site disposal, relocation or treatment of contaminated media. Responsible parties are advised that other federal, state or local requirements may apply to these activities.

### Section 6 CONTAMINATION REPORTING

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Upon discovery of contamination (unless the contamination is the result of a previously reported discharge for which site rehabilitation completion has not been achieved or the contamination is known to be from a non-petroleum product source) or upon a discharge of petroleum or petroleum products, notification shall be submitted to ERM using the Discharge Report Form [Form Number 62-761.900(1)].

- 6.01 If the discharge was from a storage tank system regulated pursuant to the Petroleum Storage Systems Ordinance, the discharge must be reported by the facility owner or operator pursuant to the applicable requirements of the Petroleum Storage Systems Ordinance; or
- 6.02 For all other discharges of petroleum or petroleum products, the discharge must be reported within one week of discovery. The discharge must be reported by:
  - (a) The discharger; or
  - (b) The owner or operator if the discharger is unknown or if the discovery was the result of a previously unreported discharge.

#### Section 7 SOURCE REMOVAL

- 7.01 Free Product Removal and Disposal.
  - (a) Except for those sites described in Subsection 7.01(g) of this Ordinance, within three days of discovery of free product the responsible party shall take steps to obtain cleanup aervices for product recovery or initiate product recovery. Product recovery shall be performed in accordance with Subsection 7.01(b). The ERM tank compliance program must be contacted by the responsible party within 24 hours of the discovery of free product from a new discharge. If state funding assistance from the Inland Protection Trust Fund will be sought, product recovery authorized under this paragraph and in accordance with the Department's preapproval program procedures established pursuant to Section 376.30711, F.S., may only be performed for up to five days from the date of commencement of product recovery of the new discharge. If product recovery is not complete

pursuant to Subsection 7.01(d) at the end of five days, or the scope of activities specified in Subsection 7.01(b) will be exceeded, the responsible party shall request written authorization for additional product recovery from ERM. The responsible party is required to complete product recovery provided that:

- (1) The selected recovery method is in accordance with Subsection 7.01(b);
- (2) Product recovery does not spread contamination into previously uncontaminated or less contaminated areas through untreated discharges. improper treatment, improper disposal or improper storage;
- (3) Flammable products are handled in a safe manner; and
- (4) All sampling and analyses are performed in accordance with Section 8.
- (b) The following passive and active methods of product recovery may be implemented without requesting approval from ERM:
  - (1) Absorbent pads;

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- Skimmer pumps that include pumps with mechanical, electrical or hand-bailed purging operations;
- (3) Hand or mechanical bailing; and
- (4) Fluid vacuum techniques (for example, vacuum pump trucks) or total fluid displacement pumps, as long as:

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- a. The technique used does not smear or spread free product or result in contaminating previously uncontaminated media; and
- b. The volume of groundwater recovered is not greater than two times the volume of free product recovered, except that the first 1,000 gallons of the total fluid recovered per discharge are exempt from meeting the required ratio of groundwater to free product.

(c) In addition to the recovery methods specified in Subsection 7.01(b), other product recovery methods may be evaluated, proposed and submitted by the responsible party to ERM for approval, prior to implementation. During the submittal and approval process, implementation of one or more of the collection methods specified in Subsection 7.01(b), is required. The submittal must include the results of the evaluation performed to determine the potential for product spreading or smearing, and the potential for air emissions, and a justification as to the environmental and economical benefits of the selected recovery method. The product recovery methods proposed may include:

- (1) excavation of soil saturated with petroleum or petroleum products' contaminants of concern into or below the water table;
- (2) dewatering or groundwater extraction that may influence the depth to the water table; or
- (3) air/fluid extraction.
- (d) Product recovery shall be deemed complete when free product has been removed to the maximum extent practicable.
- (e) Within 10 days after initiation of product recovery, written notification shall be provided by the responsible party to ERM on Form 62-770.900(1).

	(f)	Unless a different reporting period is approved under the provisions of Subsection 17.05, an annual status report documenting the recovery progress and summarizing all recovery activities shall be submitted by the responsible party to
	(g)	ERM for review. At petroleum contamination sites eligible for state funding assistance under the Inland Protection Trust Fund where the discharge occurred prior to March 29, 1995, product recovery shall commence in accordance with the ranking established pursuant to Chapter 62-771, F.A.C., and shall be performed in accordance with Subsections 7.01(b) and (c), and pursuant to Section 376.30711. F.S.
7.02	Soil	Removal, Treatment and Disposal.
	(a)	If contaminated soil exists at a site, excavation of contaminated soil for proper treatment or proper disposal may be performed. Consistent with the goals set forth in Section 403.061(34), F.S., ERM encourages treatment over disposal options to address contaminated soil. Treatment or disposal of contaminated soil may be performed prior to ERM approval of a Remedial Action Plan submitted under Section 15, provided the following criteria are met:
		<ol> <li>Contamination is not spread into previously uncontaminated or less contaminated areas through untreated discharges, improper treatment, improper disposal or improper storage;</li> </ol>
		(2) Flammable products are handled in a safe manner;
		(3) When a soil vacuum extraction system is necessary to abate an imminent threat to human life, health, safety or welfare within a structure or utility conduit, then the vacuum extraction system must be designed and operated only to abate the imminent threat. ERM must be notified, within 24 hours, of the imminent threat and the intent to use a soil vacuum extraction system. The air emissions monitoring and frequency of monitoring shall be performed in accordance with Subsection 15.10(i);
		(4) When excavated soil is temporarily stored or stockpiled on-site, the soil shall be secured in a manner that prevents human exposure to contaminated soil and prevents soil exposure to precipitation that may cause surface runoff, and any excavation shall be secured to prevent accidental or intentional entry by the public. Excavated contaminated soil (including excessively contaminated soil) may be returned to the original excavation when petroleum storage tank systems have been removed or replaced, or if contaminated soil was encountered during construction activities; and
		(5) Excavated contaminated soil (including excessively contaminated soil) is not stored or stockpiled on-site for more than 60 days, unless it is stockpiled on a right-of-way, in which case it must be removed for proper treatment or proper disposal as soon as practical but no later than 30 days after excavation, or unless it is being land farmed in accordance with Subsection 7.02(b), at which time the soil must be returned to the original excavation or removed and properly treated or properly disposed. Contaminated soil (including excessively contaminated soil) may be containerized in water tight drums and stored on-site for 90 days, after which time proper treatment or proper disposal of the contaminated soil shall occur, or may be land farmed as specified in Subsection 7.02(b).
	(b)	Land farming of contaminated soil is allowed, provided the land farming operation is located on the same site as the source of contaminated soil unless it is land farmed at a permitted stationary facility. The following criteria must be met for contaminated soil land farmed on the source site:
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	<ol> <li>The land farm ope or park;</li> </ol>	ration must be at least 200 feet from any residence, scho
	(2) An area large enoube available;	ugh to spread the soil to a thickness of 6 to 12 inches mu
		area must be secured in a manner that prevents accidenta y by the public and prevents human exposure to
		I to construct the land farm treatment area must withstan nd farming and weather;
		oil must be placed over an impermeable liner or surface, all times by an impermeable liner supported by berms;
	(6) The land farmed s	oil must be tilled at least biweekly;
	(7) The land farmed a from entering or le	oil must be covered when not being tilled to prevent wate aving the area;
	effectiveness of th environment, inclu occurring and of o monitoring and sat area, and types and submitted by the n commences, to den Prior approval is n design specification	sampling program must be established to evaluate the e land farming operation and the effect on the iding monitoring of groundwater to confirm leaching is n ff gas emissions for air regulatory compliance. The mpling program, design specifications of the treatment d amounts of any proposed additives to the soil, must be esponsible party to ERM before the land farming operation monstrate that the objectives of this paragraph will be me not required for quantities less than 20 cubic yards, but the mas and results of the monitoring and sampling program in the Source Removal Report;
	disposal is require	oil is limited to 180 days, at the end of which time proper d except if written approval under the provisions of to exceed this time frame, is obtained from ERM; and
	residential cleanup criteria cleanup tau may be disposed o other federal, state farmed soil that ex Chapter 62-777, F	hat does not exceed the lower of the direct exposure target levels and leachability based on groundwater get levels specified in Chapter 62-777, F.A.C., Table II- n-site or off-site. Responsible parties are advised that or local requirements may apply to these activities. Lan- ecceds the applicable cleanup target levels specified in .A.C., Table II may not be disposed or returned to the n without obtaining approval from ERM.
	(c) Soil treatment or dispos Department, or in Subse submitted under Section	al techniques not authorized by applicable rules of the oction 7.02(b), require approval in a Remedial Action Plan 15.
7.03	Authorizations.	
	party from the obligation to co Chapters 62-701 and 62-730, handling, storage, disposal or	proval under Section 7, does not relieve the responsible omply with other Department or ERM rules (for example F.A.C.) for product recovery, product disposal, or the treatment of contaminated media. Responsible parties ar te or local requirements may apply to these activities.
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Within 60 days of completion of free product removal and proper disposal. (1) soil treatment or proper soil disposal, two copies of a Source Removal Report shall be submitted by the responsible party to ERM for review. (2) Unless otherwise specified in a preapproval agreement, the report shall contain the following information in detail, as applicable: a. The volume of product that was discharged, if known; b. The volume of free product and the volume of groundwater recovered: The volume of contaminated soil excavated and treated or properly c. disposed; d. The disposal or recycling methods for free product and contaminated soil: The disposal methods for other contaminated media and any e. investigative-derived waste; f. A scaled site map (including a graphical representation of the scale used) showing location(s) of free product recovered and the area of soil removed or treated and the approximate locations of all samples taken; g. A table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made; h. The type of field screening instrument, analytical methods or other method used: i. The dimensions of the excavation(s) and location(s), integrity, capacities and last known contents of storage tanks, integral piping, dispensers, or appurtenances removed; j. The dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks; k. A table indicating the identification, depth and field soil screening results or laboratory analyses of each sample collected; 1. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information; m. Type of petroleum or petroleum products discharged; n. Documentation confirming the proper treatment or proper disposal of the free product or contaminated soil, including disposal manifests for free product, a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed; and o. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results. (3) Within 60 days of receipt of a Source Removal Report, ERM shall notify the responsible party in writing of its determination of the adequacy of the 22 documentation and conformance with Source Removal criteria pursuant to Section 7.

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# Section 8 OUALITY ASSURANCE REQUIREMENTS

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- 8.01 All sampling and analyses under this rule shall be performed in accordance with Chapter 62-160, F.A.C., Quality Assurance.
- 8.02 Unless otherwise specified in this Ordinance, reports that are submitted to ERM and that contain analytical data shall include the following forms and information:
  - (a) Laboratory reports that include all information specified in Rule 62-160.670. F.A.C.;
  - (b) Copies of the completed chain of custody record form(s) [Form 62-770.900(2)]:
  - (c) Copies of the completed water sampling log form(s) [Form 62-770.900(3)]; and
  - (d) Results from screening tests or on-site analyses performed pursuant to this Ordinance.

# Section 9 PROFESSIONAL CERTIFICATIONS

Applicable portions of technical documents submitted to ERM shall be signed and sealed by a Professional Engineer registered under Chapter 471, F.S., or a Professional Geologist registered under Chapter 492, F.S., certifying that the applicable portions of the technical document and associated work comply with standard professional practices, the rules of the Department and any other laws and rules governing the profession. If a laboratory report is submitted separately from any other technical document submittal, this requirement shall not apply to the laboratory report.

#### Section 10 SITE ASSESSMENT

- 10.01 Within 30 days of discovery of contamination, a site assessment shall be initiated by the Responsible Party.
- 10.02 The objectives of the site assessment shall be the following, as applicable:
  - (a) To determine or confirm the source(s) of contamination to the extent practicable and to estimate the volume of petroleum or petroleum products that was released. That confirmation may include a determination of the structural integrity, in accordance with the testing procedures specified in the Petroleum Storage Systems Ordinance, of any petroleum storage tank system that exists at the site and is likely to be the source of the contamination;
  - (b) To establish the horizontal extent and thickness of free product. If the soil concentration of a petroleum products' contaminant of concern is above its soil saturation concentration (Csat), free product may be present [refer to the Technical Report: Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Final Report, dated May 26, 1999, for a discussion of Csat methodology];
  - (c) To determine whether contamination is present, and to determine the horizontal and vertical extent of contamination in every medium found to be contaminated;
  - (d) To estimate the total mass and mass distribution of petroleum or petroleum products in the subsurface as product entrapped above the water table, free product, and product entrapped below the water table;
  - (c) To determine whether source removal in accordance with Section 7, is warranted;

(f) To identify the aquifer or aquifers expected to be affected by the site and their groundwater classification, unless the site meets the No Further Action criteria in Subsection 13.01;

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- (g) To identify and characterize any perched zone, if present, unless the site meets the No Further Action criteria in Subsection 13.01;
- (h) To describe relevant geologic and hydrogeologic characteristics of affected and potentially affected hydrogeologic zones, unless the site meets the No Further Action criteria in Subsection 13.01;
- (i) To describe geologic and hydrogeologic characteristics of the site that influence migration and transport of petroleum products' contaminants of concern, unless the site meets the No Further Action criteria in Subsection 13.01;
- (j) To determine the rate and direction of groundwater flow (at all affected depths, as appropriate), to determine the extent of water table fluctuation, to evaluate the potential effect of seasonal variations on the rate and direction of groundwater flow, and to determine whether there are any tidal effects in sites located near marine surface water, unless the site meets the No Further Action criteria in Subsection 13.01;
- (k) To determine other mechanisms of transport of petroleum products' contaminants of concern in the immediate vicinity of the site, including rate and direction of movement of petroleum products' contaminants of concern in sewer lines, subsurface utility conduits or vaults, soil and surface water, as applicable, unless the site meets the No Further Action criteria in Subsection 13.01;
- (1) To determine by means of a well survey whether any municipal or public water supply wells are present within a ½ mile radius of the site, whether the site is located within the regulated wellhead protection zone of a municipal wellfield or public water supply well, and whether any private water supply wells (including potable, irrigation and industrial) are present within a 1/4 mile radius of the site, unless the site meets the No Further Action criteria in Subsection 13.01;
- (m) To determine whether any surface water will be exposed to contamination originating from the site;
- (n) If non-petroleum products' contaminants of concern are detected during the assessment, to identify the general location of the source in relation to the site and to evaluate whether the non-petroleum products' contaminants of concern may have an effect on future rehabilitation activities of the petroleum contamination;
- (o) To report any off-site activities (for example, dewatering, active remediation, or flood control pumping) in the immediate vicinity of the site that may have an effect on the groundwater flow at the site, unless the site meets the No Further Action criteria in Subsection 13.01;
- (p) To evaluate the degree to which human health, safety or welfare may be affected by exposure to the contamination;
- (q) To evaluate the effect of the contamination on the environment; and
- (r) To facilitate the selection of the most cost-effective remediation strategy for the site that is protective of human health and the environment, unless No Further Action is deemed appropriate under the provisions of Section 13.
- 10.03 The site assessment shall include tasks that are necessary to achieve objectives described in Subsection 10.02(a)-(r), and may include the following:

(a) Use of geophysical equipment such as magnetometers, ground penetrating radar or metal detectors to detect petroleum storage tank system components;

 (b) Use of borehole geophysical methods to determine geologic and hydrogeologic characteristics of affected and potentially affected hydrogeologic zones;
 (c) Sampling of undisturbed soil above and below the water table using hand-augering, drilling or direct push technology to obtain information on site stratigraphy and on product entrapped below the water table, to determine

geotechnical parameters and to assess the appropriateness of monitoring natural attenuation;

(d) Use of fracture trace analysis to discover linear zones in which discrete flow could take place;

(e) Use of field soil screening techniques that must be demonstrated to be appropriate for the site conditions, to determine the optimal locations for collection of samples for laboratory analyses. The laboratory analyses specified in Table B in Chapter 62-770, F.A.C. shall be performed to confirm the screening results. These analyses shall be performed on a minimum of three grab samples with high, medium and low screening results for the site. These analyses shall be performed per source area and per sampling event, except that only one representative sample shall be sufficient if the field screening results indicate that contaminated soil is not present. The actual number of laboratory samples shall be based on the horizontal and vertical extent of contamination and the degree of correlation between field soil screening and laboratory results;

(f) Use of visual observations to determine whether soil contaminated or saturated with used oil is present. If the presence of soil contaminated or saturated with used oil is identified, at least one sample from the most visibly stained area shall be collected for analyses for the used oil parameters as listed in Table C in Chapter 62-770, F.A.C. If soil visually stained or saturated with used oil is excavated in accordance with Subsection 7.02(a), at least one sample from the bottom of the excavation, if the water table was not reached, and at least one sample from the wall of the excavation at an equivalent depth of the soil visually stained or saturated with used oil that was removed, shall be collected for analyses for contaminants of concern detected in the sample collected in the most visibly stained area or during pro-burn analyses, to confirm that all contaminated soil was removed;

(g) Use of piezometers or monitoring wells to determine the frequency of occurrence, horizontal extent and thickness of free product;

(h) Use of monitoring wells, piezometers or other sampling and measurement techniques to obtain a three-dimensional evaluation of the source of contamination, of the migration of petroleum products' contaminants of concern below the water table, of groundwater flow and of relevant hydrologic parameters;

 Use of piezometers or monitoring wells to determine horizontal direction(s) of groundwater flow and horizontal and vertical hydraulic gradients, as applicable;

(j) Survey of every top-of-casing. Unless the elevation of each top-of-casing is determined in reference to a single benchmark of an arbitrary elevation, the survey shall be completed by closing the loop for each pair of adjacent monitoring wells or piezometers or with the first top-of-casing surveyed;

(k) Use of field screening techniques (for example, use of temporary wells, piezometers or direct push technology to obtain groundwater samples for on-site analyses using gas chromatography) to optimize monitoring well placement;

(1) Sampling of monitoring wells for the appropriate laboratory analyses (using the quiescent sampling technique for metals if turbidity is affecting the total metal results) to determine the degree and extent of groundwater contamination, if applicable, such that:

- (1) Drill cuttings and drilling mud generated during monitoring well installation shall be handled and disposed of in such a manner that contamination is not spread into previously uncontaminated or less contaminated areas; and
- (2) Development water and purge water shall be handled and disposed of in such a manner that contamination is not spread into previously uncontaminated or less contaminated areas;
- (m) Sampling of surface water and sediment for the appropriate laboratory analyses to determine the degree and extent of surface water and sediment contamination, if applicable;
- (n) Inspection of public records (such as those at the Palm Beach County Health Department, at the South Florida Water Management District and at local municipalities), and performance of a field reconnaissance as appropriate, to locate all water supply wells (including potable, irrigation and industrial) in accordance with Subsection 10.02(1);
- (o) If the possibility exists that the contamination may have impacted public or private water supply wells, sampling of the well or wells for the appropriate laboratory analyses, with the consent of the owner(s), to determine whether any contamination is present;
- (p) Performance of slug tests or a pumping test, if appropriate, on different strata of the surficial aquifer or of different aquifers, if applicable, using water-table monitoring wells, intermediate depth monitoring wells and vertical extent monitoring wells. Performance of a pumping test may be deferred until the .
  Remedial Action Plan phase if groundwater extraction is proposed in accordance with the provisions of Section 15. If a pumping test is performed within the plume, at least one sample of the groundwater withdrawn during the test shall be collected at the end of the pumping test and analyzed for the appropriate petroleum products' contaminants of concern and physical properties (for example, Hardness, Iron, Total Dissolved Solids and Total Suspended Solids) that may affect the treatment system and disposal options;
- (q) Use of available and appropriate literature in conjunction with site-specific lithologic logs to identify aquifers present beneath the site. An analysis for Total Dissolved Solids shall be used if it is chosen to demonstrate that the natural background quality of the groundwater on-site would allow it to be classified as an area of G-III groundwater;
- (r) Review of historical land use records and existing aerial photographs;
- (s) Sampling of soil for USEPA Test Method 1312, Synthetic Precipitation Leaching Procedure (SPLP) analyses, or for USEPA Test Method 1311, Toxicity Characteristic Leaching Procedure (TCLP) analyses if the contamination is derived from used oil or similar petroleum products or if the information available indicates that the soil has the potential to be a hazardous waste, or for the analyses of the physical parameters listed in Chapter 62-777, F.A.C., Table III, required to support a recommendation for performing a risk assessment; and
- (t) Use of other methods approved by the Department in accordance with Rule 62-770.890.

10.04	The analyses for petroleum products' contaminants of concern in surface water. groundwater, soil and sediment samples. as applicable, shall be performed using the analytical procedures listed in Tables B, C and D in Chapter 62-770, F.A.C. The type o petroleum or petroleum products causing the contamination will determine which table is appropriate. Equivalent methods may be used if approved through protocols described in Rules 62-160.400(6), (7) and (8), F.A.C.
	(a) If petroleum product discharges are from the Gasoline or Kerosene Analytical Groups, analyses shall be performed as described in Table B, Chapter 62-770, F.A.C., except that:
	(1) If the site is anticipated to meet the No Further Action criteria in Section 13, and the site is contaminated by products solely from the Gasoline Analytical Group, analytical screening of the monitoring wells for Benzene, Ethylbenzene, Toluene, total Xylenes, MTBE and Polycyclic Aromatic Hydrocarbons (PAHs) (using applicable methods in Table B, Chapter 62-770, F.A.C.) may be performed; or
	(2) If the site is anticipated to meet the No Further Action criteria in Section 13, and the site is contaminated by products from the Kerosene Analytical Group, analytical screening of the monitoring wells for Benzene, Ethylbenzene, Toluene, total Xylenes, MTBE, PAHs and Total Recoverable Petroleum Hydrocarbons (TRPHs) (using applicable methods in Table B, Chapter 62-770, F.A.C.) may be performed.
	(b) If petroleum product discharges are from used oil, from an identified product not listed in the Gasoline or Kerosene Analytical Groups, or from a product for which the specific identity is unknown, analyses shall be performed as described in Table C, Chapter 62-770, F.A.C.
	(c) If the contamination is derived from petroleum as defined in Section 376.301, F.S., analyses shall be performed as described in Table D, Chapter 62-770, F.A.C.
10.05	If initial testing of representative monitoring well(s), performed pursuant to Subsection 10.04, does not indicate the presence of any petroleum products' contaminants of concern within a specific analytical procedure, or indicates that the presence of a contaminant of concern is due to a background concentration, subsequent testing at the site need not include that analytical procedure.
10.06	Within 270 days of discovery of contamination, two copies of a Site Assessment Report (that may reference previously submitted documents) shall be submitted by the responsible party to ERM for review. Applicable portions of the Site Assessment Report shall be signed and sealed by an appropriate registered professional pursuant to Section 9.
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	<ul> <li>(that may reference previously submitted documents) shall be submitted by the responsible party to ERM for review. Applicable portions of the Site Assessment Report shall be signed and sealed by an appropriate registered professional pursuant to Section 9.</li> <li>The Site Assessment Report shall:</li> <li>(a) Summarize all tasks that were implemented pursuant to Subsections 10.02 and 10.03, and summarize the results obtained. All maps shall be in black and white, except the topographic map required by Subsections 10.07(a)2 (if a color map is submitted, a duplicate black and white map is required), and all site maps shall indicate the North direction, be drawn to scale and include a graphical</li> </ul>
	<ul> <li>(that may reference previously submitted documents) shall be submitted by the responsible party to ERM for review. Applicable portions of the Site Assessment Report shall be signed and sealed by an appropriate registered professional pursuant to Section 9.</li> <li>The Site Assessment Report shall:</li> <li>(a) Summarize all tasks that were implemented pursuant to Subsections 10.02 and 10.03, and summarize the results obtained. All maps shall be in black and white, except the topographic map required by Subsections 10.07(a)2 (if a color map is submitted, a duplicate black and white map is required), and all site maps shall indicate the North direction, be drawn to scale and include a graphical representation of the scale used. The following shall be included when applicable: <ul> <li>(1) A summary of site history and operations, including the type and length of</li> </ul></li></ul>
	<ul> <li>(that may reference previously submitted documents) shall be submitted by the responsible party to ERM for review. Applicable portions of the Site Assessment Report shall be signed and sealed by an appropriate registered professional pursuant to Section 9.</li> <li>The Site Assessment Report shall:</li> <li>(a) Summarize all tasks that were implemented pursuant to Subsections 10.02 and 10.03, and summarize the results obtained. All maps shall be in black and white, except the topographic map required by Subsections 10.07(a)2 (if a color map is submitted, a duplicate black and white map is required), and all site maps shall indicate the North direction, be drawn to scale and include a graphical representation of the scale used. The following shall be included when applicable:</li> <li>(1) A summary of site history and operations, including the type and length of time petroleum or specific petroleum products were stored/distributed;</li> <li>(2) A copy of the portion of the most recent USGS topographic map, including quadrangle name and scale, that clearly identifies the site in relation to the</li> </ul>

(3)	A vicinity map showing pertinent features, particularly any potential sources of petroleum or petroleum products contamination (such as former or current gas stations), and non-petroleum product sources (such as former or current dry cleaners) if non-petroleum products' contaminants of concern were detected during the assessment. The FDEP facility identification numbers shall be provided if available. If the subject site meets the No Further Action criteria in Subsection 13.01, a vicinity map is not required;	
(4)	One or more site maps showing all pertinent features (such as former and current tank farms, integral piping and dispensers, monitoring wells, buildings, land cover, utilities and subsurface stormwater drainage structures) present in the immediate vicinity of the contamination;	
(5)	When available, a copy of the most recent and all previously failed tank and integral piping tightness tests performed on the storage tank system(s) known or suspected to be the source of the contamination and all available records on storage tank or integral piping repairs performed on such system(s);	
(6)	Details of any preliminary assessment or source removal activities performed in relation to the petroleum or petroleum products contamination at the site, such as product recovery and contaminated soil removal (summarized in graphical and tabular form);	
(7)	Data and calculations used to determine the top-of-casing elevations and the accuracy of the survey performed in accordance with Subsection 10.03(j);	
(8)	Tables listing the top-of-casing elevations, depths to groundwater and water-level elevations obtained at least twice, at least one month apart, and the dates the data were collected;	
<b>(9)</b>	Site maps illustrating the water-level elevations calculated at each monitoring well or piezometer, and depicting the estimated elevation contours and an interpretation of groundwater flow direction. If different strata of the same aquifer, or if different aquifers, are affected, separate figures must be submitted for each date on which measurements were recorded, depicting flow in each stratum or aquifer; if the site's groundwater is tidally-influenced, separate figures must be submitted depicting flow at high and low tide;	
(10)	A table summarizing the use and well construction details, if available, of all the water supply wells identified during the well survey performed in accordance with Subsection 10.02(1);	
(11)	A map showing the approximate location(s) of the water supply well(s) identified during the well survey performed in accordance with Subsection 10.02(l), in relation to the subject site;	
(12)	The results from slug tests performed on a minimum of three monitoring wells or from a pumping test, performed to determine aquifer properties, including a description of methods used, assumptions made, field data and calculations, unless the site meets the No Further Action criteria in Subsection 13.01, or the Natural Attenuation criteria in Subsections 14.01(a)-(f);	
(13)	The result of a calculation of horizontal groundwater flow velocity (v) for the site, using the formula $v = KI/n$ , where K is the average hydraulic conductivity, I is the average horizontal hydraulic gradient, and n is the estimated effective soil porosity, unless the site meets the No Further Action criteria in Subsection 13.01, or the Natural Attenuation criteria in Subsections 14.01(a)-(f);	28

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(14)	A description of any geophysical methods used for the project;
(15)	A description of the site-specific stratigraphy, based on the lithologic logs prepared during monitoring well installation and during drilling of standard penetration test borings (including composition, thickness and continuity of various lithologic units);
(16)	At least one cross-section illustrating the site-specific stratigraphy and approximate concentrations of applicable petroleum products' contaminants of concern;
(17)	Details of any other assessment methodology used at the site, including any field screening techniques and measures of biological activity (for example, dissolved oxygen, nutrient levels);
(18)	A table summarizing the field soil screening results obtained at each sampling location and depth, as well as a summary of the results of any laboratory analyses performed and a listing of the date(s) the work was performed;
(19)	One or more site maps showing all soil sampling locations for field screening or laboratory analyses, in relation to the former and current petroleum or petroleum products tank systems, integral piping and dispensers and any excavated areas, and illustrating the horizontal and vertical extent of vadose zone soil contamination when soil contamination is detected;
(20)	Piezometer, monitoring well and recovery well construction details and construction diagrams, including methods and materials, field sampling data sheets, lithologic logs and volumes of groundwater removed during well development;
(21)	A table that is updated any time additional piezometers, monitoring wells or recovery wells are installed and that summarizes the well construction details (including the top-of-casing elevation, total depth, screen length, and depth of the top of the screen below land surface) of all monitoring wells (including compliance wells), piezometers and recovery wells;
(22)	A current table that summarizes free product thickness measured, volumes recovered and date(s) measurements were recorded, if applicable;
(23)	An estimate of the total mass and mass distribution of petroleum or petroleum products in the subsurface as product entrapped above the water table, free product, and product entrapped below the water table, and a site map showing the estimated horizontal extent of free product;
(24)	All information required by Section 8;
(25)	At least one table summarizing the groundwater and surface water analytical results (with the most recent sampling of representative monitoring wells having occurred within 270 days of Site Assessment Report submittal), detection limits used, and analyses performed (listing all contaminants of concern detected and their corresponding cleanup target levels); and
(26)	One or more site maps showing any areas excavated, and all groundwater and surface water sampling locations, and illustrating the degree and extent of groundwater and surface water contamination (separate maps for Benzene, for Total Volatile Organic Aromatics, and for all other significant/widespread petroleum products' contaminants of concern).
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,	(b) Summarize conclusions regarding site assessment objectives outlined in Subsection 10.02(a)-(r), and include one of the following:				
		<ul> <li>(1) A No Further Action Proposal without conditions shall be included if the site meets the applicable No Further Action criteria in Subsection 13.01, or a No Further Action Proposal with conditions such as institutional and engineering controls may be included if the site meets the applicable No Further Action criteria in Subsection 13.02;</li> </ul>			
	<ul> <li>(2) A Natural Attenuation Monitoring Plan may be included if the site meets Natural Attenuation criteria in Section 14;</li> </ul>				
		(3) A recommendation to prepare a risk assessment shall be included if the responsible party chooses to justify alternative cleanup target levels due to site-specific conditions. The recommendation shall include documentation adequate to support the request to do one or more of the task elements in Chapter 62-770.650(2), F.A.C., and shall specify the parameters or exposure assumptions that will be used to develop the alternative cleanup target levels pursuant to Chapter 62-770.650, F.A.C.; or			
		(4) A recommendation to prepare a Remedial Action Plan pursuant to Section 15, shall be included if the site does not meet the No Further Action criteria in Subsection 13.01, unless a proposal for a No Further Action with conditions such as institutional and engineering controls pursuant to Subsection 13.02, or a Natural Attenuation Monitoring Plan pursuant to Section 14, or a recommendation to prepare a risk assessment pursuant to Section 12, is included.			
10.08	With purs	hin 60 days of receipt of a Site Assessment Report or of additional information suant to Subsection 17.04, ERM shall:			
	(a)	Provide the responsible party with written approval of the Site Assessment Report and the proposal or recommendation submitted pursuant to Subsection 10.07(b); or			
	<b>(</b> b)	Notify the responsible party in writing, stating:			
		<ol> <li>The reason(s) why the Site Assessment Report does not contain information adequate to support the conclusions regarding the site assessment objectives outlined in Subsection 10.02(a)-(r); or</li> </ol>			
		(2) The reason(s) why the proposal or recommendation submitted pursuant to Subsection 10.07(b), is not supported by the applicable criteria.			
	(c)	Site assessment activities shall not be deemed complete until such time as a Site Assessment Report is approved.			
Section	<b>1</b> 1	FATE AND TRANSPORT MODEL REQUIREMENTS			
11.01	1.01 A model used to support an evaluation in accordance with the provisions of Sections 12, 13 or 14, must be a fate and transport model with the ability to adequately simulate movement and degradation of petroleum products' contaminants of concern in the aquifer over time and distance, taking into account attenuation mechanisms including biological, physical, and chemical processes. The model must comply with the provisions of Rule 62-770.610, F.A.C.				

#### Section 12 RISK ASSESSMENT

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12.01 Within 90 days after written Departmental approval of the recommendation to prepare a risk assessment, the applicable risk assessment task elements shall be performed and three copies of the Risk Assessment Report shall be submitted by the responsible party to ERM for review. ERM will review the Risk Assessment Report and will forward ERM's review comments along with the Risk Assessment Report to the Department for subsequent Departmental review.

# Section 13 NO FURTHER ACTION

13.01 A No Further Action without conditions shall apply if:

- (a) Free product does not exist in wells, boreholes, open drainage ditches, open excavations or trenches or on nearby surface water, or petroleum or petroleum products in excess of 0.01 foot in thickness are not present in sewer lines, subsurface utility conduits or vaults, and no other fire or explosive hazard exists as a result of a release of petroleum or petroleum products;
- (b) For the purposes of Section 376.3071(11)(b)2., F.S., excessively contaminated soil does not exist;
- (c) Contaminated soil is not present in the unsaturated zone, as demonstrated by the analyses of soil samples collected from representative sampling locations that show that concentrations of all of the applicable petroleum products' contaminants of concern do not exceed:
  - (1) The background concentrations; or
  - (2) The lower of the direct exposure residential cleanup target levels or the applicable leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II or, if only leachability cleanup target levels are exceeded, then direct leachability testing results may be used to demonstrate that leachate concentrations do not exceed the applicable groundwater cleanup target levels. Leachability testing pursuant to USEPA Test Method 1312 (SPLP), or USEPA Test Method 1311 (TCLP) if the contamination is derived from used oil or similar petroleum products, must be performed on a minimum of three representative grab soil samples from each source area that exceed leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II, with the actual number of samples based on the horizontal and vertical extent of contamination and the site-specific stratigraphy; or
  - (3) Alternative cleanup target levels for TRPHs established in accordance with Chapter 62-770.650, F.A.C.; or
  - (4) Alternative cleanup target levels established using appropriate site-specific parameters of the contaminated soil in accordance with Chapter 62-770.650, F.A.C.;
- (d) Concentrations of petroleum products' contaminants of concern in groundwater samples do not exceed the higher of the background concentrations or the applicable cleanup target levels referenced in Chapter 62-777, F.A.C., Table I, groundwater criteria column, except that if the site's groundwater contamination is affecting or may potentially affect a freshwater surface water body based on monitoring well data, groundwater flow rate and direction, or fate and transport modeling, then the cleanup target levels referenced in Chapter 62-777, F.A.C., Table I, freshwater surface water criteria column shall also apply to groundwater; and

(e) Concentrations of petroleum products' contaminants of concern in surface water samples do not exceed the higher of the background concentrations or the applicable cleanup target levels referenced in Chapter 62-777, F.A.C., Table I. freshwater surface water criteria column or marine surface water criteria column. as applicable.

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13.02 A No Further Action with conditions such as institutional and engineering controls shall. apply if the conditions are protective of human health, public safety and the environment in a cost-effective manner and are agreed to by the real property owner(s) of all affected properties. Fate and transport models as defined in Section 11, may be utilized to demonstrate that conditions are protective. The following conditions must be met:

- (a) Free product does not exist in wells, boreholes, open drainage ditches, open excavations or trenches or on nearby surface water, or petroleum or petroleum products in excess of 0.01 foot in thickness are not present in sewer lines, subsurface utility conduits or vaults, and no other fire or explosive hazard exists as a result of a release of petroleum or petroleum products, or free product removal is not technologically feasible;
- (b) For the purposes of Section 376.3071(11)(b)2., F.S., excessively contaminated soil does not exist;
- (c) Alternative soil cleanup target levels have been established by the real property owner(s) by agreeing to:
  - (1) The enactment of an institutional control, in which case the concentrations of the petroleum products' contaminants of concern must not exceed the lower of the direct exposure commercial/industrial cleanup target levels or the applicable leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II, as applicable. The soil leachability cleanup target levels may be exceeded if it is demonstrated to ERM upon individual site characteristics and the restrictions specified in the institutional control, that petroleum products' contaminants of concern will not leach into the groundwater at concentrations that exceed applicable groundwater cleanup target levels referenced in Chapter 62-777, F.A.C., Table I. If soil that exceeds direct exposure residential cleanup target levels or applicable leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II is allowed to remain on-site, then soil removal, treatment and disposal criteria in Subsections 7.02 and 7.03, shall apply if the contaminated soil is later exceavated;

(2) The enactment of an institutional control, in which case the concentrations of the petroleum products' contaminants of concern in soil below two feet below land surface may exceed the direct exposure residential cleanup target levels but may not exceed the applicable leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II. The leachability cleanup target levels may be exceeded if it is demonstrated to ERM, based upon individual site characteristics and the restrictions specified in the institutional control, that petroleum products' contaminants of concern will not leach into the groundwater at concentrations that exceed applicable groundwater cleanup target levels referenced in Chapter 62-777, F.A.C., Table I. If soil that exceeds direct exposure residential cleanup target levels or leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II is allowed to remain on-site, then soil removal, treatment and disposal criteria in Subsections 7.02 and 7.03, shall apply if the contaminated soil is later excavated, or exposed due to a change in site conditions;

(3) The enactment of an institutional control, in which case the concentrations of the petroleum products' contaminants of concern must not exceed the alternative soil cleanup target levels justified pursuant to Chapter 62-770.650, F.A.C.. If soil that exceeds direct exposure residential cleanup target levels or leachability cleanup target levels specified in Chapter 62-770. F.A.C., Table II is allowed to remain on-site, then soil removal, treatment and disposal criteria in Subsections 7.02 and 7.03, shall apply if the contaminated soil is later excavated. The enactment of an institutional control is not necessary if the alternative soil cleanup target levels were justified solely using appropriate site-specific parameters of the contaminated soil in accordance with Chapter 62-770.650, F.A.C.; or

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;9 60 (4) The implementation of engineering controls, such as permanent cover material, that prevent human exposure and limit water infiltration, in conjunction with institutional controls. If soil that exceeds direct exposure residential cleanup target levels or leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II is allowed to remain on-site, then soil removal, treatment and disposal criteria in Subsections 7.02 and 7.03, shall apply if the contaminated soil is later excavated, or exposed due to a change in site conditions; and

(d) Alternative groundwater cleanup target levels have been established by the real property owner(s) depending on the current or projected use of groundwater and surface water in the vicinity of the site and by agreeing to:

- (1) The enactment of an institutional control to ensure that the contaminated groundwater will not be utilized, in accordance with the following:
  - a. For contamination of groundwater of low yield (average hydraulic conductivity of less than one foot per day, determined by performing slug tests on a minimum of three monitoring wells; and a maximum yield of 80 gallons per day, determined by pumping a four inch well screened across the cross-section of the plume, for a minimum of two hours) or with background concentrations that exceed Florida's Primary and Secondary Drinking Water Standards, then the cleanup target levels referenced in Chapter 62-777, F.A.C., Table I, groundwater of low yield/poor quality criteria column shall apply to groundwater;
  - b. For groundwater contamination that is affecting or may potentially affect a marine surface water body with no other property or properties located between the source property boundary and the marine surface water body, then the applicable cleanup target levels referenced in Chapter 62-777, F.A.C., Table I, marine surface water criteria column shall apply to groundwater;
  - c. For groundwater contamination that is limited to the immediate vicinity of the source area and the area of groundwater contamination is less than 1/4 acre, where it has been demonstrated by a minimum of one year of groundwater monitoring that the groundwater contamination is not migrating away from such localized source area, then the alternative cleanup target levels shall be established through a scientific evaluation. The scientific evaluation (historical data or modeling results, as applicable) must demonstrate that the concentrations of petroleum products' contaminants of concern in groundwater at the property boundary of the real property on which the petroleum contamination originates shall not exceed the background concentrations or the applicable cleanup target levels specified in Chapter 62-777, F.A.C., Table I; or

d. If alternative cleanup target levels have been justified pursuant to Chapter 62-770.650, F.A.C., the concentrations of petroleum products' contaminants of concern do not exceed those alternative cleanup target levels; or

- (2) The implementation of engineering controls, such as a permanent containment (for example, a slurry wall), that prevent migration of the plume, in conjunction with institutional controls.
- 13.03 Unless the No Further Action Proposal is included in a Site Assessment Report pursuant to Subsection 10.07(b)1, two copies of the No Further Action Proposal shall be submitted by the responsible party to ERM for review when the criteria for No Further Action have been met. If applicable, documentation of the agreement with the real property owner(s) for a No Further Action with conditions shall be attached. Applicable portions of the No Further Action Proposal shall be signed and sealed by an appropriate registered professional pursuant to Section 9.
- 13.04 Within 60 days of receipt of a No Further Action Proposal or of additional information pursuant to Subsection 17.04, ERM shall:
  - (a) Provide the responsible party with notification that the No Further Action Proposal was approved for the purpose of this Ordinance; or
  - (b) Notify the responsible party in writing, stating the reasons(s) why the No Further Action Proposal does not contain information adequate to support the conclusion that the applicable No Further Action criteria in Section 13, have been met.

#### Section 14 NATURAL ATTENUATION

14.01 Depending on the individual site characteristics, monitoring of natural attenuation is an appropriate strategy for site rehabilitation, provided human health, public safety and the environment are protected. The individual site characteristics may include the current and projected use of the affected groundwater and surface water in the vicinity of the site, the current and projected land use of the area affected by the contamination, the exposed population, the location of the plume, the degree and extent of contamination, the rate of migration of the plume, the apparent or potential rate of degradation of petroleum products' contaminants of concern through natural attenuation, and the potential for further migration in relation to the site's property boundary. Fate and transport models as defined in Section 11, may be utilized to support the appropriate if the following criteria are met:

- (a) Free product does not exist in wells, boreholes, open drainage ditches, open excavations or trenches or on nearby surface water, or petroleum or petroleum products in excess of 0.01 foot in thickness are not present in sewer lines, subsurface utility conduits or vaults, and no other fire or explosive hazard exists as a result of a release of petroleum or petroleum products;
- (b) Contaminated soil is not present, except that applicable leachability cleanup target levels specified in Chapter 62-777, F.A.C., Table II may be exceeded if it is demonstrated to ERM that the soil does not constitute a continuing source of contamination to the groundwater at concentrations that pose a threat to human health, public safety or the environment, and it is demonstrated that the rate of natural attenuation of contaminants of concern in the groundwater exceeds the rate at which contaminants of concern are leaching from the soil, and that the presence of contaminated soil will not result in increased cleanup cost. The determination shall be based upon individual site characteristics and demonstrated by USEPA Test Method 1312 (SPLP), or USEPA Test Method 1311 (TCLP) if the contamination is derived from used oil or similar petroleum products, and based upon groundwater modeling, site stratigraphy or site assessment results;

	(c)	bac bey cor	troleum products' contaminants of concern present in the groundwater above ekground concentrations or applicable cleanup target levels are not migrating yound the temporary point of compliance, or migrating vertically that may ntaminate other aquifers or surface water resources or result in increased anup cost;		
	(d)		e physical, chemical and biological characteristics of each petroleum products attaminant of concern are conducive to natural attenuation;		
	(e) If more than one sampling event has been performed, the available data overall decrease in the mass of contamination; and				
	<b>(f)</b>	(f) The site is anticipated to meet the applicable No Further Action criteria in Section 13, as a result of natural attenuation in five years or less, the background concentrations or the applicable cleanup target levels are not exceeded at the temporary point of compliance as established pursuant to Subsections 14.02 or 14.03, and the concentrations of petroleum products' contaminants of concern do not exceed the criteria specified in Chapter 62-777, F.A.C., Table V; or			
	(g)		ne criteria in Subsection 14.01(f), are not met, the cost-effectiveness of natural mustion monitoring may be demonstrated, based on:		
		(1)	A technical evaluation of groundwater and soil characteristics, chemistry, and biological activity that verifies that the petroleum products' contaminants of concern have the capacity to degrade under the site-specific conditions;		
		(2)	A scientific evaluation (historical data or modeling results, as appropriate) of the plume migration in relation to the temporary point of compliance as established pursuant to Subsections 14.02 or 14.03, an estimation of annual milestone reductions of concentrations of petroleum products' contaminants of concern in monitoring wells, and an estimation of the time required to achieve the applicable No Further Action criteria in Section 13. Available technical information (including historical water quality data) shall be used for model calibration; and		
-		(3)	A life-cycle cost analysis of remedial alternatives.		
14.02	Provided human health, public safety and the environment are protected, the point of compliance may be temporarily moved to the property boundary, to the edge of the plume when the plume is within the property boundary, or beyond the property boundary if such extension is needed to facilitate monitoring of natural attenuation or to address the current conditions of the plume. The responsible party shall identify to ERM the owners of any property into which the point of compliance is allowed to temporarily extend and any county or municipality having jurisdiction over the area. Prior to extending the point of compliance beyond the property boundary, notice shall be provided to the identified local governments and to the real property owners of any property into which the point of extend. Such notice shall be in the format specified in Rule 62-103.150(3), F.A.C. The location of the temporary point of compliance shall be based on the individual site characteristics listed in Subsection 14.01.				
14.03	Where surface water is or may be exposed to groundwater contaminated with petroleum products' contaminants of concern (based on monitoring well data, groundwater flow rate and direction, or fate and transport modeling), the point of measuring compliance with the surface water standards shall be in the groundwater from the landward side immediately adjacent to the surface water body.				
14.04	pursu		Natural Attenuation Monitoring Plan is included in a Site Assessment Report o Subsection 10.07(b)2, two copies of the Natural Attenuation Monitoring be submitted by the responsible party to ERM for review when the criteria for		

Natural Attenuation have been met. Applicable portions of the Natural Attenuation Monitoring Plan shall be signed and scaled by an appropriate registered professional pursuant to Section 9. 14.05 Within 60 days of receipt of a Natural Attenuation Monitoring Plan or of additional information pursuant to Subsection 17.04. ERM shall: Provide the responsible party with written approval of the Natural Attenuation (2) Monitoring Plan or notification that the Natural Attenuation Monitoring Plan was approved for the purpose of this Ordinance; or (b) Notify the responsible party in writing, stating the reasons(s) why the Natural Attenuation Monitoring Plan does not contain information adequate to support the conclusion that the applicable Natural Attenuation criteria in Section 14, have been met. 14.06 The objective of the monitoring program shall be to meet the applicable No Further Action criteria in Section 13. 14.07 The monitoring program shall be performed as specified in the Natural Attenuation Monitoring Plan approval, as follows: (a) A minimum of two monitoring wells are required; (1) At least one well shall be located at the downgradient edge of the plume; and (2) At least one well shall be located in the area(s) of maximum concentrations of petroleum products' contaminants of concern or directly adjacent to it if the area of highest groundwater contamination is inaccessible (for example, under a structure); (b) The monitoring period shall be a minimum of one year, unless two consecutive quarterly sampling events have indicated that applicable cleanup target levels have been met, in which case the requirements of paragraph 14.08 shall apply; (c) The designated monitoring wells shall be sampled for analyses of applicable petroleum products' contaminants of concern at a frequency specified in the Natural Attenuation Monitoring Plan approval; (d) Water-level measurements in all designated wells shall be made immediately prior to each sampling event; The analytical results (laboratory report), chain of custody record form [Form (c) 62-770.900(2)], table summarizing the analytical results, site map(s) illustrating the analytical results, and the water-level elevation information (summary table and flow map), shall be reported by the responsible party to ERM in a Natural Attenuation Monitoring Report within 60 days of sample collection; (f) If analyses of groundwater samples indicate that concentrations of applicable petroleum products' contaminants of concern exceed any action levels specified in the Natural Attenuation Monitoring Plan approval, the well or wells shall be resampled no later than 30 days after the initial positive result is known. If the results of the resampling confirm the exceedance(s), then a proposal shall be submitted by the responsible party to ERM to: Perform a supplemental site assessment and submit a supplemental Site (1) Assessment Report pursuant to Section 10; (2) Perform additional monitoring; or (3) Prepare and submit a Remedial Action Plan pursuant to Section 15; and

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	(g)	The annual milestone reductions of concentrations of petroleum products' contaminants of concern in monitoring wells, that shall be used to verify annual progress of site rehabilitation by natural attenuation, shall be achieved during the monitoring program. If the annual rate of expected cleanup progress is not achieved, then the Natural Attenuation Monitoring Report described in Subsection 14.07(e), shall include a proposal to:
		<ol> <li>Perform a supplemental site assessment and submit a supplemental Site Assessment Report pursuant to Section 10;</li> </ol>
		(2) Perform additional monitoring; or
		(3) Prepare and submit a Remedial Action Plan pursuant to Section 15.
14.08	Reh for r met. and Reh	owing completion of natural attenuation monitoring, two copies of a Site abilitation Completion Report shall be submitted by the responsible party to ERM eview when the criteria for No Further Action pursuant to Section 13, have been Applicable portions of the Site Rehabilitation Completion Report shall be signed sealed by an appropriate registered professional pursuant to Section 9. The Site abilitation Completion Report shall contain documentation adequate to support the tion that site cleanup objectives have been achieved.
14.09	With	hin 60 days of receipt of the Site Rehabilitation Completion Report or of additional mation pursuant to Subsection 17.04, ERM shall:
	(8)	Provide the responsible party with notification that the Site Rehabilitation Completion Report was approved for the purpose of this Ordinance; or
	<b>(b)</b>	Notify the responsible party in writing, stating the reasons(s) why the Site Rehabilitation Completion Report does not contain information adequate to support the opinion that cleanup objectives have been achieved.
Sectio	<b>n</b> 15	ACTIVE REMEDIATION
15.01	Prop asset the r Plan Sect Furti The sedin cont	tin 90 days of approval of a Site Assessment Report (unless a No Further Action losal, a Natural Attenuation Monitoring Plan or a recommendation to prepare a risk assent was approved), two copies of a Remedial Action Plan shall be submitted by esponsible party to ERM for review. Applicable portions of the Remedial Action shall be signed and sealed by an appropriate registered professional pursuant to ion 9. The objective of the active remediation shall be to meet the applicable No her Action criteria in Section 13, or the Natural Attenuation criteria in Section 14. Remedial Action Plan must provide a design that addresses cleanup of all soil, ment, groundwater or surface water found to be contaminated. If one or more of the aminated media is not addressed, a recommendation and justification for that sion must be included.
15.02	02 Performance of a pilot study for bioremediation, biosparging, bioventing or an innovative technology shall be necessary prior to designing a treatment system incorporate any of these technologies. A pilot study for soil vapor extraction of sparging is recommended if the suitability of the site conditions for soil vapor and in situ sparging is marginal or if the performance of a pilot study will result more efficient design that would outweigh the additional cost of the pilot study performing a pilot study, a proposal shall be submitted by the responsible party for review. If the size of the plume and knowledge of the site's stratigraphy do warrant performance of a pilot study for soil vapor extraction or in situ sparging the rationale for the decision to not perform a pilot study submitted by the responsible party to ERM for review. The date for preparatio submission of the Remedial Action Plan shall be extended until ERM has notif responsible party to proceed with the pilot study or to prepare the Remedial Action the pilot study.	

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15.03	The Remedial Action Plan shall:				
	(a)	Include all information required by Subsection 8.02;			
	<b>(</b> b)	Summarize the Site Assessment Report conclusions and any additional data obtained subsequent to Site Assessment Report approval;			
to determine the highest concentrations of petroleum products' contaminar concern, to verify the horizontal and vertical extent of the plume and to pro- design data for the Remedial Action Plan. The sampling and analyses shal performed after approval of the Site Assessment Report, unless the most re- groundwater analytical results submitted in the complete Site Assessment are from a round of groundwater sampling and analyses performed less that days before submittal of the Remedial Action Plan. If the results from the		groundwater sampling and analyses from a number of monitoring wells adequate to determine the highest concentrations of petroleum products' contaminants of concern, to verify the horizontal and vertical extent of the plume and to provide design data for the Remedial Action Plan. The sampling and analyses shall be performed after approval of the Site Assessment Report, unless the most recent groundwater analytical results submitted in the complete Site Assessment Report are from a round of groundwater sampling and analyses performed less than 270 days before submittal of the Remedial Action Plan. If the results from the confirmatory round of sampling contradict earlier results, then supplemental site			
	(d)	Include an estimate of the total mass and mass distribution of petroleum or petroleum products in the subsurface as product entrapped above the water table, free product, and product entrapped below the water table, based on the most recent soil and groundwater analytical and field screening results. These estimates shall be revised if additional data become available that contradict or enhance the data used during the remedial design process;			
	(c)	Explain the rationale for the active remediation method selected, that shall include at a minimum:			
		(1) Results from any pilot studies or bench tests; and			
	,	(2) Results of an evaluation of remedial alternatives, and a discussion of why other remedial alternatives considered were rejected, based on the following criteria:			
		a. Long-term and short-term human health and environmental impacts;			
		b. Implementability, that may include ease of construction, site access, and necessity for permits;			
		c. Operation and maintenance requirements;			
		d. Reliability;			
		c. Feasibility;			
		f. Estimated time required to achieve cleanup; and			
		<ul> <li>Cost-effectiveness of installation, and operation and maintenance, when compared to other site remediation alternatives;</li> </ul>			
	(f)	Include the design and construction details for the equipment to be used during active remediation;			
	(g)	Summarize the operational details of the equipment to be used during active remediation, including:			
		(1) The disposition of any effluent;			
		(1) The disposition of any emident,			

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		(3) The method of air emissions treatment and the expected quantities in pounds per day of any petroleum products' contaminants of concern discharged into air as a result of all on-site active remediation systems. A separate air permit will not be required if the mass of total petroleum hydrocarbons in the air emissions from all on-site remediation equipment system(s) does not exceed 13.7 pounds per day. For on-site remediation equipment system(s) located at a facility that is a Title V source pursuant to Chapter 62-213, F.A.C., a separate permit under that chapter may be required; and				
		(4) The schedule for maintenance and monitoring of the remediation system:				
	(h)	If groundwater contamination is present, include a list of petroleum products' contaminants of concern to be monitored in the recovery well(s) and in the effluent from the treatment system (based on the type of treatment employed and disposition of the effluent) or other chemical indicators to aid in the evaluation of the appropriateness of natural attenuation monitoring pursuant to Subsection 14.01(g)1, or an in situ method of site rehabilitation. Contaminants of concern that do not exceed the background concentrations or the applicable cleanup target levels in samples from the recovery wells or monitoring wells for three consecutive quarters may be excluded from subsequent monitoring events;				
	(i)	If groundwater contamination is present, include the designation of a number of monitoring wells and a proposal for their sampling frequency adequate to monitor the cleanup progress during active remediation, and the description of the methodology proposed to evaluate the effectiveness and efficiency of the remediation system. The designated wells shall include at least one well located at the downgradient edge of the plume and one well in the area(s) of maximum concentrations of petroleum products' contaminants of concern or directly adjacent to it if the area of highest groundwater contamination is inaccessible (for example, under a structure). Consideration shall be given to the expected duration of cleanup when specifying monitoring frequency. For cleanups expected to last greater than two years, wells shall be sampled quarterly for the first year and semiannually thereafter. For cleanups expected to last less than two years, wells shall be sampled quarterly. A representative number of previously contaminated monitoring wells shall be sampled once a year, and the samples analyzed for the applicable petroleum products' contaminants of concern, in order to redefine the plume and fully evaluate the effectiveness and efficiency of the remediation system. The selection of the representative monitoring wells shall be included in the Remedial Action Plan; and				
	<b>(j)</b>	Provide the details of any proposed treatment or disposition of contaminated soil or sediment. If contaminated soil exists at the site and active remediation does not include treatment or removal of such soil, the basis for the decision to forego treatment or removal shall be provided and the Remedial Action Plan shall include a proposal to implement an institutional control, or both an institutional and an engineering control, pursuant to Subsection 13.02.				
15.04	D4 The remedial action plan summary form [Form 62-770.900(4)], shall be completed a submitted as part of the Remedial Action Plan. The information provided in the remedial action plan summary form shall be resubmitted to be consistent with the fin approved Remedial Action Plan and any subsequent modifications to the approved Remedial Action Plan.					
15.05	Othe the f	Other requirements to be included in the Remedial Action Plan, if applicable, include the following:				
	<b>(a)</b>	Vacuum extraction systems shall be equipped with a means of air emissions treatment for at least the first 30 days of system operation. Air emissions treatment may be discontinued after the first 30 days of system operation if the mass of total petroleum hydrocarbons in the emissions from all on-site remediation equipment does not exceed 13.7 pounds per day;				

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	requirements in Section 15.	
	<ul> <li>Plan was approved for the purpose of this Ordinance; or</li> <li>(b) Notify the responsible party in writing, stating the reasons(s) why the Remedial Action Plan does not contain information adequate to support the conclusions that the active remediation will be cost-effective and will comply with all applicable containing the provident to formation adequate to support the conclusions that the active remediation will be cost-effective and will comply with all applicable complexity in the provident to formation adequate to support the conclusions that the active remediation will be cost-effective and will comply with all applicable complexity in the provident to formation adequate to support the conclusions that the active remediation will be cost-effective and will comply with all applicable complexity.</li> </ul>	
	(a) Provide the responsible party with written notification that the Remedial Action	
15.08	Within 60 days of receipt of a Remedial Action Plan or of additional information pursuant to Subsection 17.04, ERM shall:	
15.07	The Remedial Action Plan may propose the use of new and innovative technologies or strategies that meet the criteria in Section 15, and that are cost-effective in meeting the No Further Action criteria in Section 13, or the Natural Attenuation criteria in Section 14. These technologies or strategies may include low-cost enhancements to natural attenuation.	
15.06	The most cost-effective and appropriate strategy for some sites may be active remediation followed by the monitoring of natural attenuation. The active remediation may consist solely of soil remediation, short-term or intermittent groundwater remediation, or other remedial enhancements, or combinations of these. The discontinuation of active remediation may be appropriate at any time depending on the site-specific characteristics and conditions. The Remedial Action Plan shall include a discussion of when the active remediation will be discontinued. When the natural attenuation criteria in Section 14, have been met, natural attenuation monitoring shall b performed pursuant to Subsection 14.07.	
	(g) An identification shall be made of methods proposed to assess remediation effectiveness in terms of mass removal relative to the amount of mass estimated accordance with Subsection 15.03(d).	
	(f) A sampling schedule shall be specified for monitoring vacuum extraction system in situ sparging, bioremediation, or other in situ means of remediation of soil and groundwater; and	
	(e) Multi-phase extraction systems shall be equipped with a means of air emissions treatment during system operation. Air emissions system operation may be discontinued if the mass of total petroleum hydrocarbons in the emissions from a on-site remediation equipment does not exceed 13.7 pounds per day;	
•	(d) Biosparging systems shall be equipped with a means of air emissions control unless the Remedial Action Plan design is based on the optimum air sparging rate that promote biological activity with minimal volatilization of hydrocarbons. The objective shall be confirmed by a pilot study or by emissions sampling during startup;	
	(c) In situ air sparging systems shall be designed and operated in conjunction with air emissions treatment system(s) unless the Remedial Action Plan design is based o sparging rates and optimum air flow with minimal volatilization of hydrocarbons. This objective shall be confirmed by emissions sampling during startup. If a vacuum extraction system is used, the vacuum extraction system shall operate at an air flow rate at least 50% greater than the sparging air flow rate, and the vacuum extraction system shall be provided with air emissions control as described in Subsection 15.05(a);	
	unless the Remedial Action Plan design is based on respiration rates and optimur air flow that result in soil remediation primarily by bioremediation with minimal volatilization of hydrocarbons. This objective shall be confirmed by a pilot study or by emissions sampling during startup;	

15.09	Active remediation activities shall not be implemented until the Remedial Action Plan is approved. Separate permits such as underground injection of treated water. National Pollutant Discharge Elimination System or air emissions are required if not included in the Remedial Action Plan approval.				
15.10	Within 120 days of approval of the Remedial Action Plan, unless a modification is obtained under the provisions of Subsection 17.05, the operation of the active remediation system shall be initiated. The following data shall be collected during active remediation, unless otherwise provided in the Remedial Action Plan:				
	(a)	Water-level data collected each time monitoring wells and recovery wells are sampled. If operational parameters remain unchanged, the responsible party may propose, pursuant to Subsection 15.12, that the requirement be modified or discontinued;			
	<b>(b)</b>	Total volume of free product recovered and the thickness and horizontal extent o free product during each month of the reporting period until free product is no longer detected in monitoring wells or recovery wells;			
	(c)	Total volume of groundwater recovered from each recovery well during each month of the operating period for the first year, and quarterly thereafter;			
	(d)	Concentrations of applicable petroleum products' contaminants of concern based on analyses performed on the effluent from the treatment system, daily for the fir three days with a 24 hour turnaround on analytical results, monthly for the next two months, and quarterly thereafter;			
	(e)	Concentrations of applicable petroleum products' contaminants of concern based upon analyses performed on the untreated groundwater from the individual recovery well(s) as proposed in the approved Remedial Action Plan, daily for the first three days, monthly for the next two months, and quarterly thereafter;			
	(f)	Analytical data from all monitoring wells sampled during the remediation year to monitor rehabilitation progress during active remediation, including all information required by Subsection 8.02;			
	(g)	Operational parameters for in situ sparging system(s), including measurements of groundwater mounding, dissolved oxygen or other means that will verify radius or influence at representative monitoring locations, weekly for the first month, monthly for the next two months, and quarterly thereafter. If operational parameters remain unchanged, the monitoring may be modified or discontinued if a demonstration is provided to ERM;			
•	(h)	Operational parameters for bioremediation system(s), including measurements of dissolved oxygen at representative monitoring locations, rates of nutrient addition and any other indicators of biological activity as proposed in the approved Remedial Action Plan, weekly for the first month, monthly for the next two months, and quarterly thereafter. If operational parameters remain unchanged, the monitoring may be modified or discontinued if a demonstration is provided to ERM;			
	(i)	Concentrations of recovered vapors from a vacuum extraction system, and post- treatment air emissions if air emissions treatment is provided, weekly for the first month, monthly for the next two months, and quarterly thereafter (for activated carbon off-gas treatment, additional sampling events may be performed based on the estimated time of breakthrough), unless two consecutive monthly or quarterly sampling events do not show exceedances of applicable air quality standards, as follows:			

	<ol> <li>Concentrations of recovered vapors from individual wells shall be determined using an organic vapor analyzer with a flame ionization detector, or other applicable field detection device, in order to optimize the air flow rate and hydrocarbon recovery;</li> </ol>
	(2) The influent and effluent samples shall be analyzed for volatile organic aromatic hydrocarbons using a gas chromatograph equipped with a photo ionization detector for the analysis of gas, or adsorption tube samples. The protocols shall follow the analytical protocols specified in 40 CFR Part 60, Appendix A, Method 18, Section 7;
	(3) The samples shall be collected using protocols outlined in 40 CFR Part 60, Appendix A, Method 18, Section 7.1, Section 7.4 or Method 0030/5040 of the Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846, 3rd Edition;
	(4) All tedlar <sup>TM</sup> bag samples shall be analyzed within 72 hours of collection;
	(5) All mylar <sup>TM</sup> bag samples shall be analyzed within 24 hours of collection; and
	(6) All adsorption tube samples shall be analyzed within 72 hours of collection;
	(j) Percentage of system operation time and treatment efficiency for all operating treatment systems; and
	(k) Results of analyses of soil samples taken to verify that the applicable No Further Action criteria in Section 13, or the applicable Natural Attenuation criteria in Section 14, have been met, based on one of the following:
	<ol> <li>When both field screening and laboratory results using the most sensitive method for the constituent(s) being analyzed for vacuum extraction systems indicate no detectable concentrations of contaminants of concern in the recovered vapors;</li> </ol>
	(2) When the screening for bioventing parameters indicates that the bioventing is complete; or
	(3) If alternative soil cleanup target levels were established pursuant to Chapter 62-770.650, F.A.C., when system performance or monitoring using the applicable analytical methods for the appropriate constituents indicate that the alternative soil cleanup target levels have been achieved.
15.11	Within 120 days of initiating operation of the active remediation system(s), engineering drawings ("as-built" drawings) shall be submitted by the responsible party to ERM. The engineering drawings shall include all construction and equipment design specifications of the installed active remediation system(s) and any operational parameters different from those in the approved Remedial Action Plan. A summary of the system(s) startup activities shall be attached to the engineering drawings.
15.12	During implementation of the Remedial Action Plan, status reports of remedial action shall be submitted by the responsible party to ERM, annually unless a greater frequency is specified in the approved Remedial Action Plan. The status reports shall be submitted within 60 days after the anniversary date of initiating operation of the active remediation system and shall contain the following information, as applicable:
	(a) A summary of the data requested in Subsection 15.10(a)-(k);

;

	(c) A summary of the estimated mass of petroleum hydrocarbons recovered in all phases, including free product, dissolved and vapors, by all on-site remediation equipment, and a comparison to the original estimate of mass of petroleum products' contaminants of concern on-site;
	(d) Conclusions as to the effectiveness of the active remediation for the specified period covered in the status report;
	(e) Recommendations to continue the operation of the treatment system(s) or to modify the site rehabilitation; and
	(f) The annual status report information, summarized on Form 62-770.900(5).
15.13	If effluent concentrations or air emissions exceed those in the approved Remedial Action Plan, or excessive plume migration occurs during remediation system startup or during operation of the treatment system, corrective actions shall be taken and ERM shall be notified by the responsible party within seven days. If the condition may represent a threat to human health, public safety or the environment, ERM shall be notified within 24 hours. Details of all such incidents shall be included in the annual status report described in Subsection 15.12
15.14	During implementation of the Remedial Action Plan, the responsible party may propose:
	(a) Supplemental assessment to determine alternative cleanup target levels pursuant to Chapter 62-770.650, F.A.C. During the supplemental assessment, active remediation shall continue;
	(b) Modifications to existing treatment or recovery system(s) pursuant to Subsection 15.12; or
	(c) Alternative technologies pursuant to Section 15.
15.15	Active remediation shall be deemed complete when the No Further Action criteria in Section 13, or the Natural Attenuation criteria in Subsection 14.01, have been met.
15.16	If the site does not meet the No Further Action criteria in Section 13, or the Natural Attenuation criteria in Section 14, discontinuation of active groundwater remediation shall be based on the following demonstration and analyses:
	(a) Contaminated soil has been properly removed and disposed, or treated in situ, so that the applicable soil cleanup target levels are met or addressed by the enactment and implementation of institutional controls or both institutional and engineering controls.
	(b) After a minimum of one year of groundwater treatment, concentrations of petroleum products' contaminants of concern in designated monitoring wells and recovery wells have leveled off. This demonstration must be based on subsequent monthly sampling results obtained for a minimum of 180 days, unless an alternative frequency has been approved. "Leveling off" shall mean that the graph of Total Volatile Organic Aromatics versus time generally fits a curve defined by the equation C = C <sub>r</sub> + C <sub>s</sub> e <sup>th</sup> , that the lower limb of the curve is substantially linear, and that the slope of the final portion of the curve approaches zero. If the petroleum contamination does not contain a representative amount of Total Volatile Organic Aromatics; then an alternative petroleum products' contaminant of concern shall be designated for application to the curve. Applicable statistical methods shall be applied to demonstrate this conclusion.
	(1) In the equation above, symbols are defined as follows:
	a. C: concentration of the applicable petroleum products' contaminant of concern at time t;

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		b. C; coefficient representing final concentration that the curve approaches asymptotically;
		c. C <sub>6</sub> : coefficient representing concentration difference between the final concentration and the concentration at time zero;
•		d. E: 2.718, the base of natural logarithms;
		e. K: coefficient representing the exponential factor that indicates how fast the concentration approaches $C_{ij}$
		f. T: time in days from some fixed starting point.
	(2)	The one year minimum treatment period may be shortened if, based on the criteria in Section 376.3071, F.S., it is demonstrated to ERM that a shorter time period is appropriate.
(0	) Anı	inalysis or demonstration has been made of:
	m	The technical feasibility of other proven groundwater or soil treatment techniques to further reduce the concentrations of applicable petroleum products' contaminants of concern at the site;
	(2)	The costs and time frames involved to further reduce the concentrations of applicable petroleum products' contaminants of concern employing the alternative method(s) proposed;
	(3)	The effects on the designated or potential use of the water resource if petroleum products' contaminants of concern remain at existing concentrations;
	<b>(4)</b>	The effect on, and any protection that may be required of, surface water resources;
	(5)	The effect on human health, public safety and the environment if petroleum products' contaminants of concern remain at existing concentrations;
	(6)	The extent and potential for further migration of contaminated groundwater above background concentrations or applicable cleanup target levels; and
	(7)	Institutional controls or both institutional and engineering controls that may be necessary to ensure protection of the public and the environment from future use of contaminated groundwater.
(4	leve vali	active remediation monitoring must validate the assumptions justifying the ling off determination. If the justification for site rehabilitation is not lated during post active remediation monitoring, then the additional sement or remediation described in Section 15, may be required.
() rt W 1:	The results of the demonstration and analyses described in Subsections 15.16(a), (b) and (c), shall be compiled in a report and submitted by the responsible party to ERM for review. ERM shall determine, using the criteria specified in Subsection 15.16(c), whether modifications to the Remedial Action Plan are required pursuant to paragraph 15.14 to effect further treatment; however, if alternative methods are not required, active remediation shall be deemed complete.	
tc W	ERM p	ctive Remediation Monitoring Plan shall be submitted by the responsible party sursuant to the Post Active Remediation Monitoring described in Section 16, No Further Action criteria in Section 13, or the leveling off criteria in n 15.16, have been met.

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.01	Grow	induster monitoring shall be performed following the completion of active			
	Groundwater monitoring shall be performed following the completion of active groundwater remediation or soil remediation as described in Section 15. When active groundwater remediation has met the No Further Action criteria in Section 13, or the leveling off criteria in Subsection 15.16, a Post Active Remediation Monitoring Plan using the provisions of Subsection 16.04, and including analytical results demonstrating				
		conclusion, shall be submitted by the responsible party to ERM for review.			
6.02		licable portions of the Post Active Remediation Monitoring Plan shall be signed scaled by an appropriate registered professional pursuant to Section 9.			
6.03	Within 60 days of receipt of a Post Active Remediation Monitoring Plan or of additional information pursuant to Subsection 17.04, ERM shall:				
	<b>(a)</b>	Provide the responsible party with written notification that the Post Active Remediation Monitoring Plan was approved for the purpose of this Ordinance; or			
	<b>(b)</b>	Notify the responsible party in writing, stating the reasons(s) why the Post Active Remediation Monitoring Plan does not contain information adequate to support the conclusion, pursuant to Section 15, that the applicable cleanup target levels shall be achieved at the end of the monitoring period.			
16.04	The monitoring program shall be performed as specified in the Post Active Remediation Monitoring Plan approval, as follows:				
	(a)	A minimum of two monitoring wells are required:			
		(1) At least one well shall be located at the downgradient edge of the plume; and			
		(2) At least one well shall be located in the area(s) of maximum concentrations of petroleum products' contaminants of concern or directly adjacent to it if the area of highest groundwater contamination is inaccessible (for example, under a structure).			
	<b>(b)</b>	The monitoring period shall be a minimum of one year. However, if contamination was only present in the unsaturated zone during the site assessment and active remediation tasks, only one round of groundwater sampling is required;			
	(c)	The designated monitoring wells shall be sampled quarterly for analyses of applicable petroleum products' contaminants of concern that were present prior to the initiation of active remediation;			
	(d) The analytical results (laboratory report), chain of custody record form [Form 62-770.900(2)], table summarizing the analytical results and site map(ş) illustrating the analytical results shall be reported by the responsible party to ERM in a Post Active Remediation Monitoring Report within 60 days of sample collection; and				
	(c) If analyses of groundwater samples indicate that concentrations of applicable petroleum products' contaminants of concern exceed any action levels specified in the Post Active Remediation Monitoring Plan approval, the well or wells shall be resampled no later than 30 days after the initial positive result is known. If the results of the resampling confirm the exceedance(s), then a proposal shall be submitted by the responsible party to ERM to:				
		(1) Perform a supplemental site assessment and submit a supplemental Site Assessment Report pursuant to Section 10;			
		(2) Perform additional monitoring; or			

 $\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\24\\25\\26\\27\\28\\29\\30\\31\\22\\33\\34\\5\\36\\37\\38\\39\\40\\41\\42\\43\\44\\56\\57\\58\\59\\60\\61\end{array}$ 

		(3) Implement additional active remediation pursuant to Section 15.		
16.05	The 1 durin	emediation equipment shall be maintained in an inactive but operational status g the duration of post active remediation monitoring.		
	Following completion of monitoring pursuant to Section 16, two copies of a Site Rehabilitation Completion Report shall be submitted by the responsible party to ERM for review when the criteria for No Further Action pursuant to Section 13, have been met. Applicable portions of the Site Rehabilitation Completion Report shall be signed and sealed by an appropriate registered professional pursuant to Section 9. The Site Rehabilitation Completion Report shall contain documentation adequate to support the opinion that site cleanup objectives have been achieved.			
16.07	With infor	in 60 days of receipt of a Site Rehabilitation Completion Report or of additional mation pursuant to Subsection 17.04, ERM shall:		
	<b>(a)</b>	Provide the responsible party with notification that the Site Rehabilitation Completion Order approving the Site Rehabilitation Completion Report was approved for the purpose of this Ordinance; or		
	Ф	Notify the responsible party in writing, stating the reasons(s) why the Site Rehabilitation Completion Report does not contain information adequate to support the opinion that the cleanup objectives have been achieved. Site rehabilitation activities shall not be deemed complete until such time as a Site Rehabilitation Completion Report is approved.	• •	
Section	117	TIME SCHEDULES		
17.01	For site rehabilitation being performed at petroleum contamination sites eligible for state funded assistance under the Inland Protection Trust Fund, the time frames specified in this Ordinance do not apply.			
17.02	If site rehabilitation is being performed by ERM through the Petroleum Cleanup Preapproval Program or otherwise using funds provided by the Inland Protection Trust Fund, the time frames specified in the contract between the Department and ERM shall take precedence over the time frames set forth in this Ordinance.			
17.03	If the responsible party has entered into a Consent Order with the Department for site rehabilitation, the time frames and any alternative cleanup target levels set forth in the Consent Order shall take precedence over the time frames and cleanup target levels set forth in this Ordinance.			
17.04	Within 60 days of receipt of a written notification from ERM that a plan or report does not contain adequate information or that the information provided is not supported by the applicable criteria, the requested information shall be submitted by the responsible party to ERM.			
17.05	acti ERI mod sup the full rece add resy info pur	anodification of the time frame may be obtained by the responsible party for any on set forth in this Ordinance for good cause shown by requesting in writing that M make such a modification. The request shall specify which time frame(s) is to be tified, the amount of additional time required, and provide documentation porting the request. The request shall be received by ERM at least 20 days prior to time the action is to be initiated. If emergency situations at a site do not allow for a 20 days notice, the request shall detail such emergency situation. Within 20 days of sipt of a request for modification, ERM shall notify the responsible party if itional information regarding the request is needed. ERM shall notify the nonsible party in writing within 20 days of receipt of the request or of the additional mention as to whether modification of the time frame(s) will be allowed. For poses of this paragraph, good cause shall mean unanticipated events outside the trol of the responsible party.	4	
		에는 양동안 이 물건이 없다. 성장한 '영상성'에서 이 바라 이 밖을 얻는 것이 있는 것이 있		

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17.06 The failure of ERM to meet any time frame herein shall entitle the responsible party to compel compliance through the provisions of Section 403.412, F.S., or through such remedies as may be available and appropriate in circuit court. In no circumstances shall ERM's failure to meet any time frame herein be construed as approval of any plan or action by ERM.

#### Section 18 NOTICES

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When requested in writing by ERM, written notification shall be provided by the responsible party to ERM at least three days prior to performing field activities such as installing monitoring or recovery well(s), performing sampling, installing remediation equipment, or performing soil source removal activities, except as provided in Section 7. Personnel from ERM shall be allowed the opportunity to observe these field activities and to take split samples. Raw data shall be exchanged as soon as data are available. If ERM chooses to be present when the field activities are being performed, it shall be ERM's responsibility to confirm the field activities are being performed in accordance with the written notification.

#### Section 19 FORMS

The forms used in the Petroleum Contamination Cleanup Program are incorporated by reference in this Section. Each form is listed by rule number, which is also the form number, and with the subject, title, and effective date. Copies of forms may be obtained by writing to the State of Florida Department of Environmental Protection, Bureau of Petroleum Storage Systems, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, FL 32399-2400.

- 19.01 Form 62-770.900(1), Free Product Removal Notification Form for Petroleum or Petroleum Products (effective September 23, 1997).
- 19.02 Form 62-770.900(2), Chain of Custody Record (effective September 23, 1997).
- 19.03 Form 62-770.900(3), Petroleum or Petroleum Products Water Sampling Log (effective September 23, 1997).
- 19.04 Form 62-770.900(4), Remedial Action Plan Summary (effective September 23, 1997).
- 19.05 Form 62-770.900(5), Active Remediation Annual Status Report Summary (effective September 23, 1997).

#### Section 20 FEES

There are no fees required to be paid to ERM for the administration of this Ordinance.

#### Section 21 VIOLATIONS: ENFORCEMENT: PENALTIES

- 21.01 Failure to comply with the requirements of this Ordinance shall constitute a violation of a County Ordinance, and may be punished as provided in Section 125.69, F.S.
- 21.02 Violations of the provisions of this Ordinance may also be punished, pursuant to Section 162.21, F.S., as a civil infraction with a maximum civil penalty not to exceed five thousand dollars (\$5,000) per day, per violation.
- 21.03 Each day in violation of the provisions of this Ordinance is a separate violation.
- 21.04 In addition to the sanctions contained herein, the County may take any other appropriate legal action, including but not limited to emergency injunctive action, to enforce the provisions of this Ordinance.

21.05	If the owner of property which is subject to a violation of this Ordinance transfers the ownership of such property between the time the notice of violation was served and the time of the hearing and the alleged violator fails to make disclosure of said violation, the transfer creates a rebuttable presumption of fraud.			
21.06	Violations of this Ordinance may also be referred by ERM to the Groundwater and Natural Resources Protection Board (GNRPB) for corrective actions and civil penalties. Any person who is party to the proceeding before the GNRPB may appeal the Board's Order to the Circuit Court of Palm Beach County in accordance with Florida Appellate Rules. Funds collected pursuant to administrative penalties levied by the GNRPB for violations of this Ordinance shall be deposited in the Palm Beach County Pollution Recovery Trust Fund, or such other place as may be designated by Resolution of the Board of County Commissioners.			
21.07	.07 In order to provide an expeditious settlement that would be beneficial to the enforcement of this Ordinance and be in the best interest of the citizens of Palm Be County, the Director of ERM is authorized to enter into voluntary consent (settleme agreements with alleged violators. Any such agreement shall be a formal written consent agreement between ERM on behalf of Palm Beach County, by and through Director, and any such alleged violators, and shall be approved as to form and legal sufficiency by the County Attorney's Office. The agreement can be entered into at time prior to the hearing before the GNRPB.			
	(a)	Conditions. Such consent agreements may be conditioned upon a promise by the alleged violator to:		
		(1) Bring the parcel into compliance with this Ordinance and maintain it in that condition;		
		(2) Remit payment of a monetary settlement not to exceed the maximum amount allowed per violation, as set forth in this Ordinance;		
		(3) Remit payment for costs and expenses of the County for investigation and enforcement; and		
		(4) Any other remedies and corrective action deemed necessary and appropriate by the director of ERM to ensure compliance with this Ordinance.		
	(b)	The consent agreement shall not serve as evidence of a violation of this Ordinance and shall expressly state that the alleged violator neither admits nor denies culpability for the alleged violations by entering into such agreement. In addition, prior into entering into any such consent agreement, each alleged violator shall be apprised of the right to have the matter heard by the GNRPB in accordance with the provisions of this Ordinance, and that execution of the agreement is not required.		
	(c)	The consent agreement shall be valid and enforceable in a court of competent jurisdiction in Palm Beach County and shall abate any enforcement proceedings available to ERM for so long as the terms and conditions of such agreement are complied with. In the event the alleged violator fails to comply with the terms and conditions set forth in the executed agreement, the Director of ERM may either:		
		(1) Consider the consent agreement void and pursue any remedies available for enforcement of the applicable provisions of the Ordinance; or		
		(2) Initiate legal proceedings for specific performance of the consent agreement.		
21.08		Funds collected pursuant to a consent agreement shall be deposited in the Palm Beach County Pollution Recovery Trust Fund.		
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## Section 22 REPEAL OF LAWS IN CONFLICT

All local laws and ordinances of Palm Beach County in conflict with any provisions of this Ordinance are hereby repealed to the extent of such conflict.

Section 23 SEVERABILITY

If any section, paragraph, sentence, clause, phrase or word of this Ordinance is for any reason held by the Court to be unconstitutional, inoperative or void, such holding shall not affect the remainder of this Ordinance.

# Section 24 INCLUSION IN THE CODE OF LAWS AND ORDINANCES

The provisions of the Ordinance shall become and be made part of the code of laws and ordinances of Palm Beach County, Florida. The Sections of this Ordinance may be renumbered or relettered to accomplish such, and the word "ordinance" may be changed to "section", "article", or any other appropriate word.

### Section 25 EFFECTIVE DATE

The provisions of this Ordinance shall become effective upon filing with the Department of State.

APPROVED AND ADOPTED by the Board of County Commissioners of Palm

Beach County, Florida, on the 20 day of <u>Hay</u>, 2003.

ATTEST: DOROTHY H. WILKEN, CLERK	PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS
A DE A WIR AND REAL	A Line Line Line Line Line Line Line Line
By: O inde C. He Count Deputy Clerif 2. FLORID	Chairman
APPROVED AS TO FORM AND LEGAL SUFFICIENCY	<b>y</b>
By: Naucyf. Doba	
County Attorney EFFECTIVE DATE: Filed with the De	partment of State on the <u>23</u> day of
<u>May</u> , 2003.	

STATE OF FLORIDA, COUNTY OF PALM BEACH I, DOROTHY H, WILKEN, ex-officio Clerk of the Board of County Commissioners certify this to be true and correct copy of the original filed in my office on MAL 20, 2003 DATED at West Patm Beach, FL on 6/17/03 DATED at West Patm Beach, FL on 6/17/03 DOROTHY H, WILKEN, Clerk By: ALACHI ESOUN D.C.