0023225

From: <u>Mike Murray</u>
To: <u>Doug Wetmore</u>

Subject: Fw: revised ORV documents

Date: 02/22/2012 02:04 PM

Attachments: CAHA SM Table.v03.13.09.doc

CAHA ORV Alts A-F Matrix.Park edits.v03.13.09.doc

See below.

Mike Murray
Superintendent
Cape Hatteras NS/ Wright Brothers NMem/ Ft. Raleigh NHS
(w) 252-473-2111, ext. 148
(c) 252-216-5520
fax 252-473-2595

CONFIDENTIALITY NOTICE

This message is intended exclusively for the individual or entity to which it is addressed. This communication may contain information that is proprietary, privileged or confidential or otherwise legally exempt from disclosure.

----- Forwarded by Mike Murray/CAHA/NPS on 02/22/2012 03:59 PM -----

Sandra Hamilton/DENVER/NPS

To Mike Murray/CAHA/NPS@NPS

cc "Wetmore, Doug" <dwetmore@louisberger.com>, Jami Hammond/Atlanta/NPS@NPS,

lfox@louisberger.com

03/13/2009 05:41 PM

Subject Doursaled O

Re: revised ORV documents

Thanks, Mike.

Sorry to add to everyone's stress. I thought we were leaving alts A - E as they are on PEPC, except for those few items that need clarification or that are internally conflicting between the tables. And I thought we were including the additional proposals generated in committee discussion, such as self-contained camping, in the new Alt F.

Alts C - E have already gone through WASO level approval before being released to the committee/public and I have concerns about changing them now. I've only skimmed the new table, but if there are enough changes, and we can't include them in Alt F, then maybe we could consider making your revised E a new alt G. All this has budget and time implications and we should discuss as a group before going any further.

If everyone copied on this email (plus anyone from the park you want to include, Mike) will let me know when you could be available for a call Tues - Friday next week, I'll set one up. Thanks.

Sandy

Sandy Hamilton

0023226

National Park Service - Environmental Quality Division Academy Place

P.O. Box 25287 Denver CO 80225

PH: (303) 969-2068 FAX: (303) 987-6782 ▼ Mike Murray/CAHA/NPS

Mike

Murray/CAHA/NPS

To Sandra Hamilton/DENVER/NPS@NPS

Ifox@louisberger.com, "Wetmore, Doug" <dwetmore@louisberger.com>, Jami

03/13/2009 03:52 PM EST Hammond/Atlanta/NPS@NPS

Subject revised ORV documents

Sandy,

Here are two revised documents: 1) Species Management Table - new name to go with "Species Management Areas" (SMAs) and SM1 and SM2 protocols; and 2) ORV Alternatives Matrix. Had trouble with the imbedded table formatting in the latter document (e.g., the vertical text direction in the left hand column keeps changing itself back to horizontal; some of the rows kept overlapping each other, I'd fix it, then it would do it again on its own, etc.), so I gave up on trying to deal with formatting and tried to focus on the content. Hopefully, it is readable and Doug can clean up the formatting without losing any content. Left the revisions in Track Changes, so it is pretty messy unless you look at it in Final.

We've made revisions in the Species Management Table in a way to eliminate the need for the Alternative E Site Specific Plans for Bodie Island Spit, Cape Point, and South Point Ocracoke. For example, based on environmental stakeholder and wildlife agency feedback during the RegNeg, we eliminated the reduced buffers for pass-through corridors and identified it as an adaptive management issue to determine if reduced pass-though buffers are effective. Other aspects of the site specific plans (locations of access corridors during prenesting, vegetation management, social attraction for CWB, etc.) are now being addressed in the general species management table (e.g., as adaptive management issues) and therefore do not need to be described specifically for each site.

Also, made some revisions in the Alternative Matrix to incorporate as much language from the RegNeg as possible. Added some concepts to Alternative E that came up in the RegNeg (self-contained vehicle camping, park and stay at the spits and points during the night driving restriction, and differing treatment of village beaches for north and south villages), so that the concepts are included for consideration.

Will work on Routes and Areas Table over the weekend.





Mike Murray Superintendent Cape Hatteras NS/ Wright Brothers NMem/ Ft. Raleigh NHS (w) 252-473-2111, ext. 148 (c) 252-216-5520 fax 252-473-2595

CONFIDENTIALITY NOTICE

This message is intended exclusively for the individual or entity to which it is addressed. This communication may contain information that is proprietary, privileged or confidential or otherwise legally exempt from disclosure.

ORV Management Alternatives Matrix** Park edits 3/131/09

Cape Hatteras National Seashore

ORV Management Plan/Environmental Impact Statement

Manag ement Alternative A—No Action, Activit Continuation of Management y under IPSMS	Alternative B – No Action, Continuation of Management Under Consent Decree	Alternative C – Seasonal Management	Alternative D – Increased Predictability and Seasonal Management	Alternative E – Variable Access and Maximum Management	Alternative F	Formatted Table
All areas of the Seashore are potentially open to ORV access. Refer to Routes and Areas Table. The ORV corridor will be marked by posts placed approximately 150 feet landward from the average, normal high tide line, or if less than 150 feet of space is available at the vegetation or the toe of the remnant dune line; except as noted in the Interim Protected Species Management Strategy. The corridor width will fluctuate over time due to the dynamic nature of beach and surf. (Superintendent's Order #7).	Same as alternative A, except: In all locations not in front of the villages that are open to ORV use. NPS shall provide an ORV-free zone in the ocean backshore at least 10 m wide, wherever there is sufficient beach width to all an ORV corridor of at least 20 m above the mean high tide line, from March 15 to November 30.	General: ORV access would be prohibited in all areas of the Seashore except where ORV routes are specifically designated. Refer to Routes and Areas Table. An ORV route would be a designated location where ORV travel may be authorized by the Superintendent, but may be temporarily closed to ORV use to protect park resources, provide for visitor safety, or prevent user conflicts. An ORV corridor would be the actual physical demarcation of the route in the field, generally using carsonite posts. Corridor Marking: ORV corridors along the ocean beach or sound shoreline would be posted on the seaward side of the toe of dune or vegetation line and would extend to the high tide line (seaward side not posted). Where the ocean beach is at least 30 m wide above the high tide line, the corridor would be posted 10 m seaward of the toe of the dune. ORV routes through vegetated areas, such as interdunal roads and ramps, would be posted on both sides of the corridor. Seasonal Designation: Access to some ORV routes varies seasonally as indicated in Routes & Areas Table. Seasonal ORV closures of Species Management Areas (SMAs) and village beaches would occur March 15-October 14.	Same as alternative C, except: There would be no seasonal designation of routes (i.e., there would only be year-round designations).	Same as alternative C, except: Seasonal Designations: Would occur as indicated in Routes and Areas Table. Seasonal ORV closures of SMAs would occur March 15 – August 31 and of village beaches would occur as described in next section of this table. Site Specific Measures: When prenesting closures are implemented at Bodie Island Spit, Cape Point and South Point Ocracoke, an initial ORV corridor would be established. Refer to Site Specific Plans for these sites. Upon the first observation of breeding activity, the standard buffers will apply which depending upon the circumstances may close the access corridor.	Same as alternative C, except: Seasonal Designations: Would occur as indicated in Routes and Areas Table. Seasonal ORV closures of SMAs would occur March 15 – July 31 and of village beaches would occur as described in next section of this table. Site Specific Measures: When prenesting closures are implemented at Cape Point and South Point Ocracoke, an initial ORV corridor not more than 50 m wide would be established. Upon the first observation of breeding activity, the standard buffers will apply, which depending upon the circumstances may close the access corridor.	Formatted: Space After: 6 pt Formatted: Space Before: 0 pt, After: 0 Don't adjust space between Latin and Asia Formatted: Indent: Left: 0", Space Beforet pt Formatted: Space Before: 0 pt, After: 0 Formatted: Space Before: 0 pt, After: 0 Don't adjust space between Latin and Asia Formatted: Font: Not Italic Formatted: Font: Not Italic Formatted: Font: Not Italic Formatted: Font: Not Italic Formatted: Font: Not Italic Formatted: Font: Not Italic

Park edits 3/1<u>3</u>1/09

			1 at K tuits 3/1	<u>5</u> 4/07				
	"Village beaches," as identified				Village beaches would be closed to	Village beaches would be closed to		Formatted: Space Before: 6 pt, After: 0 pt
	below, are seasonally closed to				ORV use, as described below:	ORV use, as described below:	ا ســـ	Formatted: Bullets and Numbering
	ORV use from May 15 through September 15: - Bodie Island, Ramp 1 to 0.6		Village beaches would be closed to ORV use,		- Bodie Island from Ramp 1 to approx. 0.5 miles south of Coquina Beach and the beach fronting Buxton south to 0.4 miles north of	- Bodie Island from Ramp 1 to approx. 0.5 miles south of Coquina Beach and the beach fronting Buxton south	a \	Formatted: Indent: Left: 0.04", Hanging: 0.09", Space Before: 0.4 line, After: 0.4 line, Bulleted + Level: 1 + Aligned at: 0.04" + Tab after: 0.29" + Indent at: 0.29", Tab stops:
ဖွူ	miles south of Coquina Beach - Beaches fronting the villages of Rodanthe, Waves, Salvo, and		as described below: - Bodie Island from Ramp 1 to approx. 0.5		Ramp 43 would be non-ORV year- round.	to 0.4 miles north of Ramp 43 would be non-ORV year-round		0.14", List tab + Not at 0.29" Formatted: Bullets and Numbering
Village Beaches	Avon Same as	alternative A, except::	miles south of Coquina Beach and the beach		- Northern Hatteras Island village	- Northern Hatteras Island village beaches (fronting Rodanthe, Waves,	-H - H + H + H	Formatted: Bullets and Numbering
Sea	- Beach fronting Buxton south to - Beach	fronting Buxton south to	fronting Buxton south to 0.4 miles north of Ramp 43 would be non-ORV year-round.	All village beaches would be closed to ORV use year-round.	beaches (fronting Rodanthe,	Salvo, and Avon) would be closed to	6 I I I I I	Formatted: Right: 0.08"
ge E		e north of Ramp 43 is nally closed (Ramp 43 to	- Beaches fronting Rodanthe, Waves, Salvo,	to ORV use year-round.	Waves, Salvo, and Avon) would be	ORVs May 15 - Sept 15	$V/II_{ m c}$	Formatted: No underline
i ac		e north is open to ORVs)	Avon, Frisco, Hatteras Village, and Ocracoke		closed to ORVs May 15 - Sept 15	- Southern Hatteras Island village		Formatted: Indent: Left: 0.04", Hanging:
	- Ocracoke Island from 0.5 miles South of Ramp 67 to 0.25 miles		Island from 0.5 miles South of Ramp 67 to 0.25 miles North of Ramp 70 would be closed		- Southern Hatteras Island village beaches (fronting Frisco, Hatteras)	beaches (fronting Frisco, Hatteras) would be closed to ORVs March 1 -		0.09", Right: 0.08", Bulleted + Level: 1 + Aligned at: 0.04" + Tab after: 0.29" + Indent
	North of Ramp 70		to ORVs March 15 – Oct 14		would be closed to ORV use year- round	November 30 - Ocracoke Island from 0.5 miles	- 	at: 0.29", Tab stops: 0.14", List tab + Not at 0.29"
					- Ocracoke Island from 0.5 miles	South of Ramp 67 to 0.25 miles North of Ramp 70 would be closed to		Formatted: Bullets and Numbering
					South of Ramp 67 to 0.25 miles North of Ramp 70 would be closed	ORV use when campground is open		Formatted
					to ORV March 15 – Oct 31	(approx. April 1 - October 31)		Formatted: Bullets and Numbering
	Oceanside Access						. \\\\\	Formatted
								Formatted
	ORV access is provided via 17 oceanside ramps and access				Oceanside Ramps		M - M	Formatted: Font: (Default) Arial, 10 pt
	points located off NC-12.		,Oceanside Ramps	Sections of ocean beaches and ramps and interdunal roads would	Concentration Control Concentration	Sections of ocean beaches and ramps and interdunal roads would be	VI //E	Formatted: Font: (Default) Arial, 10 pt
	Ramps are numbered and		[See ORV Routes and Areas Table for	be designated as ORV routes as	details. Sections of ocean beaches	designated as ORV routes as indicated	MMM	Formatted
	identified on the Seashore's ORV		details.]Sections of ocean beaches and ramps	indicated for this alternative in the	and ramps and interdunal roads would	for this alternative in the Routes and	1111/1	Formatted: No underline
	route map as official vehicle access routes.		and interdunal roads would be designated as ORV routes as indicated for this alternative in the	Routes and Areas Table.	be designated as ORV routes as indicated for this alternative in the	Areas Table.		Formatted: Font: Not Bold, Italic
	Seashore staff maintains ramps		Routes and Areas Table.	¿Oceanside Ramps	Routes and Areas Table.		\\\\ <i>[</i> -	Formatted: Centered
	and signage.			[See ORV Routes and Areas Table for details.]			1 111	Formatted
				Tor dotano.			. \\	Formatted: Font: Not Bold
ıΩ							7 ///	Formatted: Space Before: 0 pt, After: 0 pt
Access					Ones del de Denone		. \ \\	Formatted: Font: Not Bold, Italic Formatted: Font: Not Bold, Italic
					Soundside Ramps		1//	·
ORV			Soundside Ramps		Soundside ORV access ramps to designated boat launch areas and			Formatted: Centered Formatted
0			EExisting soundside ORV access points would		Pole Road access to Cable Crossing	Same as alternative C, plus:	\sim	<u></u>
	Soundside Access		be designated as ORV routes and ramps would		and Spur Road would be designated	Bodie Island: Develop a new **		Formatted: Space Before: 6 pt, After: 0 pt Formatted: Font: Not Bold, Italic
	ORV access is provided via 18		remain open with sufficient maintenance for clear	Soundside Ramps	as ORV routes and remain open with sufficient maintenance for clear	soundside vehicular access point (ORV	1///	Formatted: Centered
	soundside access points located off NC-12.		passage and route signage to prevent impacts to vegetation.	Same as alternative A.	passage and route signage to prevent	or other).	11/1/	Formatted Formatted
				Same as alternative A	impacts to vegetation.	Ocracoke Island; Develop a new soundside access point approx. 0.65	7 IN V	Formatted: Underline
	Seashore staff maintains ramps and signage.		Signage/posts would be installed at the primitive	әатте ас аңеглануе А.	epen. The remaining soundside	south of Ramp 72 by establishing short	11/1/	Formatted: Font: Not Bold, Italic
			parking areas and boat launch areas to prevent damage to vegetation and other soundside		ramps would be closed to ORV use and small parking areas would be	ORV route perpendicular from ocean	/// ///	Formatted: Centered
			resources.		constructed to provide pedestrian	beach toward sound, ending in a small unpaved parking area with a trail	111/	Formatted: Font: (Default) Arial
					access to the water.	leading to the sound.	///	Formatted: Font: Not Italic, Underline
							/ \\	Formatted: Font: Not Italic
								Formatted: Space Before: 6 pt
							Y	Formatted: Space Before: 0 pt, After: 0 pt
1								Formatted: Right: 0.25"
1								

Park edits 3/1<u>3</u>1/09

		1 at K euits 5/1	21,00		
to to a bound Door to		<u>Interdunal Roads</u>		<u>Interdunal Roads</u>	
Interdunal Roads		Same as alternative A, plus:	Interdunal Roads		
One lane, interdunal routes have been designated as follows:	Same as alternative A	Existing interdunal roads would be maintained as needed to provide access to ORV areas. Pull-outs or road —widening would be provided where appropriate to provide safe passage.	Same as alternative A-	Same as alternative C , plus:	Same as alternative C
Bodie Island Ranger District ☐ None.	<mark>SS</mark> ame as alternative A	Same as alternative A	Same as alternative A	Bodie Island Ranger District □SSame as aAlternative A	Same as alternative A
Hatteras Island Ranger District					Same as alternative C, plus: Hatteras Inlet Spit:: - Re-route Pole Road toward the
Cape Point between Ramp 44 to	Same as alternative A	Same as alternative A, plus:			sound on west side of the Overwa
Ramp 45 Hatteras Inlet Spit from Ramp 55 to the inlet (includes Pole Road and Spur Road).	Same as alternative A	 Extend interdunal road west of Ramp 45 to new Ramp 49. Establish new Ramps 47 and 48off of interdunal road Make Pole Road two lanes wide? 	Same as alternative A Same as alternative A	Same as alternative <u>C</u> A, plus Extend interdunal road west of Ramp 45 to Ramp 49. Establish new Ramp 47 off of interdunal road.	Fan to provide natural barrier to be nesting area south of road. - Establish new interdunal road parallel to the beach, with SW an NE extensions, from the southern terminus of Pole to provide access False Point and inlet.
Ocracoke Island Ranger District None.	Same as alternative A	Same as alternative A	Same as alternative A	Same as alternative A	Establish interdunal road parallel to beach from Ramp 59 for 0.3 miles N toward the inlet

	Formatted: Centered
//	Formatted: Font: Italic
//	Formatted: Font: Italic
//	Formatted: Font: Not Bold, Italic
//	Formatted: Font: Italic
	Formatted: Centered
//	Formatted: Centered
$^{\prime \prime \prime}$	Formatted: Font: Not Bold, Italic
I/I	Formatted: Font: Italic
$\ \ \ $	Formatted: Centered, Space Before: 0 pt, After: 0 pt
/	Formatted: Indent: Left: 0", Hanging: 0.14", Tab stops: 0.14", List tab + Not at 0.25"
,	Formatted: Bullets and Numbering
	Formatted: Centered
	Formatted: Indent: Left: 0", Hanging: 0.13", Tab stops: 0.13", List tab + Not at 0.25"
//	Formatted: Bullets and Numbering
//	Formatted: Centered, Space Before: 0 pt, After: 6 pt
\	Formatted: Bullets and Numbering
_	Formatted: Indent: Left: 0.15", No bullets or numbering, Don't adjust space between Latin and Asian text
///	Formatted: Underline
$\ / \ $	Formatted: Centered, No bullets or numbering
	Formatted: Indent: Left: 0", Hanging: 0.15", Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: 0.15", List tab + Not at 0.25"
W /	Formatted: Bullets and Numbering
	Formatted: Indent: Left: 0", Hanging: 0.13", Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: 0.13", List tab + Not at 0.25"
Mill	Formatted: Bullets and Numbering
MIN	Formatted
ı Willi	Formatted: Font: Not Italic
1 1111	Formatted: Centered
	Formatted: Bullets and Numbering
	Formatted: Space Before: 0 pt, After: 0 pt
	Formatted
	Formatted: Bullets and Numbering
-	Formatted: Space Before: 1 line
-	Formatted
- //	Formatted
	Formatted: Bullets and Numbering
	i ormatted. bullets and Numbering

3

ORV Management Alternatives Matrix** Park edits 3/131/09

Park edits 3/1<u>3</u>1/09

ORV Routes	The ORV corridor will be marked by posts placed approximately 150 feet landward from the average, normal high tide line, or if less than 150 feet of space is available, at the vegetation or the toe of the remnant dune line; except as noted in the Interim Protected Species Management Strategy. The corridor width will fluctuate over time due to the dynamic nature of beach and surf. (Superintendent's Order #7)	Same as alternative A, except: In all locations not in front of the villages that are open to ORV use, NPS shall provide an ORV-free zone in the ocean backshore at least 10 m wide, wherever there is sufficient beach width to all an ORV corridor of at least 20 m above the mean high tide line, from March 15 to November 30.	ORV beach routes (corridors?) would be a designated area seaward from the toe of dune or vegetation line to high tide line.	Same as alternative C.	September 1 – March 11: ORV beach routes would be a designated area seaward from the toe of dune or vegetation line to high tide line. March 15 – August 31: ORV beach routes would be a designated area from 10 meters from the toe of the dune to the existing tide line in areas open to ORV use. Such backshore closures would be implemented only when there is sufficient beach width to allow an ORV corridor of at least 20 meters above the mean high tide line.	*
ORV-Use-Areas	All areas of the Seashere are open to ORV access. Refer to Routes and Areas Table.	Same as alternative A.	ORV access would be prohibited in all areas of the Seashore except where routes and areas are specifically designated. Access to ORV routes and areas varies seasonally. No ORV access provided to points and spits from March 15-October 14. Refer to Routes and Areas Table	ORV access would be prohibited in all areas of the Seashore except where routes and areas are specifically designated. Refer to Routes and Areas Table.	ORV access would be prohibited in all areas of the Seashore except where routes and areas are specifically designated. Access to ORV routes and areas varies seasonally. Limited ORV access provided to designated points and spits at certain times during the breeding season. Refer to Routes and Areas Table and Site-Specific Plans for Bodie Island Spit, Cape Point, and South Point Resource Areas.	

Formatted: Font: 10 pt

Formatted: Not Highlight

Formatted: Font: Bold, Italic

Formatted: Space Before: 6 pt, After: 0 pt

Formatted: Not Highlight

Formatted: Left, Space Before: 0 pt, After: 0 pt, Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin, Horizontal: 0", Wrap Around

Formatted: Not Highlight

Park edits 3/1<u>3</u>1/09

		1 at K cuits 3/1				
		An ORV Safety Closure would be implemented in the event of a clear and imminent threat of				Formatted: Font: (Default) Arial, 10 pt Formatted: Font: (Default) Arial, 10 pt
		significant bodily injury or death; and/or damage to personal property, including vehicles and their contents. Triggers that could justify a safety				Formatted: Font: (Default) Arial, 10 pt Formatted: Font: (Default) Arial, 10 pt
		closure include, but are not limited to:				
		- Deep beach cuts that block the beach from				Formatted: Font: (Default) Arial, 10 pt
		dune to surf with no obvious way around				Formatted: Bullets and Numbering
		- Obstacles, such as exposed stumps,				Formatted: Font: (Default) Arial, 10 pt
		shipwrecks, or debris that cannot be safely by- passed or that block the entire width of the beach and cannot be easily removed				Formatted: Indent: Left: 0", Hanging: 0 Bulleted + Level: 1 + Aligned at: 0" + Ta after: 0.25" + Indent at: 0.25", Tab stop
Safety closures apply		- Severe beach slope that puts vehicles in an				0.14", List tab + Not at 0.25"
safety. ORV safety cl		unsafe gradient position and increases the				Formatted: Font: (Default) Arial, 10 pt
established as neede safety conditions suc		chances of the loss of vehicular control - A high concentration of pedestrian users				Formatted: Font: (Default) Arial, 10 pt
on the beach or narro		<u>coupled with a narrow beach</u>				Formatted: Font: (Default) Arial, 10 pt
Narrow beaches are the beach widens. Sa	reopened as afety closures	Triggers do not include:				Formatted: Font: (Default) Arial, 10 pt
applicable only to OR pedestrian access is		- A narrow beach by itself		Same an alternative C. plus		Formatted: Font: (Default) Arial, 10 pt
pedestrian access is		- High tides which block access through		Same as alternative C_ , plus:		Formatted: Indent: Left: 0", Hanging:
	closures	portions of beaches occur periodically and predictably, and are an obvious, easily	Safety closures would not be	For village beaches that are open to ORV use during the winter season.		Bulleted + Level: 1 + Aligned at: 0" + Tafter: 0.25" + Indent at: 0.25", Tab sto
include:	Same as alternative A.	avoidable hazard	established. ORV drivers would	the village beaches must be at least	Same as alternative C	0.14", List tab + Not at 0.25"
include: Ramp 1 to Ramp 2		- Hazards blocking only a portion of the beach,	need to determine conditions and	30 m (100 ft) wide from the toe of the	Same as alternative C	Formatted: Bullets and Numbering
 1.8 miles south of Ramp 4 		where safe passage is available around the	safety and would drive at own risk.	dune seaward to mean high tide line in order to be open to ORV use.		Formatted: Centered
Buxton to Lighthouse		hazard.		order to be open to UKV use.		Formatted: Font: (Default) Arial, 10 pt
		ORV Safety closures established in areas open				Formatted: Font: (Default) Arial, 10 pt
 Northern boundary of Hatteras Village 	Frisco to	to ORV use as needed to address ORV and				Formatted: Font: (Default) Arial, 10 pt
 September 16 – May 	v 14: Hatteras	pedestrian safety considerations, including debris on the beach, narrow beaches, and congested				Formatted: Centered
Village		areas. sSafety closures would preclude ORV				Formatted: Font: (Default) Arial, 10 pt
■ 1.5 miles north of Ra	mp 67 to 1	access, while pedestrian and commercial fishing				
mile south of Ramp 8	59	access would be maintained through allmost				Formatted: Indent: Left: 0.03", Hanging 0.23"
		safety closures.				
		NPS law enforcement staff will monitor ORV				
		safety closures on a weekly basis. Sufficient				
		reduction or elimination of the conditions				Formatted: Font: 10 pt
		prompting the closure, so there is no longer an				
		imminent hazard, would constitute the trigger for re-opening a closure. Safety closures would be				Formatted: Font: 10 pt
		reopened when/if conditions improve as				
		determined by monitoring every two weeks by				
		Seashore law enforcement.				
			l .			

Park edits 3/1<u>3</u>1/09

		Same as alternative A, plus the following measures would apply:				Formatted: Font: 9 pt, Not Expanded by / Condensed by
	36 CFR § 4.20 RIGHT OF WAY An operator of a motor vehicle	- Vehicles must yield to pedestrians on all routes - When approaching or passing a				Formatted: Table Text, Space Before: 6 pt, Don't adjust space between Latin and Asian text, Pattern: Clear, Position: Horizontal: Left, Relative to: Column, Vertical: 0", Relative to: Paragraph Horizontal: 0.13" Wron Around
Pedestrian Safet <u>y</u>	shall yield the right of way to pedestrians, (saddle and pack animals, and vehicles drawn by animals). Failure to yield the right of way is prohibited. 36 CFR § 4.22 UNSAFE OPERATION (b) The following are prohibited: (3) Failing to maintain that degree of control of a motor vehicle necessary to avoid danger to persons, property or wildlife. No additional measures apply.	pedestrian(s) on the beach, ORVs shall move to the landward side of the available ORV driving in order to yield the wider portion of the beach corridor to the pedestrian(s).	Same as alternative C	Same as alternative C, plus: For village beaches that are open to ORV use during the winter season, the village beaches must be at least 30 m (100 ft) wide from the toe of the dune seaward to mean high tide line in order to be open to ORV use.	Same as alternative C	Paragraph, Horizontal: 0.13", Wrap Around Formatted: Font: 9 pt, Not Expanded by / Condensed by Formatted: Bullets and Numbering Formatted: Font: (Default) Arial, 10 pt Formatted: Left Formatted: Left, Don't adjust space between Latin and Asian text Formatted: Left Formatted: Left Formatted: Left Formatted: Left Formatted: Don't adjust space between Latin and Asian text Formatted: Don't adjust space between Latin and Asian text
		ramps, not in the tire tracks.				Formatted: Space Before: 0 pt, After: 0 pt, Don't adjust space between Latin and Asian text
Administrative ORV Closures	Beach in front of Cape Hatteras Lighthouse closed to ORV access. Buxton Woods road closed to ORV access. Same as alter	No administrative closures would be established. ORV routes would be designated as described in the Routes and Areas Table. (Buxton Woods road is a non-ORV area.)	Same as alternative C-	Same as alternative C-	Same as alternative C	Formatted: Font: (Default) Arial, 10 pt Formatted: Space Before: 0 pt, After: 0 pt
Ramp Characteristics	Ramp width and construction details vary. Current practice is to use shell/clay base material to provide firm driving surface where ramps crosses dune line Same as alter	Preferably, each ORV route would have an access ramp at either end of the route. Ramps would be 2-lanes wide with shell/clay base Standard regulatory signs and information boards at all ramps Gates at all ramps and access points Designated air down area with hardened surface (e.g., shell/clay base)	Same as alternative C-	Same as alternative C , plus for "highuse" ramps (to be determined); add toilet facility	Same as alternative C	Formatted: Not Highlight Formatted: Space Before: 0 pt, After: 0 pt Formatted: Centered, Don't adjust space between Latin and Asian text Formatted: Centered, Space Before: 0 pt, After: 0 pt, Don't adjust space between Latin and Asian text Formatted: Don't adjust space between Latin and Asian text

Park edits 3/1<u>3</u>1/09

			Tark cuits 3/1				
Wintering Closures	Suitable interior habitats at spits a Cape Point closed year round to a recreational users to provide for reforaging for all species. For examperement, such suitable habitats incephemeral ponds and moist flats a Point, Hatteras Spit, Ocracoke, an Island Spit. Actual locations of suit foraging and resting habitat may experiodically due to natural process	ull pasting and ple, at lude at Cape d Bodie table hange	Based on an annual wintering habitat assessment of the Resource Areas (RA) conducted per the guidelines of the Resource Protection Measures Table. Wintering closures are established within the respective RAs, while allowing an access corridor (pedestrian or pedestrian/ORV), the exact terminus and configuration to be determined by NPS resources management staff based on the annual habitat assessment.	Same as alternative C	Same as alternative C		Formatted: Space Before: 2 pt, Position: Horizontal: Left. Relative to: Column, Vertical:
Resource Protection Buffers	As identified in the Interim Strateg	As identified in the Interim S as modified by the Consent		SM1 as described in the Resources Protection Measures Table. Implement alternative SM1 at all locations.	SM1 and SM2 as described in the Resources Protection Measures Table. Implement SM1 at all locations, except implement SM2 at areas designated in Routes and Areas Table (Bodie Island Spit, Cape Point, North Ocracoke Spit, and South Point)		In line, Relative to: Margin, Horizontal: 0", Wrap Around Formatted: Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin, Horizontal: 0", Wrap Around
	ORV buffers are established for ol	oserved breeding behavior. See Resour	ces Protection Measures Table for SM1 and SM2 a	ternatives.			
ORV Permit Requiremeents	No <u>ORV</u> permits required .	Night Driving Permit required for ORV use from 10:00 p.m. – 6:00 a.m. September 16 – November 15.	ORVVehicle permit required-	Same as alternative C Vehicle permit required.	Same as alternative C Vehicle permit required.	Same as alternative C	Formatted: Left Formatted: Don't adjust space between Latin and Asian text Formatted: Left, Space Before: 0 pt, After: 0 pt
ORV Permit Distribution	n/a	Available in-person at various locations within the Seashore and on-line To follow Seashore guidelines to be developed	Same as alternative B, except:: Specific locations and on-line methodology will change Available in-person at various locations and on-line.	Same as alternative CC.	Same as alternative <u>C</u> C.	Same as alternative C	Formatted: Space Before: 0 pt, After: 0 pt, Don't adjust space between Latin and Asian text Formatted: Left Formatted: Don't adjust space between Latin and Asian text Formatted: Left, Space Before: 0 pt, After: 0
ORV Permit Issuance Requirements	n/a	ORV owner must sign permit to acknowledge understanding of the rules and must carry when beach driving during the restricted periodNight driving permit application process has an educational component and the permit contains restriction on light use.	ORV owner musts must complete educational program andread the rules and regulations governing ORV use at the seashere and complete a a written or on-line basic knowledge test examto receive permit. Permittee would The owner would sign for their permit to acknowledge understanding of the rules in acknowledgement that they understand the rules and that all drivers will abide by the rules and regulations governing ORV use at the seashore, including beach driving safety, and resource closure requirements	ORV owners must sign for the permit in acknowledgement that they understand the rules and that all drivers will abide by the rules and regulations governing ORV use at the seashore, including beach driving safety, and resource closure requirements Same as alternative C, except: No basic knowledge test required	Same as alternative C-	Same as alternative C	Formatted: Space Before: 0 pt, After: 0 pt Formatted: Left Formatted: Space Before: 0 pt, After: 0 pt
ORV Permit ANumber Limits	n/a	No limit on night driving permits	<mark>₩</mark> 0 limit	Same as alternative C-	Same as alternative C-	Same as alternative C	Formatted: Left Formatted: Centered Formatted: Right: 0.25"
							8

Park edits 3/1<u>3</u>1/09

			1 at K cuits 3/1	_				
ORV Permit <u>T</u> types	n/a	Night driving permit for Sept 16 – Nov 15	Annual permits would be available that would be valid for 12 months from date of purchase so as to span seasonal use.	Annual permits would be available. Valid for calendar year.	Annual and short-term permits (e.g., weekly) would be available, valid from date of purchase. A separate parkand-stay permit and self-vehicle (SCV) camping permit would be Night driving permits-required for those activities under this alternative.	Annual and short-term permits (e.g., weekly) would be available, valid from date of purchase.		
ORV Permit <u>F</u> fees	n/a	None	There would be an ORV permit fFee.s subject to cost recovery	Same as alternative C, except: (Falthough fee would be lower than alternative C due to decreased management costs under this alternative)	Same as alternative C, except: There would be a fee for the respective permits, subject to cost recovery. Fee for short-term permit would be less than fee for annual permit. Fees subject to cost recovery, with lower price for short-term or off-season permit (although fee would be higher than alternative C due to increased management costs under this alternative)	Same as alternative C, except: Fee for short-term permit would be less than for annual permit	+	Formatted: Left Formatted: Font: Not Italic
ORV Permit f Form	n/a	PNight driving permit is a brochure that, when in use, is to be placed on the dash in full viewto follow Seashore guidelines	Permit is issued to vehicle owner, along with a sticker to be affixed to vehicle in a manner approved by the NPS.	Same as alternative C-	Same as alternative C-	Same as alternative C	1 1 /	Formatted: Left, Space Before: 0 pt, After: 0 pt Formatted: Space Before: 0 pt, After: 0 pt
ORV Permit Revocation	n/a	Permit may be revoked for violation of applicable park regulations or terms and conditions of the permit. Night driving permit to follow Seashore guidelines	A permit may be revoked for violation of applicable park regulations or terms and conditions of the permit. Same as alternative B	Same as alternative BC.	Same as alternative BC.	Same as alternative B) ()	Formatted: Left Formatted: Centered Formatted: Left, Space Before: 0 pt, After: 0 pt Formatted: Space Before: 0 pt, After: 0 pt
Beach Parking on the Beach	Parking within routes is allowed in any configuration, as long as it does not obstruct traffic.	Same as alternative A.	Same as alternative A-	Parking within ORV routes is allowed, but only one vehicle deep. Stacking of vehicles in more than one row would be prohibited.	Same as alternative A-	Same as alternative A	7 1 1	Formatted: Left Formatted: Left, Space Before: 0 pt, After: 0 pt Formatted: Space Before: 0 pt, After: 0 pt

Park edits 3/1<u>3</u>1/09

Vehicle Carrying Capacity Determination	Vehicle carrying capacity would not be determined. None	Same as alternative A .	Carrying capacity would be established for all areas open to ORV use (to be determined) based on the miles of beach open at any particular location ir linear feet of beachfront and the following physical space requirements ("miles" refers to miles of beach open to ORV use): All locations, except Cape Point:: - Bodie Island Ranger District260 vehicles/mile (20 feet/vehicle) Cape Point: - 400 vehicles allowed within a 1 mile area centered on Cape Point. Carrying capacity is applicable year-round, with the focus being on peak use periods. Temporary exceptions to carrying capacity limits may be approved for events operating under a special use permit.	Same as alternative A-	Carrying capacity would be established for all areas based on their linear feet of beachfront and the following physical space requirements: Bodie Island Ranger District *260 vehicles/mile (20 feet/vehicle) Hatteras Island Ranger District *260 vehicles/mile (20 feet/vehicle); except: *Same as alternative CCape Point— 400 vehicles allowed—within a 1 mile area centered on Cape Point. Ocracoke Island Ranger District *175 vehicles/mile (30 feet /vehicle) Exceptions to carrying capacity limits may be approved for events operating under a special use permit.	Same as alternative C	+ + + + + + + + + + + + + + + + + + + +
Temporary Emergency Beach Closures	Temporary emergency closures established per Superintendent's Compendium and NPS policy.	In addition to beach closure restrictions under the Consent Decree, NPS retains the authority to implement a temporary emergency beach closure if any of the following conditions are observed: ORV traffic backing up on the beach access ramps, either on- or off-beach bound, which threatens to impede traffic flow ORV traffic on the beach is parked in such a way that 2-way traffic is impeded Multiple incidents of disorderly behavior are observed or reported	The NPS retains the authority to implement a temporary emergency beach closure if any of the following conditions are observed: - Carrying capacity is exceeded. - ORV traffic backing up on the beach access ramps, either on- or off-beach bound, which threatens to impede traffic flow ORV traffic on the beach is parked in such a way that 2-way traffic is impeded Multiple incidents of disorderly behavior are observed or reported	Same as alternative C-	Same as alternative C-	Same as alternative C	4

Formatted: Bullets and Numbering

Formatted: Font: Italic

Formatted: Bullets and Numbering

Formatted: Centered

Formatted: Space Before: 0 pt, After: 0 pt

Formatted: Indent: Left: 0", Hanging: 0.14", Space Before: 0.4 line, After: 0.4 line, Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: 0.14", List tab + Not at 0.25"

Formatted: Bullets and Numbering

Formatted: Centered, Space Before: 0 pt, After: 0 pt

Formatted: Centered

Formatted: Space Before: 0.4 line, After: 0.4

Formatted: Font: Italic

Formatted: Indent: Left: 0", Hanging: 0.14", Space Before: 0.4 line, After: 0.4 line, Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: 0.14", List tab + Not at 0.25"

Formatted: Bullets and Numbering

Formatted: Centered

Formatted: Bullets and Numbering

Formatted: Centered

Formatted

Formatted: Left

Formatted: Font: Not Italic

Formatted: Bullets and Numbering

Formatted: Bullets and Numbering

Formatted: Font: 10 pt

Formatted: Indent: Left: 0", Hanging: 0.14", Tab stops: 0.14", List tab + Not at 0.25"

Formatted: Bullets and Numbering

Formatted: Space Before: 0 pt, After: 0 pt

Formatted: Font: 10 pt

Formatted: Indent: Left: 0", Hanging: 0.13", Tab stops: 0.13", List tab + Not at 0.25"

Formatted: Bullets and Numbering

Formatted: Bullets and Numbering

Formatted: Font: 10 pt

Park edits 3/1<u>3</u>1/09

			1 at K cuits 5/1	_			
Seasonal Element related to Carrying Capacity Temporary Use of Non-ORV Areas	n/a	n/a	Under the terms and conditions of a permit, the Superintendent would have the discretion to authorize the following: - Temporary emergency use of non-ORV areas for ORV access if needed to by-pass sections of NC Highway 12 that are closed for repairs. - Temporary non-emergency use of non-ORV areas for ORV access to areas traditionally used by fishing tournaments that were established prior to January 1, 2009. - Temporary non-emergency use of non-ORV areas for ORV access to transport mobility impaired individuals to join their family or friends on a beach that is otherwise closed to ORVs. ORV use would be limited to the shortest, most direct distance between the nearest designated ORV route and the location of the gathering. Temporary use by ponessential vehicles would not be permitted within resource closures. Applicable March 15—October 14.	n/aSame as alternative C	Focus is on peak use periods during breeding season, but may be implemented any time need arises. Same as alternative C	Same as alternative C	Formatted: Space Before: 0 pt, After: 0 pt Formatted: Indent: Left: 0", Hanging: 0.14", Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: 0.14", List tab + Not at 0.25" Formatted: Bullets and Numbering Formatted: Centered Formatted: Centered, Space Before: 0 pt, After: 0 pt
Periodic Review of Carrying Capacity	n/a	n/a	Visitation, crowding, and safety monitored periodically to determine if implementation of carrying capacity is warranted. Once implemented, carrying capacity limits would be reviewed every 2 years.	n/a	Same as alternative C.		
Areas of Implementation	n/a	n/a	Would apply to all areas in the seashore. Carrying capacity requirements only implemented if increased visitation results in crowding threshold being met.	n/a	Same as alternative C.		

Park edits 3/1<u>3</u>1/09

Off-Road Vehicle Requirements	All vehicles operating in all areas of the Seashore must: Have a valid vehicle registration, insurance, and license plate. Vehicles must be street legal. ATVs prohibited from beach driving. Recommend "air down" of tires prior to driving on beach.	Same as alternative A-	Would be as follows: - All vehicles must be registered, licensed, and insured and comply with inspection regulations within the state, country or province where the vehicle is registered - Four-wheel drive vehicles are allowed - Two wheel drive vehicles are allowed after the operator obtains a special use permit - Motorcycles and all-terrain vehicles (ATVs) are prohibited - The Superintendent will determine the appropriateness of new vehicle technology for ORV use at the Seashore, which must be consistent with the vehicle requirements listed herein - Maximum of three axles for vehicles (does not include the axles on towed trailers) - Maximum of two axles for towed trailers - Maximum vehicle length is thirty (30) feet (does not include the additional length of a towed trailer) Tires must be USDOT, listed and/or approved ORV Right of Way Requirements would be as follows: - ORVs must yield right of way to pedestrians at all times - An ORV, exiting the beach via a Ramp or Interdunal Road has the right of way until reaching state-regulated roads - When traveling parallel to the ocean or sound, the ORV, with the water to its right side has the right of way	Same as alternative C-	Same as alternative C ₇ , except: - Motorcycles are prohibited on the ocean beachfront, but allowed at the soundside ORV access areas	Same as alternative C		
-------------------------------	---	------------------------	---	------------------------	---	-----------------------	--	--

_	Formatted: Font: Not Italic
`	Formatted: Space Before: 6 pt, No bullets or numbering
\	Formatted: Font: Not Italic
	Formatted: Font: (Default) Arial, 10 pt
\	Formatted: Indent: Left: 0.03", Hanging: 0.15", Space Before: 6 pt, Bulleted + Level: 1 + Aligned at: 0.25" + Tab after: 0.5" + Inden at: 0.5", Tab stops: 0.19", List tab + Not at 0.5"
\ \	Formatted: Bullets and Numbering
'	Formatted: Font: (Default) Arial, 10 pt
/	Formatted: Font: (Default) Arial, 10 pt
/	Formatted: Font: (Default) Arial, 10 pt
Ŋ	Formatted: Font: (Default) Arial, 10 pt
'	Formatted: Font: (Default) Arial, 10 pt
\ \	Formatted: Left, Don't adjust space between Latin and Asian text
/	Formatted: Font: (Default) Arial, 10 pt
/	Formatted: Bullets and Numbering
1	Formatted: Font: (Default) Arial, 10 pt
1	Formatted: Left
//	Formatted: Don't adjust space between Latin and Asian text
N	Formatted: Font: (Default) Arial, 10 pt
II	Formatted: Font: (Default) Arial, 10 pt
$\ $	Formatted: Font: (Default) Arial, 10 pt
I	Formatted: Don't adjust space between Latin and Asian text
W	Formatted: Font: (Default) Arial, 10 pt
M	Formatted: Font: (Default) Arial, 10 pt
W	Formatted: Left
W	Formatted: Font: (Default) Arial, 10 pt
$\ $	Formatted: Font: (Default) Arial, 10 pt
$\parallel \parallel$	Formatted: Font: (Default) Arial, 10 pt
W	Formatted: Font: (Default) Arial, 10 pt
W	Formatted: Font: (Default) Arial, 10 pt
$\ $	Formatted
\parallel	Formatted: Bullets and Numbering
\parallel	Formatted: Font: (Default) Arial, 10 pt
\parallel	Formatted: Font: (Default) Arial, 10 pt
	Formatted: Font: (Default) Arial, 10 pt
11	Formatted: No bullets or numbering
1	Formatted

Formatted: Bullets and Numbering
Formatted: No bullets or numbering

Park edits 3/1<u>3</u>1/09

			1 4111 64105 671	2,0>				
and Recommendations			Required Equipment: ORVs would be required to carry the following equipment. - A low-pressure tire gauge effective down to 5 psi - A shovel - A jack - A jack - A jack support - Trash bag or container - A flashlight - Copy of the current ORV regulations and map.					Formatted: Underline Formatted: Don't adjust sand Asian text Formatted: Font: (Defaul Formatted: Left Formatted: Indent: Left: Tab stops: 0.19", List tab Formatted: Bullets and N Formatted: Font: Italic
Equipment Requirements	Nonen/a	n/a Same as alternative A	Recommended Equipment: The following equipment is highly recommended but not required. - A full size spare tire - First aid kit - Fire extinguisher - Tow strap with loop ends, no hooks, with a rating capacity at or above the GVW of item being recovered or moved, unless vehicle is equipped with an operable electric or hand winch, Equipment Requirements:	Same as alternative C-	Same as alternative C-	Same as Alternative C		Formatted: Font: (Defau Italic, Underline Formatted: Underline Formatted: Font: (Defau Italic, Underline Formatted: Font: (Defau Formatted: Don't adjust and Asian text Formatted: Left, Space Ept Formatted: Space Before Don't adjust space between
Tire Pressure	Recommend "air down" of tires prior to driving on beach.	Same as alternative A	When driving on designated ORV routes, tire pressure must be lowered sufficiently to maintain adequate traction within posted speed limit. 20 psi <i>recommended</i> for most vehicles. The softer the sand, the lower the pressure needed. When you return to paved roads, inflate the tires to normal as soon as possible.	Same as alternative C	Same as alternative C	Same as alternative C	\$\frac{1}{2}	Formatted: Font: (Defaution of the Company of the C
Speed Limits	25 mph (unless otherwise posted) on park beaches for public and private vehicles. Speed limit in front of villages during off season (September 16 – May 14) on park beaches posted at 10 mph. Emergency vehicles exempt when responding to a call.	15 mph (unless otherwise posted) on park beaches May 15 – September 15 25 mph (unless otherwise posted) September 16-May 14	15 mph year-round, (unless otherwise posted, except:)- Emergency vehicles exempt when responding to a call-	Same as alternative C-	Same as alternative C-	Same as alternative C	#######################################	Formatted: Font: (Default Formatted: Left Formatted Formatted: Space Before Formatted: Font: (Default Font: (
	responding to a call.						_	Formatted Indent

7	Formatted: Don't adjust space between Latin and Asian text
1	Formatted: Font: (Default) Arial, 10 pt
1/	Formatted: Left
//	Formatted: Font: (Default) Arial, 10 pt
Ŋ	Formatted: Indent: Left: 0", Hanging: 0.19", Tab stops: 0.19", List tab + Not at 0.5"
//	Formatted: Bullets and Numbering
Ŋ	Formatted: Font: Italic
١	Formatted: Font: (Default) Arial, 10 pt
	Formatted: Font: (Default) Arial, 10 pt, Not Italic, Underline
1/	Formatted: Underline
//	Formatted: Font: (Default) Arial, 10 pt
$\ $	Formatted: Don't adjust space between Latin and Asian text
$\ $	Formatted: Left, Space Before: 0 pt, After: 0 pt
$\ $	Formatted: Space Before: 0 pt, After: 0 pt, Don't adjust space between Latin and Asian text
$\parallel \parallel$	Formatted: Font: (Default) Arial, 10 pt
$\ \cdot \ $	Formatted: Indent: Left: 0.03", Hanging: 0.15", Tab stops: 0.19", List tab + Not at 0.5"
ll_i	Formatted: Bullets and Numbering
N,	Formatted: Font: (Default) Arial, 10 pt
$I_{I_{i}}$	Formatted: Font: (Default) Arial, 10 pt
$\parallel \parallel$	Formatted: Bullets and Numbering
\parallel	Formatted: Font: (Default) Arial
\parallel	Formatted: Left
M	Formatted
M	Formatted: Space Before: 0 pt, After: 0 pt
M	Formatted: Font: (Default) Arial, Bold
M	Formatted: Font: (Default) Arial
M	Formatted: Font: (Default) Arial, 10 pt
II_I	Formatted
$\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	Formatted
${\it M}$	Formatted: Indent: Left: 0.25"
W	Formatted: Left
$\parallel \parallel$	Formatted: Left
	Formatted
M	Formatted: Space Before: 0 pt, After: 0 pt
	Formatted
W	Formatted
1	Formatted
١	Formatted: Bullets and Numbering

Park edits 3/1<u>3</u>1/09

			Tark turts 3/1	<u>5</u> 4/07			
Essential Vehicles	Essential vehicles are allowed in non-ORV areas, and within resource closures subject to guidelines in Essential Vehicles section of Appendix G of the USFWS, Piping Plover, Atlantic Coast Population, Revised Recovery Plan (USFWS 1996a). To the extent practicable, emergency response vehicle operators will consult with trained resources management staff regarding protected species before driving into or through resource closures; however, prior consultation may not always be practical.	Same as alternative A	Same as alternative A	Same as alternative A	Same as alternative A	Same as alternative A	Formatted: Font: (Default) Arial, 10 pt Formatted: Centered Formatted: Centered
Non-ORV Areas	None designated. Temporary and long-standing non-ORV areas closed to ORV use occur as a result of seasonal (village) closures, safety closures, and resource closures.	Same as alternative A-	Non-ORV areas would beas designated in in the ORV-Routes and Areas Table.	Same as alternative C-	Same as alternative C-	Same as alternative C	Formatted: Left Formatted: Don't adjust space between Latin and Asian text Formatted: Don't adjust space between Latin and Asian text
Parking Areas for Non-ORV Access	Parking is currently provided in 3264 park-maintained park-lots throughout the Seashore, totaling approximately 1,000 spaces.	Same as alternative A-	Preferably, each non-ORV area would have sufficient parking, boardwalks, or trails for access. New parking areas for the respective Action Alternatives would be identified in the Routes and Areas Table. Any new parking areas to be located near Non-ORV Areas and located away from eroding areas or potential inlet areas. Exact location of new parking areas would be determined based on engineering/compliance requirements, and would follow environmentally appropriate design	Same as alternative C-	Same as alternative C-	Same as alternative C	Formatted: Space Before: 12 pt Formatted: Left Formatted: Indent: Left: 0.02", Space Before: 6 pt Formatted: Left
Non-ORV Parking Area Characteristics	None	Same as alternative ANone	Establish standards/amenities for non-ORV parking areas. Could include: EEach new parking area adjacent to non-ORV areas site would have a boardwalk or other appropriate pedestrian route for crossing the dune. ENew Pparking areas with 50 2 100? (to be determined) or more parking spaces would have waste receptacles and toilet facilities.	Same as alternative CEach site would have a boardwalk or other appropriate pedestrian route for crossing the dune.	◆Each site would have a boardwalk or other appropriate pedestrian route for crossing the dune. □Same as alternative CParking areas with 50? 100? (to be determined) (SANDY TO CHECK WITH DSC) or more parking spaces would have waste receptacles and toilet facilities.	Esame as alternative C	Formatted: Bullets and Numbering Formatted: Not Highlight Formatted: Centered, Space Before: 0 pt, After: 0 pt Formatted: Space Before: 0 pt, After: 0 pt Formatted: Bullets and Numbering Formatted: Centered Formatted: Bullets and Numbering Formatted: Bullets and Numbering Formatted: Bullets and Numbering Formatted: Position: Horizontal: Left, Relative
							to: Column, Vertical: In line, Relative to: Margin, Horizontal: 0", Wrap Around Formatted: Not Highlight Formatted: Right: 0.25"

Park edits 3/1<u>3</u>1/09

			1 at K cuits 3/1	1 <u>5</u> 4/07			
Alternative Transportation	Alternative transportation is not provided at the Seashore.None	Same as alternative A-	Refer to Routes and Areas TableSame as Alternative A	Same as alternative A Refer to Routes and Areas Table	Refer to Routes and Areas TableDesignate and post boat landing zone ("drop-off") near inlet at Bodie Island Spit and South Point Ocracoke that could be used to drop off pedestrians if/when inlet shoreline is not otherwise closed to protect park resources. NPS to encourage water shuttle for this purpose; however, drop-off point is subject to closure on short notice if needed to protect park resources.	Same as alternative A	Formatted: Font: Arial Formatted: Space Before: 6 pt Formatted: Font: (Default) Arial, 10 pt Formatted: Font: (Default) Arial, 10 pt Formatted: Left, Space Before: 0 pt, After: 0 pt Formatted: Font: (Default) Arial, 10 pt Formatted: Space Before: 0 pt, After: 0 pt Formatted: Font: (Default) Arial, 10 pt Formatted: Centered Formatted: Left
Restroo m Facilities	Existing porta-pottics located through the seashere.	ghout Same as alternative	A. To be determined	To be determined	To be determined		
Pets	Per Per-36 CFR § 2.15, t:-The following are prohibited: Possessing a pet in an area closed to the possession of pets by the Superintendent. Failing to crate, cage, restrain on a leash which shall not exceed six feet in length, or otherwise physically confine a pet at all times. Pets are prohibited in all resource closures. Pets are prohibited, even if on a leash, from the landward side of the posts delineating the ORV corridor at the spits (Bodie, Hatteras, Ocracoke) and Cape Point.	Same as alternative A-	Same as alternative A, except : - Pets prohibited within 100 m of any resource closure during the breeding season or within any Nonbreeding Shorebird SMA. that pets, even if on a leash, are prohibited in Resource Areas from March 15 — October 15.	- Same as alternative <u>CA</u> , except pets prohibited in Resource Areas year-round.	Same as alternative C, except: - The 100m buffer for any resource closure would preclude pets in the access corridors at Bodie Island Spit, Cape Point, and South Point Ocracoke once pre-nesting closures are implemented until the end of the breeding season. A, except pets prohibited in Resource Areas March 15 – August 31. Pets prohibited in ORV pass-through zones.	Same as alternative C, except: - The 100m buffer for any resource closure would preclude pets in the access corridors at Bodie Island Spit, Cape Point, and South Point Ocracoke once pre-nesting closures are implemented until the end of the breeding season.	Formatted: Space Before: 0 pt, After: 0 pt Formatted: Space Before: 0 pt, After: 0 pt Formatted: Space Before: 6 pt, After: 0 pt Formatted: Indent: Left: 0", Hanging: 0.16", Tab stops: 0.16", List tab + Not at 0.25" Formatted: Bullets and Numbering Formatted: Indent: Left: 0", Hanging: 0.15", Tab stops: 0.15", List tab + Not at 0.25" Formatted: Bullets and Numbering Formatted: Centered, No bullets or numbering Formatted: Indent: Left: 0", Hanging: 0.19", Tab stops: 0.19", List tab + Not at 0.25" Formatted: Bullets and Numbering
Beach Fires	Per 36 CFR § 2.13, the Superintendent has authorized beach fires year-roundPermitted per-, with the following restrictions: - 36 CFR 2.13. Fires pProhibited 12:00 midnight to 6:00 AM year-roundper Superintendent's Compendium Section 2.13 Fires prohibited within resource closures	Same as alternative A, <u>plusplus:</u> - <u>ground f</u> Eires prohibited within 100 <u>meters yards</u> of <u>resource</u> <u>closures for sea</u> turtle nests protection areas.	Same as Alternative B, except: - May 1 – November 15, fires permitted only in front of Coquina Beach, Rodanthe, Waves, Salvo, Avon, Buxton, Frisco, Hatteras Village, and Ocracoke Day Use area - Non-fee educational fire permit required for beach fires year-round. - Beach fire policy would be subject to Periodic Review	Same as alternative C-	Same as alternative C-	Same as alternative C	Formatted: Indent: Left: 0", Hanging: 0.14", Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: 0.14", List tab + Not at 0.25" Formatted: Bullets and Numbering Formatted: Left Formatted: Space Before: 0 pt, After: 0 pt Formatted: Left, Indent: Left: 0", Hanging: 0.13", Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops: Not at 0.25"
							Formatted: Bullets and Numbering Formatted: Space Before: 6 pt, After: 0 pt Formatted: Indent: Left: 0", Hanging: 0.13", Tab stops: 0.13", List tab + Not at 0.25"

Formatted: Bullets and Numbering

Park edits 3/1<u>3</u>1/09

Per 36 CFR \$ 2.1.4, is prohibited on seashore beaches per some period in coupling to coupling the coupling as defined in 36 CFR \$ 1.4. is prohibited on seashore beaches per some period in the Superintendent's compendium. In areas open to ORV use, some as alternative A. except: Same a	Formatted: Space Before: 6 pt Formatted: Centered Formatted: Table Text, Space Before: 6 pt, After: 0 pt, No bullets or numbering Formatted: Table Text, Indent: Left: 0", Hanging: 0.08", Space Before: 0 pt, After: 0 pt, Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Don't adjust space between Latin and Asian text, Tab stops: 0.08", List tab + Not at 0.25" Formatted: Bullets and Numbering Formatted: Centered, No bullets or numbering Formatted: Centered Formatted: Centered Formatted: No bullets or numbering Formatted: Space Before: 6 pt Formatted: Font: 10 pt Formatted: Left
--	---

Park edits 3/1<u>3</u>1/09

		1					
	Commercial fishing at the Seashore is authorized and		Same as alternative A, plus may be authorized by special use permit to access non-ORV areas				Formatted: Font: Arial Formatted: Left
<u>ν</u> *	managed under a special use permit in accordance with 36 CFR § 7.58(b). Commercial fishing		and night driving restricted areas if there is no resource conflict. To be determined. Same as alternative A, except:				
Vehicles	vehicles are considered non- essential vehicles and are not authorized to enter resource		Commercial fishermen would not be required to obtain an ORV permit that would be required for recreational ORVs				Formatted: Not Highlight Formatted: Bullets and Numbering
ling \	closures. Permitted commercial fishermen are Au authorized by	Same as alternative A,	- Commercial fishing vehicles would be			Same as alternative C	Formatted: No bullets or numbering
l Fishing	are closed to recreational ORV	plus <u>:</u> aAre subject to night driving	authorized to enter non-ORV areas, except for full resource closures and lifeguarded beaches	Same as alternative C-	Same as alternative C-		Formatted: Font: (Default) Arial, 10 pt Formatted: Font: (Default) Arial, 10 pt
mercial	use, includingall ORV and pedestrian areas seasonal closures and safety closures; but	restriction in consent decree.	In areas outside of existing resource closures, the Superintendent would be able to modify, subject to terms and conditions of the fishing				Formatted: Indent: Left: 0", Hanging: 0.11", Bulleted + Level: 1 + Aligned at: 0" + Tab after: 0.25" + Indent at: 0.25", Tab stops:
Com	are not authorized to enter administrative closures at lifeguarded beaches, that are not		permit, the night driving restrictions for commercial fishermen who are actively				0.11", List tab + Not at 0.25" Formatted: Bullets and Numbering
	closed for resources protection.		engaged in authorized commercial fishing				Formatted: Not Highlight
	Treated as non-essential vehicles and may not enter resource		activity and can produce fish house receipts from the past thirty (30) days.				Formatted: Font: Italic
	and may not enter resource closures.		Herrito pact timely (55) days.				Formatted: Font: (Default) Arial, 10 pt
							Formatted: Centered
			A systematic review of data, annual reports, and				Formatted: Font: Arial
iew			other information would be conducted by NPS every 5 years, or after a major hurricane, to				Formatted: Font: Arial
Rev			evaluate the effectiveness of management				Formatted
Peridoci Review	<u>None</u>	Same as alternative A	actions in making progress toward the accomplishment of stated objectives. Periodic	Same as alternative C	Same as alternative C	Same as alternative C	Formatted: Centered
erid			Review could result in changes to the				
<u>«</u> I			management actions in order to improve effectiveness.				
			Chrodiveness.				
<u>t</u>					To be determined. Need to develop		
Law Enforcement (LE)			To be determined. Need to develop "LE1" and "LE2" enforcement measures and staffing levels to complement the SM1 and SM2 Resources Protection Measures (i.e., an SM1 site needs LE1 enforcement coverage; and SM2 site needs LE2)	To be determined. Need to develop "LE1" enforcement measures and staffing levels to complement the SM1 Resources Protection Measures	"LE1" and "LE2" enforcement measures and staffing levels to complement the SM1 and SM2 Resources Protection Measures (i.e., an SM1 site needs LE1 enforcement coverage; and SM2 site needs LE2)		
Staffing			To be determined	To be determined	To be determined		

Park edits 3/134/09

Materials			To be determined	To be determined	To be determined		
	Resource Protection						Formatted: Font: 12 pt, Not Highlight
	mododioc,						Formatted: Font: 12 pt, Bold
Resource Protection During Breeding Season	ORV buffers are established for shorebird prenesting areas and observed breeding behavior, sea turtle nests, and seabeach amaranth as described in the Interim Strategy Finding of No Significant Impact (FONSI).	ORV buffers are established for shorebird prenesting areas and observed breeding behavior, sea turtle nests, and seabeach amaranth as described in the Interim Strategy FONSI, as modified by the Consent Decree.	Breeding Shorebird Species Management Areas (SMA) would be identified and ORV buffers would be established for shorebird prenesting areas and observed breeding behavior, sea turtle nests, and seabeach amaranth as described in the Species Management Table. SMAs would be subject to Periodic Review. Would implement SM1 at all locations, except implement SM2 at Bodie Island Spit, Cape Point, and South Point Ocracoke.	Same as alternative C, except: Would implement SM1 at all locations	Same as alternative C, except: Would implement SM1 at all locations, except implement SM2 along with site specific plans at Bodie Island Spit, Cape Point, and South Point Ocracoke	Same as alternative C, except: Would implement SM1 at all locations, except implement SM2 at Cape Point and South Point Ocracoke	Formatted: Left, Don't adjust space between Latin and Asian text
Resource Protection During Nonbreeding Season	Suitable interior habitats at spits and at Cape Point closed year-round to all recreational users to provide for resting and foraging for shorebirds. Suitable habitats include ephemeral ponds and moist flats at Cape Point, Hatteras Spit, Ocracoke, and Bodie Island Spit. Actual locations of suitable foraging and resting habitat may change periodically due to natural processes.	Same as alternative A	Nonbreeding resource closures would be established at the points and spits based on an annual habitat assessment. Year-round non-ORV areas along the ocean shoreline outside of the villages, as identified in the Routes & Areas Table for the respective Action Alternatives, would be managed as Nonbreeding Shorebird SMAs. See Species Management Table.	Same as alternative C	Same as alternative C	Same as alternative C, plus: -,"Floating" 1.5 miles of ocean shoreline habitat between Salvo and Avon (in addition to Ramp 27-30), based on habitat assessment and nonbreeding surveys. -,"Floating" 1.5 miles of ocean shoreline between Ramp 45 and Ramp 49, based on habitat assessment and nonbreeding surveys. Access to be provided via interdunal road or upper beach route (where 50 m buffer can be maintained). -,"Floating" 1.0 miles of ocean shoreline between Ramp 72 and inlet, based on annual habitat assessment and nonbreeding surveys. Upper beach corridor will be used to by-pass to the 1.0 mile shoreline area, "Floating" nonbreeding shorebird areas would be subject to Periodic Review.	Formatted: Not Highlight Formatted: Font: (Default) Arial Formatted: Indent: Left: 0", Hanging: 0.08", Tab stops: 0.08", List tab + Not at 0.25" Formatted: Bullets and Numbering Formatted: Left, Space Before: 0 pt, After: 0 pt, Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin, Horizontal: 0", Wrap Around Formatted: Centered, Don't adjust space between Latin and Asian text Formatted: Not Highlight Formatted: Not Highlight Formatted: Font: (Default) Arial Formatted: No bullets or numbering Formatted: Font: (Default) Arial Formatted: Font: (Default) Arial Formatted: Right: 0.25"

Park edits 3/1<u>3</u>1/09

*This matrix is designed to display differences among alternatives, and actions common to all alternatives are not included in it. Actions common to all alternatives can be viewed on pp. xx-xx.

Colonial Waterbirds

DRAFT CAHA ORV ResProt Tables.1002v092508 rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

American Ovstercatcher

Formatted: Underline
Formatted: Underline
Formatted Table

Formatted: Header, Space Before: 0 pt,

Formatted: Underline

After: 0 pt

Formatted: Right: 0.51", Don't adjust space

between Latin and Asian text

Formatted: Underline, Font color: Black

Formatted: Font color: Black

Formatted: Centered, Right: 0.18", Don't adjust space between Latin and Asian text

Formatted: Underline

Formatted: Not Highlight

Formatted Table

Formatted: Font: 16 pt

Formatted: Centered

Formatted: Font: Not Bold

Formatted: Font: 14 pt, Not Bold

Formatted: Font: Not Bold. No underline

CAHA Species Management Table

Species Management 1 (SM1); Minimum of 8-10 Total biological field personnel. Will require larger longer lasting buffets with less monitoring and will alleviate the need for constant monitoring.

Species Management 2 (SM2): Maximum of 20-22 total biological field personnel. Buffers will be customized at the spits

and points towards bird presence and movement.

Common to all Action Alternatives

Definitions

urvey Time and

All Bird Species

Frequency

Pipina Plover

<u>Breeding Behavior</u>: Shorebird behavior that includes, but is not limited to, territorial behavior, courtship, mating, scraping, confirmed scrapes, and other breeding or nest building activities,

Human Disturbance: Any human activity that changes the contemporaneous behavior of one or more individuals of breeding or nesting Colonial Waterbirds, Piping Plover, Wilson's Plover, or American Oystercatcher. Behaviors indicating disturbance include defensive displays, alarm calls, flushing or leaving a nest or feeding area, and diving or mobbing pedestrians, dogs, or vehicles.

Periodic Review: A systematic review of data, habitat conditions and other information to be conducted by NPS every 5 years, or after a major hurricane, to evaluate the effectiveness of management actions in making progress toward the accomplishment of stated objectives. Periodic Review could result in changes to the management actions in order to improve effectiveness.

<u>Pre-Nesting Closure:</u> A kind of Resource Closure in which an area of suitable habitat is proactively closed to ORVs and pedestrians at the start of the shorebird breeding season to provide undisturbed habitat for bird breeding activities to occur.

Research Area: Area of suitable habitat set aside on a temporary or long-term basis (such as a study site or control plot) as part of a research project authorized by NPS under a research permit.

Resource Closure: Any area posted as closed to all public entry in order to protect wildlife, such as breeding and foraging shorebirds and bird and turtle nests, or vegetation from human disturbance.

Species Management Area (SMA): Area of suitable habitat that has had concentrated and recurring use by multiple individuals and/or multiple species of protected shorebirds during the breeding season or nonbreeding season, or concentrations of seabeach amaranth specimens, in more than one (i.e., two or more) of the past five years and is managed to reduce or minimize disturbance. Currently designated SMAs are listed at the end of this table. SMAs will be re-evaluated and re-designated every 5 years, or after major hurricanes, as part of the Periodic Review process.

Breeding Shorebird SMA: Area of suitable breeding habitat that has had multiple nests of individuals and/or multiple species of protected shorebirds, or concentrations of seabeach amaranth specimens, in more than one (i.e., two or more) of the past five years and is managed to minimize human disturbance during the breeding season.

Formatted: No underline

Formatted: Bullets and Numbering

Formatted: Underline

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

Nonbreeding Shorebird SMA: Area of suitable nonbreeding habitat that has had concentrated foraging by migrating/wintering shorebirds in more than one (i.e., two or more) of the past five years and is managed to reduce to human disturbance during the nonbreeding season. This may include portions of breeding SMAs that provide suitable nonbreeding habitat during periods of overlap between the breeding and migrating season and designated non-ORV areas that are set aside to provide pedestrians with the opportunity for a natural beach experience.

Species Management 1 (SM1): An approach to shorebird protection during the breeding season that will use larger, longer lasting buffers with less monitoring to reduce the need for more frequent monitoring and fencing changes.

Species Management 2 (SM2): An approach to shorebird protection during the breeding season that will use smaller buffers and require more frequent monitoring and fencing changes when an ORV or pedestrian access corridor is open at designated locations during the breeding season.

		Shorebirds	3 ////
Management Activity	Piping Plover (PIPL)	American Oystercatcher (AMOY) and Wilson's Plover (WIPL)	Colonial Waterbirds (CWB): includes Least Terns (LETE) Common Terns (COTE) Gull-billed Terns (GUTE); and Black Skimmers (BLSK)
Pre-Nesting Surveys	By March 1: Evaluate, all potential breeding habitats will have been evaluated. and recommend PIPL perennesting celosures will be recommended based upon that habitat evaluation. Those closures will installed by March 15. March 15 – July 15 Seurvey pre-nesting closures recent breeding areas (last three years) athree times per week (or every other day). Outside of pre-nesting closures, survey suitable habitat 2 times per week; increase to 3 times per week once birds are present. Survey potential new and or former habitat two times per week.	March 15 – July 15 S-survey pre-nesting closuresrecent 3 times-breeding areas (last three years) two times per week. —Outside of pre-nesting closures, survey suitable habitat 2 times per week; increase to 3 times per week once breeding pairs are present Turtle patrol will take ever monitoring after July 15 th - If an AMOY nests in a pre- nesting elecure at one of the points or spits in an area which requires an expanded buffer (e.g., nest inside pre-nesting closure but buffer not adequate)	May 1 – July 15 Survey pre-nesting closures 3 times per week. Outside of pre-nesting closures, survey suitable habitat 2 times per week; increase to 3 times per week once breeding pairs are present. survey recent breeding areas (last three years) two times per week. Turtle patrol will take over monitoring after July 15 th . If a colony is established in a pre-nesting closure at one of the points or spits in an area which requires an expanded buffer (e.g., colony inside pre-nesting closure but buffer not adequate) and the colony is over-washed or predated, the buffer expansion shall be removed to the established pre-nesting closure.

and the nest is over-washed or

Formatted: Header, Space Before: 0 pt, After: 0 pt Formatted Formatted: Font: Not Bold Formatted Formatted Table Formatted: Font: 16 pt Formatted: Centered Formatted: Space Before: 6 pt Formatted: Font: Bold Formatted: Space Before: 6 pt, Tab stops: 2.16". Left Formatted: Right: 0.51", Space Before: 0 pt, After: 0 pt Formatted: Font: Bold **Formatted** Formatted: Bullets and Numbering Formatted: Font: Bold Formatted: Font: Bold Formatted: Right: 0.02", Space Before: 6 pt Formatted: Right: 0.15", Space Before: 6 pt Formatted: Right: 0.51", Space Before: 6 pt Formatted: Right: 0.15" Formatted: Right: 0.18" **Formatted Formatted** Formatted: Right: 0.02" Formatted: Right: 0.18" Formatted Formatted: Right: 0.15" Formatted: No underline

Formatted: Right: 0.18"

Survey for Wilson's ployer during piping

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

Formatted: Header, Space Before: 0 pt,

After: 0 pt

Formatted: Right: 0.51"

plover surveys.

The PIPL pre-nesting areas will be surveyed 3 times per week if piping plovers are present in the area.

To mitigate disturbance to nesting birds, surveys may need to be curtailed.

Pre-nesting buffers will not be modified in cases where the beach erodes into the buffered habitat.

predated, the buffer expansion shall be removed to the established pre-nesting closure.

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Right: 0.18", Space Before: 6 pt, Don't adjust space between Latin and Asian

Pre-Nesting ClosureBuffers

All Species: All designated Breeding Shorebird SMAs will be posted as pre-nesting closures using symbolic fencing by March 15 at sites involving PIPL, WIPL, and/or AMOY; and by April 15 at sites involving only CWB. Configuration of specific pre-nesting closures will be based on annual habitat assessment. Pre-nesting closures will be reduced to become Nonbreeding Shorebird SMAs (as described later in this table), if no breeding activity is seen in the area by July 31, or two weeks after all chicks have fledged, whichever comes later. Pre-nesting closures will not be modified in cases where the beach erodes into the buffered habitat. ORVs, pedestrians, and pets are prohibited within all resource closures. Pets are prohibited within 100 m of all pre-nesting closures.

<u>SM1: Pre-nesting closures at the points, spits, South Beach and resource area closures will not allow ORV or pedestrian access.</u>SM1: Areas designated as SM1 will not allow ORV or pedestrian access during the pre-nesting period.

SM2; Areas designated as SM2 may have a narrow ORV (where permitted) or pedestrian access corridor until breeding activity is observed. The ORV access corridor will generally be no more than 50 m wide above the high tide line. An SM2 pedestrian access corridor will generally be below the high tide line and in no case greater than 10 m above the high tide line. Pets, kite flying, ball and Frisbee tossing are prohibited in the access corridors while the pre-nesting closure is in effect. Upon the first observation of breeding activity, the standard buffers (Table 1) will apply, which depending upon the circumstances may close the access corridor.

SM2 Sites: Bodie Island Spit, Cape Point and South Point Ocracoke are designated as SM2 sites. (The specifics of whether ORV access would be allowed vary between alternatives E and F. See Routes & Areas Table.). Designate an ORV and/or pedestrian access corridor-For Bodie Island Spit, the access corridor would follow the eastern ocean shoreline to the inlet. For Cape Point, the corridor would be from Ramp 44 south along the ocean shoreline. For South Point, the corridor would be from Ramp 72 south along the ocean shoreline which may include a pass through or boat delivery system (water taxi) to designated points and spits. Outside of corridor, prohibit pedestrian access to breeding areas beyond the resource area closures. Delineate the corridor with posts placed up to 100 feet above the high tide line or as designated in a site specific plan (e.g., Bodie Island Spit, Cape Point, and South Point). No pets would be allowed in the pass through corridors or at the points and spits. At other resource area closures no ORV or pedestrian corridors would be designated, due to the narrow beach width of these areas.

Comment [MSOffice1]: This only applies if no PIPL breeding activity has been observed at all. For example, this year we did not have any breeding activity at Hatteras Inlet and it would have been nice to pull it earlier. We still had AMOYs in the area that would have required an appropriate buffer.

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Underline

Formatted: Right: 0.18"

Formatted: Right: 0", Space Before: 6 pt, After: 6 pt, Don't adjust space between Latin

and Asian text

Formatted: Underline

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Right: 0.18", Space Before: 6 pt, After: 6 pt. Don't adjust space between Latin

and Asian text

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

DRAFT CAHA ORV ResProt Tables.1002v092508 rev1 ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 Formatted: Header, Space Before: 0 pt, After: 0 pt Pre-nesting closures may be modified at anytime as long as minimum buffers are maintained around breeding birds of all-Formatted: Right: 0", Space Before: 6 pt, After: 6 pt Formatted: Right: 0.18" In February or March of each year, NPS SM1:Pre-nesting closures with SM1 & SM2: Pre-nesting closures will not be natural resource staff will conduct an established for CWB. recent breeding activity would be Formatted: Right: 0.18", Don't adjust space annual assessment of piping plover installed by March 15. Closures between Latin and Asian text breeding habitat to plan pre-nesting will be removed if no breeding Note: CWBs do not return to exactly the same Formatted: Underline closures in recent breeding areas that activity is seen in the area by location every year making it difficult to Formatted: Underline July 15 or when area has been are adapted to current habitat and physiographic conditions. Recent abandoned for a 2-week period, Formatted: Right: 0.18" SM1. Also most will be in Resource Areas. breeding areas will be closed by posting whichever comes later. Comment [MSOffice3]: This only applies if symbolic fencing by March 15. Closures will be removed if no breeding activity is SM2: Pre-nesting closures will no PIPL breeding activity has been observed at all. For example, this year we did not have any not be established prior to the breeding activity at Hatteras Inlet and it would seen in the area by June 15 or when bird's arrival have been nice to pull it earlier. We still had area has been abandoned for a 2-week AMOYs in the area that would have required an period, whichever comes later. appropriate buffer. Formatted: Underline Comment [MSOffice2]: This only applies if no PIPL breeding activity has been observed at all. For example, this year we did not have any breeding activity at Hatteras Inlet and it would have been nice to pull it earlier. We still had AMOYs in the area that would have required an appropriate buffer. Survey pre-nesting closures 3 times per week. Outside of pre-nesting closures, survey suitable habitat 3 times per week once breeding path Formatted Table Courtship/Mating

are present. If species are observed exhibiting territorial or courtship behavior during two separate observations in recent breeding

habitat, observe three times per week. If scrapes are observed in the absence of courtship behavior, survey three times per week.

Survey potential new habitat two times per week.

Surveys:

Formatted: Right: 0.18"

Formatted: No underline

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

C	ourtship/Mating
	Buffers:

SM1/SM2: If breeding activity eourtship or copulation is observed outside of an existing cpre-nesting elosures,-establish or expand buffer to ensure 7550 m buffer for the observed birds.

Buffer will be increased in 50 m increments if human disturbance occursflushing occurs due to human disturbance.

Outside of pre-nesting areas, remove closure if no breeding activity is observed for a 2-week period, or when associated breeding activity has concluded.

Designate an ORV or pedestrian access corridor as identified for each alternative in the Use Areas Table. Pets restricted as identified for each alternative in the Alternatives Matrix.

SM1: If breeding activity is observed outside of an existing closure, establish or expand buffer to ensure 300 m buffer for the observed birds.

Pre-nesting closures will have already been established for the majority of returning birds. Pre-nesting closures will be evaluated to determine the adequacy of their placement. For observed activity outside of prenesting closures by pairs with known nesting history, bufferclosures will be established installed wwhen onethree separate observations of scraping or territorial behavior hasve been documented or if a scrape is being maintained. For birds with unknow nesting history, such buffers will be established when three such observations occur. Based on bird behavior and suitable habitat, a 300 meter buffer will be established around the bird activity.

SM2: If breeding activity is observed outside of an existing closure, establish or expand buffer to ensure 150 m buffer for the observed birds.

Buffer will be increased in 50 m increments if human disturbance occurs.

All: Outside of pre-nesting areas, remove closure if no breeding activity is observed for a 2-week period, or when associated breeding activity has concluded. For observed breeding activity outside of pre-nesting elosures by pairs of known nesting

SM1: If scraping is observed outside of an existing celosures, establish or expand buffer to ensure 300 m buffer for the observed birds. a 300 meter buffer will be established around the scrape locations. Closure establishment will be based on the locations of scrapes and not locations for copulation or "fish flashing".

SM2: If scraping is observed outside a resource closure, establish a 100 m buffer for LETE and a 200 m buffer for other CWB species around the scrape location.

Buffer will be increased in 50 m increments if human disturbance occurs.

All: Closure establishment will be based on the location of scrape(s) and not location of copulation or "fish flashing".

Outside of pre-nesting areas, remove closurevit no breeding activity is observed for a 2-week period, or when associated breeding activity ha concluded. with a 50 m 100 m buffer will be established for least terns and 1200 m for all other colonial waterbirds (i.e. common terns, a billed terns, and black skimmers).

At the points and spits provide a pass through corridor for pedestrians and ORVs above the high tide line if the buffer allows for it and does not occur in the intertidal zone. No pet will be allowed in the pass through corridor or at the spits and points.

Designate an ORV or pedestrian access corridor as identified for each alternative in the Use Areas Table. Pets restricted as identified for each alternative in the Alternatives Matrix.

Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted **Formatted Formatted Formatted** Formatted **Formatted** Formatted **Formatted Formatted Formatted**

Formatted

Formatted

Formatted

Formatted

Formatted

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1 ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 Formatted: Header, Space Before: 0 pt, After: 0 pt history, closures will be installed when one observation of scraping or territorial behavior have been documented or if a scrape is being maintained. Based on bird behavior and suitable habitat, a 150 meter pedestrian/ORV buffer or a 75 meter buffer ORV pass-through buffer will be established around the bird activity. For observed breeding activity outside Formatted: Table Text, Don't adjust space between Latin and Asian text of pre nesting closures by pairs of unknown nesting history, closures Formatted: Font: 12 pt, Underline will be installed In newly occupied habitat, closures will be installed when three separate observations of scraping or territorial behavior have been documented or if a scrape if being maintained. Based on bird behavior and suitable habitat. A 150 meter buffer will be established around all the areas of activity. a 150 meter pedestrian/ORV buffer or a 75 meter buffer ORV pass through buffer will be established around the area(s) of activity. Designate an ORV orand pedestrian Formatted: Table Text accesspass through corridor as identified for each alternative in the Use Areas Table. Pets restricted as identified for each alternative in the Alternatives Matrix.to allow access to points and spits. Outside of corridor-DRAFT: CAHA ORV ResProt Tables 1002092508 rev1.doc 6

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1 ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 Formatted: Header, Space Before: 0 pt, After: 0 pt prohibit pedestrian access to breeding areas beyond the resource area closures.

Nest ing Surveys:	Conduct "walk through" to look for nests every 3 days. Once nests are found, observe nestse daily from a distance that	Observe nests at least three times per week from a distance. SM1: Observe nests at least 3three times per week from a distance. For	Colonies will be surveyed by foot during the "peak" nesting period which is during the last week of May and the first week of June. Observe colonies at least three times per week	\	Formatted: Right: 0.18", Tab stops: 2.18", Left Formatted: Right: 0.18", Don't adjust space between Latin and Asian text
	does not disturb the birds, based on professional judgment. Approach nestse once per week to observe and record data.	incubating birds that cannot be observed from a distance, check nests on a weekly basis (or as staff is available). SM2: Observe nests daily from a distance that does not disturb the birds, based on professional judgment. For incubating birds that cannot be observed from a distance, check nests every three days.	from a distance. SM1: Observe colonies at least 3 times per week from a distance. For incubating birds that cannot be observed from a distance, check colonies on a weekly basis. SM2: Observe nests daily from a distance that does not disturb the birds, based on professional judgment. For incubating birds that cannot be observed from a distance, check colonies every 3three days. All: Colonies will be surveyed by foot during the "peak" nesting period which generally is during the last week of May and the first week of June, but could be later, especially for BLSK.		Formatted: Underline Formatted: Right: 0.18" Formatted: Underline Formatted: Right: 0.18", Don't adjust space between Latin and Asian text Formatted: Underline Formatted: Underline Formatted: Underline Formatted: Font: Arial Formatted: Right: 0.18", Don't adjust space between Latin and Asian text Formatted: Underline
Nest ing Buffers:	In unprotected areas, a closure will be	etion to expand buffers under SM1 and SM2 established immediately when a nest (with exterior to expand nest buffers under SM1 and			Formatted: Font: 10 pt Formatted: Normal, Right: 0.18" Formatted: Right: 0.18", Don't adjust space

DRAFT: CAHA ORV ResProt Tables, 1002092508 rev1.doc

ormatted: Right: 0.18", Don't adjust space

between Latin and Asian text

DRAFT CAHA ORV ResProt Tables.1002v092508 rev1

***Draft Deliberative Document - Not for Release *** CAHA Species Management Table rev03/10/09

unprotected areas, a closure will be established immediately when a nest with egg(s) is found. Prior to hatching, vehicles may pass by such areas along designated vehicle corridors established along the outside edge of nesting habitat provided buffers adequate to prevent human disturbance are maintained. When nests or chicks occur in the immediate vicinity of paved roads, parking lots, campgrounds, buildings, and other facilities, NPS retains the discretion to provide resource protection to the maximum extent possible while still allowing those facilities to remain operational. NPS shall not reduce buffers to accommodate ORV ramp access. Buffers will remain in place for 2 weeks after a nest is lost to determine if pair will re-nest, if no other species nesting in area. Outside of pre-nesting areas, closures will be removed if no breeding activity is seen in the area for two weeks, or 2 weeks after all chicks have fledged, whichever comes later. After August 1, closures will be removed if all nesting is complete.

SM1 & SM2SM1 & SM2: Establish 7550-meter buffer/closure around piping plever-nest(s)-occurring outside existing closures. Buffer will be increased in 50 m increments if human disturbance occurs.

If flushing off nest due to human disturbance occurs, buffer will be increased If disturbance is observed expand closures using flexible increments dependent on observed bird behavior (until reaction)... If the buffer falls within the intertidal zone a full-beach closure will result.

Designate an ORV or pedestrian access corridor as identified for each alternative in the Use Areas Table. Pets restricted as identified for each alternative in the Alternatives Matrix.

Establish buffer/closure based on adult's reaction to human disturbance.

<u>SM1: Establish 300 m buffer/closure</u> <u>around nest(s).Buffer will be the same</u> <u>as for courtship and mating — 300</u> <u>meters.</u>

SM2: Establish 150 m buffer/closure around nest(s). Buffers around nests will be a minimum of 150 150 meters for pedestrians or 75 m for an ORV pass-through. If flushing off nest due to human disturbance occurs, b Buffer will be increased in 50 musing flexible increments if human disturbance occurs. dependent on observed bird behavior.

If the buffer falls within the intertidal zone a full-beach closure will result.

For nests that occur inside a pre-nesting closure and requires a buffer expansion of the pre-nesting area, if the nest is lost to overwash or predation, the buffer expansion may be removed to the original pre-nesting closure after 2 weeks with no breeding activity. Designate an ORV and pedestrian pass through corridor to allow access to points and spits. Outside of corridor, prohibit pedestrian access to

<u>SM1 & SM2</u>: Install closures immediately when a nest is located. Establish a buffer/closure based on adult's reaction to human disturbance

<u>SM1</u>: Buffer will be the same as for courtship and mating – 300 meters.

SM2: Establish 100 m buffer/closure around
LETE nests or colonyBuffers around nests or colony for pedestrians will be a minimum of 10100 meters for least terns-; and 200 meters buffer/closure around nests or colony if if the colony contains c any COTE, GUTE, or BLSKemmon terns, gull-billed terns or black skimmers are present. ; or, for an ORV pass-through, a minimum of 50-75 meters for LETE and 100 meters if other CWB present. around the nest or colony. If the buffer!f flushing off nest(s) due to human disturbance occurs, buffer will be increased using flexible increments dependent on observed bird behavior. Buffer will be increased in 50 m increments if human disturbance occurs.

If the buffer falls within the intertidal zone a full beach closure will result.

For a colony that occurs inside a pre-nesting closure and requires a buffer expansion of the pre-nesting area, if the nest is lost to overwash or predation, the buffer expansion may be removed to the original pre-nesting closure after 2 weeks with no breeding activity. If the colony contains common terns, gull billed terns or black skimmers.

Formatted: Header, Space Before: 0 pt,

After: 0 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Comment [MSOffice4]: This only applies if no PIPL breeding activity has been observed at all. For example, this year we did not have any breeding activity at Hatteras Inlet and it would have been nice to pull it earlier. We still had AMOYs in the area that would have required an appropriate buffer.

Comment [d5]: The majority of buffers specified by USGS and used by other nesting beaches only reference single studies without those studies being replicated by other researchers.

Formatted: Underline

Formatted: Right: 0.18", Don't adjust space between Latin and Asian text

Formatted: Underline

Formatted: Right: 0.06"

Formatted: Right: 0.06", Don't adjust space

between Latin and Asian text

Formatted: Underline

Formatted: Underline

Formatted: Underline

Formatted: Right: 0.18", Don't adjust space

between Latin and Asian text

Formatted: Underline

Formatted: Right: 0.18"

Formatted: Right: 0.06"

Formatted: Font: Arial

Formatted

Formatted

Formatted: Right: 0.18"

Formatted

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1 Formatted: Header, Space Before: 0 pt, ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 After: 0 pt a 200 meter buffer will be established. breeding areas beyond the resource area closures. Designate an ORV or Formatted: Font: Arial pedestrian access corridor as identified Designate an ORV and pedestrian pass through corridor to allow access to points and spits. Formatted: Right: 0.18" for each alternative in the Use Areas Table. Pets restricted as identified for Outside of corridor, prohibit pedestrian access each alternative in the Alternatives Matrix. Designate an ORV or pedestrian access corridor as identified for each alternative in the Use Areas Table. Pets restricted as identified for each alternative in the Alternatives Matrix. SM1 & SM2: Closures will be removed when Formatted: Right: 0.18", Don't adjust space areas have been abandoned for a two week between Latin and Asian text period. After August 1 the 2-week removal Formatted: Underline period will no longer be required for closure removal. Adult Foraging Formatted: Right: 0.07" Survey suitable breeding habitat 3 No additional buffers/closures. No additional buffers/closures. Surveys & Buffer: Formatted: Right: 0.18", Space Before: 6 pt times per week to monitor for adults with an associated scrape or nest Formatted: Right: 0.18" territory foraging outside of an existing closure. If observe foraging outside an existing closure, survey the site daily. If observe For breeding adults (with an associated scrape or nest territory) foraging outside of a closure on 2two consecutive surveys, establish or expand the buffer using flexible increments based on observed bird behavior to include foraging site. if the foraging area is associated with a pre-nesting closure. These closures are intended to provide foraging opportunities close to breeding sites. Remove closure if no foraging observed for a 2-week period during the breeding season.

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1

Dra	ft Deliberative Document – Not fo	r Release	agement Table rev03/10/09	Formatted	
	or when associated breeding activity			Formatted	···
	has concluded.			Formatted	
Unfledged Chicks	SM1: Observe brood once daily.	SM1: Observe brood at a minimum	SM1: Observe colony every other day.	Formatted	<u></u>
Surveys:		every other day.		Formatted	
	<u>SM2</u> : Observe brood <u>at least 1</u> hour each in am and pm daily.	SM2: Observe brood once daily for at	SM2: Observe colony daily.	Formatted	
	Have monitor(s) present during	<u>least ½ hour</u> .	All: Colonies will be surveyed by foot during the "peak" hatching period which should fall 21 days	Formatted	
	periods of ORV or pedestrian	All: Observations end once the chicks have fledgedAMOY cchicks are	after initial nest counts.	Formatted	
	access.	considered fledged if they have been	A follow-up survey (perimeter count) by foot ←	Formatted	
ļ	All: Observations end once chicks	observed to be proficient in flying or	should be conducted during the "peak" fledge	Formatted	
	have fledged. Chicks are considered fledged at 35 days or	observed in sustained flight of >30 m. WIPL chicks are considered fledged if	which should fall 20 days after hatch counts.	Formatted	
	are observed in sustained flight of	they are observed in sustained flight of	-days after hatch counts.	Formatted	
	>15 m.	>15 m.	SM1: Observe colony weekly.	Formatted	
			SM2: Observe colony at two-three day intervals.	Formatted	
			(Staff feels that higher frequency observations	Formatted	
			do not add to overall data)	Formatted	
			Observations end after no unfledged chicks	Formatted	
			have been observed on threewo consecutive	Formatted	
			surveys-occasions. Closure can be removed	Formatted	
			after all chicks have fledged.	Formatted	
Unfledged Chick	SM1: Establish a minimum 1000	SM1: Establish a 300 meter buffer	SM1: Establish 300 m buffer around nests or	Formatted	
Buffers:	meter buffer on either side of the	around nest when unfledged chicks are	colony. If chicks move outside of the buffer, it	Formatted	
	nest when unfledged chicks are	present. If chicks move outside of the	will be adjusted to include an additional 200 m	Formatted	
	present. brood based on observation of bird behavior and	buffer, it will be adjusted to include an additional 200 m from the chick(s)	from the chick(s) location. Ssame as courtship and mating — 300 meters. If	Formatted	
	terrain conditions at site (Insert	location. Closure willould be removed 2	chicks move outside of the buffer, it will be	Formatted	
	language from Appendix G). No	weeks after fledging.	adjusted will be adjusted to include an additional	Formatted	
	ORV or pedestrian access until all chicks have fledged.	<u>SM2</u> : Establish a 200 meter buffer around the <u>unfledged</u> chick(s) location.	200 meters from the chick(s) location outside of the closure.	Formatted	
	cnicks have fledged.	Include foraging and roosting habitat from	SM2: Establish a 200 meter buffer around the	Formatted	
		the ocean (low water line) to the dune (or	chick(s) locationAdjust buffer as needed	Formatted	
	SM2: Establish a 1000 m ORV	sound shoreline, if accessible).	when chicks are mobile	Formatted	
	buffer and where permitted a 300 m	Adjust/increase buffer as needed when chicks are mobile. Buffer moves with	Points and spits would only be accessible from	Formatted	
	pedestrian buffer on either side of		7 a.m,7 p.m. as long as unfledged chicks are	Formatted	

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1 ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 Formatted: Header, Space Before: 0 pt, After: 0 pt in the area and if buffers can be maintained. the nest when unfledged chicks are chicks. The 7 a.m. opening may be delayed until the present. Buffer moves with chicks. ORV access willould not be allowed until Formatted: Space Before: 0 pt, After: 6 pt chicks have been located. WIPL chicks have fledged or 2 weeks All: The buffer should extend the Formatted: Font: 10 pt after AMOY chicks have fledged prescribed distance on each side of Formatted: Right: 0.07", Don't adjust space (observed flight of 30 meters); a a line drawn through the nest site between Latin and Asian text pedestrian corridor may be established and perpendicular to the long axis of prior to 2 week requirement for access to Formatted: Font: 10 pt the beach. The resulting area of the points and spits. Formatted: Font: Arial protected habitat (2x the prescribed Points and spits would only be accessible distance) for PIPL chicks should Formatted: Space Before: 0 pt 7 a.m.- 7 p.m.during daylight hours as extend from the ocean-side low long as unfledged chicks are in the area water line to the sound-side low and if buffers can be maintained. The 7 water line or to the farthest extent of a.m. opening may be delayed until the dune habitat if no sound-side chicks have been located. intertidal habitat exists. SM2: *For the first two weeks after hatching Formatted: Space Before: 0 pt, After: 6 pt establish a 1000 meter buffer for ORVs and pedestrians on either side of brood. Based on observed behavior (i.e., mobility of the broad) and the capability to intensively observe mobility and behavior, at the discretion of park management, the buffer can be reduced after the first two weeks to no less than 500 m for ORVs and 200 m for pedestrians. It will be up to the discretion of the Park whether or not the area can be opened to pedestrians. If the chicks are highly mobile the 1000 meter buffer may need to be maintained. Buffer moves with chicks. prPoints and Formatted: Font: 10 pt spits would only be accessible from 7 a.m. AM-7 p.m. PM as long as unfledged chicks are in the area and if buffers can be maintained. The 7 a.m.AM opening may be delayed until if the chicks have been cannot DRAFT: CAHA ORV ResProt Tables, 1002092508 rev1.doc 11

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1 ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 Formatted: Header, Space Before: 0 pt, After: 0 pt be located. Formatted: Normal Formatted: Right: 0.18", Space Before: 6 pt, All Species: Vehicles and/or pedestrians may be allowed to pass through portions of the protected area that are considered After: 6 pt, Don't adjust space between Latin inaccessible to chicks because of steep topography, dense vegetation, or other naturally-occurring obstacles. Reopen access and Asian text corridor outside of pre-nesting area after chicks fledge (except for AMOYs where the area will remain closed for an additional 2 Formatted: Font: (Default) Arial weeks). Closures can be removed after July 31 or 2 weeks after all breeding activity has ceased or chicks have fledged, which ever is later. Formatted: Font: (Default) Arial Formatted: Font: (Default) Arial **Breeding Data** GPS will be used to document GPS will be used to document nest GPS will be used to document colony locations Formatted: Font: 10 pt Collected nest locations. Record the locations. Record the following data: Record the following data: (List) Formatted: Normal following data: (List) -Presence and abundance of birds Formatted: Highlight Presence and abundance of birds Presence and abundance of birds Formatted: Font: 10 pt, Italic Locations where territorial or courtship behavior occurs to Formatted: Indent: Left: 0", Hanging: 0.06", Tab stops: 0.06", List tab + Not at 0.25" include scrape locations. Formatted: Bullets and Numbering -Estimate where adult and chick foraging occurs. Chicks should Formatted: Indent: Left: 0". Hanging: 0.06". never be disturbed to obtain this Tab stops: 0.06", List tab + Not at 0.25" information. Formatted: Bullets and Numbering Formatted: Indent: Left: 0", Hanging: 0.11", Tab stops: 0.11", List tab + Not at 0.25" Nonbreeding NPS will monitor presence, abundance, and behavior of migrating and wintering shorebirds from July through May using the SECN Formatted: Bullets and Numbering protocol. Survey sites will include all Nonbreeding Shorebird SMAs. NPS will submit the equivalent of International Shorebird Survey Survey (ISS) data to NCWRC on an annual basis. Nonbreeding All Species: Nonbreeding Shorebird SMAs will be established for migrating/wintering shorebirds at various locations throughout the Shorebird SMAs Seashore. Such closures will be installed no later than when breeding season closures are removed at the same location(s). Pets will be prohibited within 100 m of all Nonbreeding Shorebird SMAs. Points and Spits: An annual habitat assessment will be conducted after all birds have fledged from the area. Nonbreeding resource closures will be established at the points and spits based on habitat used by wintering PIPLs in the past 3 years, the presence of birds at the beginning of the migratory season, and suitable habitat types based on the results of the annual survey. Actual locations of suitable foraging and roosting habitat may change periodically due to natural processes. Access to the inlet shoreline where permitted will be maintained by a corridor TBD by NPS Resources Management staff based on the annual habitat assessment. Ocean Shoreline Areas: In addition to the resource closures at the points and spits described above, NPS will establish non-ORV areas along the ocean shoreline for migrating and wintering shorebirds (open to pedestrians, unless closed for breeding birds or DRAFT: CAHA ORV ResProt Tables 1002092508 rev1.doc

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1 ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 Formatted: Header, Space Before: 0 pt, After: 0 pt other reasons) that will provide relatively less disturbed foraging, resting, and roosting areas for migrating and wintering birds. These may include wider sections of beach with an upper beach ORV corridor that has a buffer of at least 50 m above the high tide line: and/or sections of beach that have been designated as "non-ORV" for other reasons such as to provide pedestrians with opportunities for a natural beach experience. The following activities are generally compatible with migrating/wintering shorebird use of these areas: fishing, beach walking, birding, kayaking, kite boarding, paddle boarding, photography, picnicking, sailing, shelling, stargazing, sunbathing, surfing, swimming, wildlife viewing and wind surfing. If monitoring determines that any single activity or collection of activities is negatively impacting shorebird use of a specific location, NPS may implement additional restrictions on compatible uses. The location(s) of all ocean shoreline Nonbreeding Shorebird SMAs will be subject to Periodic Review. Adaptive The following adaptive management initiatives related to shorebirds or shorebird habitat have been identified: Management PIPL chick fledge rate: Develop an adaptive management study to evaluate the Interim Strategy performance target of one (1) Formatted: Font: (Default) Arial, 10 pt **Initiatives** fledged chick per breeding pair, as well as the productivity rates identified in the recovery plan, to determine if these rates Formatted: Bullets and Numbering provide for a growing population or are attainable at the Seashore over the long term. Formatted: Font: (Default) Arial, 10 pt PIPL chick buffer distance: As stated in the PIPL recovery plan, where several years of data documents that piping plovers on a particular site feed in only certain habitat types, FWS may provide written concurrence that vehicles pose no danger to plovers in other specified habitats on that site. NPS to develop an adaptive management study to evaluate whether a reduced ORV or pedestrian buffer distance (i.e., less than that stated in the plan) after a certain time period, such as two weeks after chicks have hatched, would be adequate to prevent disturbance of PIPL chicks by ORVs and/or pedestrians using adjacent areas during daylight hours. Pass-through buffers for all species: Develop an adaptive management study(s) to evaluate whether a reduced buffer distance Formatted: Bulleted + Level: 1 + Aligned at: is adequate to prevent disturbance caused by ORVs driving past PIPL, AMOY, or CWB nest sites, if all other recreation (e.g., 0" + Tab after: 0.25" + Indent at: 0.25". Don't adjust space between Latin and Asian pedestrians, pets, etc.) is prohibited within the reduced buffer; and to determine if a reduced buffer is adequate to prevent disturbance caused by pedestrians walking below the high tide line past PIPL, AMOY, or CWB nest sites. Formatted: Underline CWB social attraction: As a pilot project, develop an adaptive management study to evaluate the effectiveness of using CWB decoys and audio-attraction to establish or re-establish CWB colonies in suitable habitat. Vegetation management: As a pilot project, develop an adaptive management study to evaluate methods for managing Formatted: No underline vegetation and improving habitat and wildlife access to available habitat in the Cape Point dredge pond area. Formatted: Font: 10 pt Formatted: Font: 10 pt In addition to the Species Management procedures outlined in this table, through the issuance of a research permit NPS may Formatted: Font: 10 pt authorize qualified biologists or ornithologists associated with recognized academic or research institutions to conduct additional scientific research on the respective species that will add to the existing knowledge of shorebird species or improve resource protection within the Seashore. Establishment of Research Area(s) may be authorized under such a permit. Formatted: Right: 0.18", Space Before: 12 Implementation of Should adaptive management initiatives and other research provide information that NPS believes is an adequate basis for Adaptive management changes, such changes would be evaluated and considered for implementation as part of the 5-year Periodic Review Management & DRAFT: CAHA ORV ResProt Tables, 1002092508 rev1.doc 13

DRAFT CAHA ORV ResProt Tables. 1002 v092508_rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

Formatted: Header, Space Before: 0 pt,

After:	0 pt
--------	------

		<u> </u>	-	After: 0 pt
esearch Initiatives	process.			
Non-breeding / Wintering Survey	NPS will menitor presence, abundance and behavior of migrating and wintering PIPL, AMOY, WIPL, and REKN at the points and spits. Surveys will begin after the last PIPL chick has fledged on the seashere and end on March 1 the following year. Surveys will be conducted three times per menth at pre-established locations based on a habitat assessment conducted at the beginning of the winter survey season.			Formatted Table Formatted: Right: 0.18"
Non-breeding / Wintering Buffers	Annual habitat assessment will be conducted after all birds have fledged from the area. Winter closures will be based on habitat used by wintering PIPLs in the past 3 years, the presence of birds at the beginning of the migrate season, and suitable habitat types based on the results of the annual survey. All winter closures will be installed no later than Sept 15th. Actual locations of suitable foraging and resting habitat may change periodically due to natural processes. Access will be maintained to inlet via the ocean shoreline. (Exact terminus and configuration of access corridor TBD by NPS resources management staff base on an annual habitat assessment).	r y	No closures.	Formatted: Right: 0.18", Don't adjust spatetween Latin and Asian text Formatted: Right: 0.18" Formatted: Font: 10 pt
Data Collected	GPS will be used to document nest locations. Record locations where territorial/courtship behavior occurs to include scrape locations. Estimate where adult and chick foraging occurs. Chicks should never be disturbed to obtain this information. Record presence and abundance of birds.	GPS will be used to document nest locations. Record presence and abundance of birds.	GPS will be used to document colony locations. Record presence and abundance of birds.	Formatted: Right: 0.18"

DRAFT CAHA ORV ResProt Tables.1002v092508 rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

Formatted: Header, Space Before: 0 pt,

After: 0 pt

Formatted: Font: 16 pt, Pattern: Clear (Gray-20%)

Formatted: Font: 16 pt

Formatted: Centered, Right: 0.18"

Formatted: Font: Bold

Formatted: Space After: 0 pt

Formatted: Font: Arial

Formatted: Centered, Right: 0.18", Space Before: 6 pt, After: 6 pt

Formatted: Right: 0.18"

Formatted: Right: 0.18"

Formatted: Right: 0.18"

Sea Turtles (a minimum of 7 field personnel is required to meet the daily monitoring requirements on the Park's 67 miles of shoreline)

Survey Time and Frequency

Management

Activity

Sea turtle patrol will begin on May 1, unless leatherback nests have been reported within the state, in which case CAHA will follow the direction of NCWRC. Patrol will continue until September 15, or two weeks after the last sea turtle nest or crawl is found, whichever is later.

Sea Turtles

Conduct daily morning surveys by ATV/UTVs and possibly ORVs for crawls and nests on all beaches <u>generally</u> before onset of <u>heavy</u> public ORV use. Daily surveys for nests end September 15, or two weeks after the last sea turtle nest or crawl was found, whichever is later. Periodic monitoring (e.g., every two to three days) for unknown nesting and emerging hatchlings will continue, especially in areas of high visitation from that date until November 15.

Monitoring will also occur for post-hatchling washbacks during periods when there are large quantities of seaweed washed ashore or following severe storm events. Nest observations stop when all nests have hatched or excavation indicates that the nest was not viable.

Once a light filter fence is installed, monitor nests daily for signs of hatchling emergence.

Data Collected

Follow the North Carolina Wildlife Resources Commission Handbook and record:

- -Turtle species
- -Nest vs. false crawl
- -Location (physical description and GPS location)
- -If nest needs to be relocated and, if so, why and where (new physical description and GPS location), number of eggs relocated, and time of day
- -Necessary protective measures for nest and hatchlings
- -Information regarding any post hatching nest excavation and analysis

Examine all nests after hatching to determine productivity rates. Excavate nests in the evening a minimum of 72 hours after hatching event.—In cases where hatching events or dates were unknown, unearth nest cavities 80–90 days after the lay date. Any live hatchlings found during excavations will be released at dusk or aftafter dark on the same day as excavation.

For strandings the following will be recorded: species, location, measurements, and signs of human interactions. Samples and photos will be collected when necessary. Necropsies will be conducted when possible.

Nest Closures/ Buffers

Establish a buffer approximately 10 meters by 10 meters with symbolic fencing and signage around nest. Closure size may be modified due to environmental conditions at the nest site.

Approximately 50– 55 days into incubation, closures expanded to the surf line. The width of the closure based on the type and level of use in the area of the beach where the nest was laid:

DRAFT: CAHA ORV ResProt Tables.1002092508 rev1.doc

Draf	tt Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09	Formatted: Header, Space Before: 0 pt, After: 0 pt
	a. Vehicle-free areas with little or no pedestrian traffic – 25 meters wide (total width); b. Vivillages or other areas with high levels of day use – 50 meters wide (total width); c. Aareas with ORV traffic – 105 meters wide (total width). Opposite the surf line on the landward side of the closure, expand the closed area to 15 meters where possible, but no less than 10 meters landdune ward from the nest. Traffic detours behind the nest area clearly marked with signs and reflective arrows. Where present within closure, vehicle tracks manually smoothed with rakes or a steel mat attached to an ATV, so as not to impede hatchlings attempting to reach the surf. Use light filtering fence behind nests nearing hatch dates to block light pollution from the villages and vehicles operating on the beach after dark.	Arter. 0 pt
	If multiple nests are located near each other (within 150 feet), and have similar hatch dates (14 days), then closures will encompass all nests in the area, and will not be removed until all nests within the closure have hatched.	Formatted: Right: 0.18", Space After:
Nest Watch Program	Establish a cadre of trained volunteers to "watch" nests that have reached their hatch windows in order to monitor hatchling emergence success and success at reaching the water, and to provide for the minimization of negative impacts from artificial lighting, predation, and human disturbance. Due to the number of nests that may be ready to hatch and the availability of volunteers, it may be necessary for NPS turtle staff to prioritize which nests are watched on any particular night. Priority will be given to watching the nests that are most likely to be negatively impacted by manageable factors.	
Nest Relocation	By April 15th, areas deemed unsuitable for turtle nests (i.e. high erosion rate) will be identified by Park staff. Maps and descriptions of these areas will be analyzed by NCWRC prior to nesting season. When a nest is found, designated NPS staff will staff-assesses need for nest relocation and follows relocation guidance identified in the NCWRC handbook. If it is determined the nest will not be relocated, it will be immediately protected with a symbolic fencing and signs and will measure approximately 10 meters by 10 meters in size. Closure size may vary at the discretion of staff due to the environmental factors at a nest location. If a nest is threatened by an imminent storm event, NPS will consult with NCWRC to determine appropriate action.	Formatted: Right: 0.18" Formatted Table
<u>Strandings</u>	Respond to sea turtle strandings in a timely manner, and report all information, pictures, and signs of human interaction to NCWRC Necropsies of strandings will be done when possible.	Formatted: Font: Arial Formatted: Font: Arial
aht Restrictions	From May 1 through November 15: - Beach fires are permitted only in front of Coquina Beach, Rodanthe, Waves, Salvo, Avon, Buxton, Frisco, Hatteras Village, and Ocracoke Day Use area. Fires are prohibited within 100 meters of a sea turtle nest closure. - Portable lanterns, auxiliary lights, and powered fixed lights of any kind shining for more than 5 minutes at a time are prohibited on Seashore ocean beaches	Formatted: Font: Arial Formatted: Font: Arial Formatted: Bullets and Numbering Formatted: Space Before: 0 pt, After: 0

***	t Deliberative December 1 Net for Delegative CAHA Charles Management Table 100/40/00		Formatted: Header, Space Before: 0 pt,
Drat	t Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09		After: 0 pt
Night Driving Restrictions	From May 1 to November 15, all non-essential vehicle use is restricted or prohibited as described in the respective alternatives.		
ht Management	By May 1, 2012, install Establish turtle friendly lighting fixtures on all standards and/or reduce light for all Seashore (NPS) structures visible from the ocean beach (except where prevented by other overriding lighting requirements, such as lighthouses	(Formatted: Table Text, Right: 0.51"
	which serve as aids to navigation) and- Encourage concessioners to install turtle friendly lighting fishing piers operated by NPS concessioners.		Formatted: Font: (Default) Arial, 10 pt
			Formatted: Font: (Default) Arial, 10 pt
	Develop educational material to inform visitors about their impact on the success of sea turtle nests.	(Formatted: Font: 10 pt
	Work with FWS, NCWRC, and Dare County to encourage development of a turtle friendly lighting ordinance and/or turtle friendly	\mathcal{L}	Formatted: Right: 0.51", Space Before:
	lighting education program for villages within the Seashore on Hatteras Island.	1	Formatted: Font: 10 pt
Adaptive	The following adaptive management initiatives for sea turtles have been identified:	Y	Formatted: Normal
Management	The following adaptive management initiatives for sea turtles have been identified:	-	Formatted
<u>Initiatives</u>	 Develop an adaptive management study to evaluate the level of human disturbance that might be caused, if any, by designation night driving routes to select points and spits, and to develop management tools to minimize impacts to an acceptable level. 	P	Formatted: Not Highlight
		\sim	Formatted: Bullets and Numbering
	 Develop an adaptive management study to determine ways to increase the number of hatchlings that emerge and reach the water. 	7	Formatted: Font: 10 pt
		1/1	Formatted
	 Develop an assessment tool to measure ambient artificial lighting along the length of the Seashore, which can be used to re- assess conditions after any management actions are taken to reduce artificial lighting. 	// Y	Formatted: Bullets and Numbering
	assess conditions after any management actions are taken to reduce artificial lighting.	λ	Formatted: Font: 10 pt
Research	In addition to the Species Management procedures outlined in this table, through the issuance of a research permit NPS may	Ϋ́	Formatted: Bullets and Numbering
	authorize qualified biologists associated with recognized academic or research institutions to conduct additional scientific		Formatted: Font: Arial
	research on the respective species that will add to the existing knowledge of sea turtles or improve resource protection within the Seashore. Establishment of Research Area(s) may be authorized under such a permit. Support research efforts looking at	$\langle \cdot \rangle \langle \cdot \rangle$	Formatted
	the sex ratios of sea turtles.		Formatted: Font: Arial
			Formatted: Font: Arial
	Respond to sea turtle strandings in a timely manner, and report all information, pictures, and signs of human interaction to NCWRC.		Formatted
		ا آسه	Formatted: Table Text, Right: 0"
	Necropsies of strandings will be done when possible.	(}	-
plementation of	Should adaptive management initiatives and other research provide information that NPS believes is an adequate basis for		Formatted: Font: (Default) Arial
Adaptive	management changes, such changes would be evaluated and considered for implementation as part of the 5-year Periodic Review		Formatted: Space Before: 6 pt, After: 6
Management &	process.		Formatted: Font: Arial
earch Initiatives		}	Formatted: Space Before: 6 pt
	Cookeach Ameronth		Formatted: Font: 16 pt
	Seabeach Amaranth 5	$X \subset$	Formatted: Centered, Right: 0.51"

DRAFT CAHA ORV ResProt Tables.1002v092508 rev1 Formatted: Header, Space Before: 0 pt, ***Draft Deliberative Document - Not for Release*** CAHA Species Management Table rev03/10/09 After: 0 pt Formatted: Font: Arial Management **Seabeach Amaranth Activity** Formatted: Centered, Right: 0.51", Space Before: 6 pt, After: 6 pt Survey Time and Formatted: Font: Bold ConductAn annual survey of potential habitat will be conducted. Some bird closure areas may not be surveyed due to the Frequency Formatted: Space After: 0 pt potential to disturb nesting birds. Some areas may not be surveyed until just prior to re-opening an area to ORV traffic. Formatted: Right: 0.51" July-September Before opening any species closure or identifying alternate ORV corridors, survey for seedlings/plants. End observations when all plants have died back. Formatted: Right: 0.51" Data Collected Record location of all individual plants or plant clusters using a GPS and note if the plant is located in an area open or closed to recreational use. Formatted: Right: 0.51", Space Before: 6 pt, Buffers June 1April 15 – November 30 After: 6 pt Identify suitable habitat at points and spits and delineate with symbolic fencing by June 1 if such areas are not already protected within shorebird prenesting closure(s). If a plant/seedling is found outside of an existing closure, the Seashere will erect symbolic fencing with signage creating a 10 meter by 10 meter buffer around the plant. If plants are located next to each other, the area will be expanded to create one enclosure protecting several plants. If a SBA is found during the survey prior to reopening a bird closure to ORV and pedestrian use, the Seashore will protect the SBA as described above and reopen the areas of the bird closure where no plants exist. Areas reopened if no plants are present by September 1. Where plants occur, the closed areas will be reopened after the plants have senesceddied, typically around December 1. Formatted: Font: Bold **All Species** Formatted: Centered Periodic Review A systematic review of data, annual reports, and other information would be conducted by NPS every 5 years, or after a major Formatted: Font: 16 pt, Bold hurricane, to evaluate the effectiveness of management actions in making progress toward the accomplishment of stated Formatted: Right: 0.51", Space Before: 6 pt, objectives. Periodic Review could result in changes to the management actions in order to improve effectiveness. After: 6 pt Formatted: Space Before: 0 pt, After: 0 pt Shorebird / Waterbird Buffer Summary Formatted: Space Before: 0 pt Formatted: Font: 11 pt, Bold Formatted: Font: 11 pt, Bold

Formatted Table

18

DRAFT: CAHA ORV ResProt Tables.1002092508 rev1.doc

DRAFT CAHA ORV ResProt Tables. 1002 v092508_rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

	<u>SM1 / SM2</u>	<u>SM1 / SM2</u>
Piping Plover	<u>75 m / 75 m</u>	1000 m / 1000 m (ORV); 300m (Pedestrian)
Wilson's Plover	300 m / 150 m	<u>300 m / 200 m</u>
American Oystercatcher	300 m / 150 m	<u>300 m / 200 m</u>
<u>Least Terns</u>	300 m / 100 m	<u>300 m / 200 m</u>
Other Species CWB	300 m / 200 m	<u>300 m / 200 m</u>

Common to All Action Alternatives

Breeding Shorebird SMAs (designated SMAs will be subject to Periodic Review):

- Bodie Island Spit: 0.2 miles south of Ramp 4 to inlet (est.1.9 miles)
- Ramp 27 to Ramp 30 (est. 2.1 miles)
- Ramp 32.5 to Ramp 34 (est. 1.5 miles)
- Approximately 2.0 miles south of Ramp 38 to north boundary of Buxton (est. 1.7 miles)
- Cape Point: 0.2 miles south of Ramp 44 to Ramp 45 (est. 2.2 miles)
- South Beach: Ramp 45 to Ramp 47 (est. 1.7 miles)
- Hatteras Inlet Spit: Ocean shoreline south of Pole Road to sound-side of inlet (est. 0.8 miles)
- North Ocracoke Spit: Ramp 59 to inlet (est. 1.4 miles)
- 0.5 miles south of Ramp 68 to 1.2 miles north of Ramp 70 (est. 1.0 mile)
- South Point Ocracoke: 0.5 miles south of Ramp 72 to inlet (est. 2.6 miles)

Alternative F

Nonbreeding Shorebird SMAs (designated SMAs will be subject to Periodic Review)

- Ramp 1 to new Ramp 2 approximately 0.4 mile south of Coquina Beach (est. 1.5 miles)

DRAFT: CAHA ORV ResProt Tables, 1002092508 rev1.doc

Formatted: Underline

After: 0 pt

Formatted: Font: 14 pt, Not Bold, Underline

Formatted: Header, Space Before: 0 pt,

Formatted: Bullets and Numbering

Formatted: Font: 14 pt, Not Bold, Underline

Formatted: Bullets and Numbering

19

DRAFT CAHA ORV ResProt Tables.1002v092508_rev1

Draft Deliberative Document - Not for Release CAHA Species Management Table rev03/10/09

- Bodie Island Spit: Sound shoreline and interior habitat(s), based on annual habitat assessment and nonbreeding surveys. Access to northeast corner of Bait Pond to be maintained by10 m wide access corridor next to (south of) the dune line.
- Ramp 27 to Ramp 30 (est. 2.1 miles): ocean shoreline habitat
- "Floating" 1.5 miles of ocean shoreline habitat between Salvo and Avon (in addition to Ramp 27-30), based on habitat assessment and nonbreeding surveys
- Cape Point: suitable interior habitat, such as upper beach roosting areas and ephemeral pools, based on annual habitat assessment and nonbreeding surveys
- South Beach: "Floating" 1.5 miles of ocean shoreline between Ramp 45 and Ramp 49, based on habitat assessment and nonbreeding surveys. Access to be provided via interdunal road or upper beach route (where 50 m buffer can be maintained).
- Hatteras Inlet Spit: Sound shoreline of overwash fans; and inlet shoreline and 1.0 mile of ocean shoreline north of inlet, based on annual habitat assessment and nonbreeding surveys. Oceanside access to be provided via interdunal road or upper beach route, and soundside access via Spur Road.
- North Ocracoke Spit: Sound, inlet and ocean shoreline, based on annual habitat assessment and nonbreeding surveys
- Mid-Ocracoke Island: Designated year-round non-ORV areas of ocean shoreline between Ramp 59 and Ramp 70
- South Point Ocracoke: Sound shoreline, portion (min. 50%) of inlet shoreline, interior habitat(s), and "floating" 1.0 miles of ocean shoreline between Ramp 72 and inlet, based on annual habitat assessment and nonbreeding surveys. . Upper beach corridor will be used to by-pass to the 1.0 mile shoreline area.

Formatted: Header, Space Before: 0 pt, After: 0 pt

Formatted: Indent: Left: 0", Hanging: 0.25", Tab stops: 0.25", List tab + Not at 0.08"

Formatted: No underline

Formatted: No bullets or numbering