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### COUNTY COUNCIL OF BEAUFORT COUNTY

ADMINISTRATION BUILDING BEAUFORT COUNTY GOVERNMENT ROBERT SMALLS COMPLEX 100 RIBAUT ROAD

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JOSHUA A. GRUBER
INTERIM COUNTY ADMINISTRATOR

AGENDA
NATURAL RESOURCES COMMITTEE
WORK SESSION

Thursday, October 5, 2017 6:30 p.m. – 8:30 p.m.

Council Chambers, Administration Building Beaufort County Government Robert Smalls Complex 100 Ribaut Road, Beaufort THOMAS J. KEAVENY, II COUNTY ATTORNEY

ASHLEY M. BENNETT CLERK TO COUNCIL

Committee Members:
Brian Flewelling, Chairman
Roberts "Tabor" Vaux, Vice Chairman
Rick Caporale
Gerald Dawson
Steve Fobes

York Glover

Alice Howard

Staff Support:
Anthony Criscitiello, Planning Director
Gary James, Assessor
Eric Larson, Division Director
Environmental Engineering
Dan Morgan, Division Director
Mapping & Applications

- 1. CALL TO ORDER 6:30 P.M.
- 2. RECEIPT OF PUBLIC COMMENT AND INPUT INTO POLICIES FOR AN ORDINANCE TO DEAL WITH PLASTIC BAGS AND SUBSTITUTE FOR REUSABLE RETAIL CARRYOUT BAGS IN THE UNINCORPORATED AREAS OF BEAUFORT COUNTY
- 3. ADJOURNMENT

2017 Strategic Plan Committee Assignments
Hilton Head National Rezoning/Development Agreement
Priority Investment – Capital Projects Long-Term Prioritized Requirements
Passive County Parks: Plan, Funding
Comprehensive Countywide System/Stormwater Utility (Agreements with Municipalities)
2018 Priority Projects: Immediate Opportunities
Stormwater Management Program/Policy: Implementation
Okatie River Restoration: Funding
May River Action Plan
Rivers and Creeks Water Quality: Evaluation
Transfer of Development Rights
Buckingham Plantation Community Development Plan: Amendment





# ADD-ONS

The document(s) herein were provided to Council for information and/or discussion after release of the official agenda and backup items.

Topic: Documents Relative to Plastic Bag Ban

Date Submitted: October 5, 2017 Submitted By: Public Speakers

Venue: Natural Resources Committee Work Session

# STATEMENT TO BEAUFORT COUNTY COUNCIL

Dr. A. Lanny Kraus 10/5/17

Good evening. I am Dr. Alan L. Kraus a retired University Professor, Comparative Pathologist and Zoo Veterinarian, a resident of Beaufort County for the past 17 years and one who has grave concerns about degradation of our local environment that is, arguably "One of the last great places" on Mother Earth. I have worked with the Chesapeake Bay Foundation before moving to the Low Country and presently volunteer at the Port Royal Sound Foundation.

Plastic bags in the marine environment kill marine mammals,2 sea turtles and negatively affect shellfish. I have personally autopsied several species of deceased dolphins, seals, sea turtles & several species of marine-feeding birds and other wildlife that have been made sick and indeed have died due to ingestion of plastic bags. They all suffered a horrible death.

While the proposed plastic bag ban that applies to grocery stores does not eliminate the problem, it is a start. Rome was not built in a day! The ban will impact all citizens and others who shop for groceries in the County and thus will be a "teaching moment" - again and again – that will make everyone think about the horrific contamination of the environment caused by our careless disposal of not only plastic grocery bags, but other plastic bags, Styrofoam materials and other non-biodegradable packaging that adversely

harm marine animals, and eventually may, after many years, wind up as small particles or toxic chemicals in the water & in shellfish that may affect humans and both marine & land-dwelling animals.

We have a world-renowned & magnificent marine environment. To protect that environment is our responsibility. The proposed bag ban by the Beaufort County government will do much to maintain and improve our environment and lead & encourage other communities to consider similar bans and other measures, <u>and</u> to educate the public that we must protect our fragile environment. We must not continue the current despoiling of our marshes, rivers, bays and sounds. Like measures to slow or reverse global warming, we have time! We must start now! It would be unconscionable if we were to travel the same destructive path that has occurred in the Chesapeake Bay.

I strongly support the plastic bag ban.

Thank you for your serious consideration of all views.

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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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## <u>Petition</u>

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# BSC1 6/10 **Ban Plastic Bags Petition**

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# **Ban Plastic Bags Petition**

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JAM Wornell	29904	(859) 396-2124
Penny Blumenthal	23229	804-740-5340
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Carol Dadely	31407	ilgsevena yaho> a
Thank Guldy	29902	193-591-9787
Amberlyn Bergstron	29902	
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Gina Towamassa	29902	831 334 2222
Topher Maraffi	29902	831 588 5162
Christopher Vodopia	29907	908-642-0913

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PAUL CASH	<i>U</i> 11	11
JESSACA	Beaufort	settlemi Cemail.sc.edu
Tula Develey	Beaufort 29702	Indohen/162gwel. 3
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Kim Burgess	Beaufort 29920	
Jim Burgess	Beaufort 29920	
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# PRAM

### **Petition**

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Bernice Merchant	PittsbughPA 1522	26
Dancy Lamb	Waco 40385	
Edwin Lamb	Waco 40385	
Hannah Fox	Richmond 4047	\$
Emily Fox	Richmond 40475	
LYNN + CAMKITTEON	BIFT 29907	
Wie Makar	Bft 29907	
PETZ JOHN JON	2991U BUSTTON	
Harcy Johnson	29910	
Charces Lky maar	29907	
Grac Syl	29907	tyles and Oyahow.com
Mall	29987	C'
Kate Mc Clintic	29902	

PIRFM

Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

**Petition** 

FULL NAME	CITY/TOWN & ZIP CODE	PHONE OR EMAIL
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Rebekah Crandall	Beaufort SC	RICCema: ) . sc.edu
Vernette Richmond	Beaufort SC	
Evan Reese	Beacht SC	843-838-3574

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BARBARN SMINE	FRIA 29920	
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Pave Morris	2 2 1 2 2 2	devenoing of yellow com
Pan Amendale	Fipp Illand 29920	Panerale stallant wil

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FULL NAME	CITY/TOWN & ZIP CODE	PHONE OR EMAIL
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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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	FULL NAME	CITY/TOWN & ZIP CODE	PHONE OR EMAIL
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	Brian Winslow	Beaufort, SC 29907	Winslow@ hargray. Com
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1	Melydee NuBors	V V	melo de dulros a quael.
<b>*</b>	Susan Delavits		Sjulavits22 Ofmailian
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	Barbara Jame 1	Radys Js 50799	barbarah james 07 Ogmail.com
	Bertol Jarons	11	
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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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LARRY BALLINES	St. Helem	843-441-6839
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Jan Officer !		melrose38 Over: zon.net
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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

FULL NAME	CITY/TOWN & ZID CODE	PHONE OR EMAIL
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Fred	Deaugor 2990 9	cap-island @sbeglobal-net
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Galen Worden	Sandat 21/02	Jalonworden @Mac. 65
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Jon Clon	4 19907	TOMA Les Cestothail.com
Bol Bords	PORT ROYAL 29935	estuarium eisk.net
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Beth Young	Doutor 2990)	by 5860 (Damail wor
305 Ellis	PORT RIVAL 29935	loobls \$5 ayahov, com
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### <u>Petition</u>

Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

ban single-use plastic bags, which are harr	illul to people and the magne season		
FULL NAME	CITY/TOWN & ZIP CODE	PHONE OR EMAIL	
C , F 77	20 DOCKIEZ LANE	843-838-9890	
Sandre E. Barre Mank M. Dorman	Beaufort SC 29902	manymi 10# Dyaho	77
Star Bourd	Beaufort 29902	stanboydstudio@live.c	
Jeffrey Bakek	Braufor 29922	410 991 2126	
Susano. Converse	5r Helana	SUSAN_COMPISCO YAHOO.	con
Lola Maglieno	Port Royal 29906	lamagliaud east.com	`/
Jana Chiteron	Demigrat 29901	Yorlastcalegna	al Ce
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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

FULL NAME	CITY/TOWN & ZIP CODE	PHONE OR EMAIL
Rehecca John Kenn McNen	Gon	vehjølinson 4
		rebjelinson 40 Emine 1/0 agrui) 120
Bethany M. Weil		
A Leour	Part Rugal JC 259	843-476-6073
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#### **Petition**

Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

FULL NAME	CITY/TOWN & ZIP CODE	PHONE OR EMAIL
1946 Crailes	Bealth 29902	243 812 5000 Dubes
Sally Dayse	31. Holongan	20-843-838-3407
Brian Helms	Beaufe A, 29902	704-19-9996
Horel Brudly	1807 11th St. Port Royl; Hilton Head, Sc	50 386 986-5121
Carrie Hirsch	Hilton Head, SC	cjonesseppspaol. Co



# Bluffton Library Petition

Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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Unarlie Tyles	Beautora, SC 29902	803-473-6048
ANNE BANDER	Beaufort SC 29907	
RARDDRA ANNIRONSGARD	Be August S.C 29902	706-215-1719
Charles Keiff	St. Hekua Is/, SC 299	20 706 338 8929
Paul S. Lorris	59 Cussbo Rd St. Heleni 29920	843 838-0882
Barbara L. Maurer	402 Joshua Ct BeautoRt 29902	843-441-1594

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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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Alm Al	29902	
Prittney Hillor	29907	
Slannon Waga	29920	v v
Hay Below	29906	
Janu M. Penz-labes	is 29906	maxie grant 2219 Rygha.
Strip Soldway	29906	
Werns Sals	29907	
Denn Horan	29902	

Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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#### **Petition**

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Brithney Risher	29488	bryister (remail us Bb. edu
Anna Lee	79/88	Minuter @ Cougarn- we
PARRA MILLAND	49149	231-173-0418
Som fores	29941	843-812-0032
Gan Giclay	31404	emccoy 03(05mich.com
Lestel Brow	29909	NB-625-1847
Louis Bossel	29966	865-660-9104
Sara Bam	29710	TC3 517 W566
Sam Mubarger	39743	8033717689

FULL NAME	ZIP CODE	PHONE OR EMAIL
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Randall Hostina	29902	765-387-0552
Bryce Shuman	31406	912-398-9518
Phillip Ousse	29910	803-215-8288
Wyatt Ashley	29909	443-632-5431
Parker Wingard	29072	B03 - 223 - 12 BZ
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Dominique Lott	29710	803-627-7161
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Starr Moveal	29445	843-343-1660
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Rachel Caupbell	29412	843-534-6136
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Trigton Manigault	21455	(843) 345-1602
Mykol Gadson	29463	Muleo 12 God Son Conjune
Braidyn hessler	28408	Berdier Kagnaila
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Christopher Indes	29907	843.345-9217
RICHARD NYE	29906	843-644-1995

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	JOHN HINES	29935	JEHNAH WES EGMARLESM
	Sharon Rectenwa	129902	Scrahrehecca 2000
L	orraine tennesse	29909	Thennessey7250 gned
	aroly Fish	29909	8437077144
-	OSE BELL	29907	803 413 2423
6	Markes Notting	29902	843-597-8902
	Rocio Riley	29935	done 49@ certury Link. met
- 1	John ITASK DE	29902	John to Askii C qualc.
	Sue Regier	29907	Johntraskiiie quaile. 3. regier@icloud.com
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FULL NAME	ZIP CODE	PHONE OR EMAIL
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EUGENE BRUGGER	29907	513-240-1515
Ande Nehila	29909	206-618-1613
Corrie Oickens	29906	706817 1716
Cirdy Newman	2.8807	843-252-1307
Maen Horr	29907	843-522-0430
Estelle Ford-Williams	n 29920	204-664-4518
Christina Meadous	29906	843.592.8304
Kassidy Stefanski	29906	843.474.8569
Sandra Melhanan	29907	440-552-889
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Lynn Strange	29902	610-613-1688
PHILIP ALLING	29935	404-556-7005
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Leggy Willy	29907	763-443-299

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abigayle Losgren	29907	
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Drana Settet	29907	
Juli Will am	29902	not avail.
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JOSEF BEDICS	92103	
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Laurelee Wheat	29935	las verdas lan mou Ognas	J
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Tenée Levin	29907	
Frances Hower	29906	
Hillary Hanner	29935	
DEVIN HANNER	29435-	
Arrel Cella	29935	
Mike Cella	29935	
Sully Roberts	29935	
Leslie Roberts	29907	/
Neil Wilson	29906	
Files Bogins	19467	
Catra Sepulvola	29935	
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# Bag

#### **Petition**

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Christine Former	298000	
Agnou D' Gween	29911	AND
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Karen Pru tie	29906	
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#### **Petition**

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Theo me Eldip	28214	THEO. VANEISIKESABIC. COM
Mater	29902	893-379-4644
Cate Danui	29935	704-676-4706
alay Myas	29906	843-694-7207
MM	29936	843-226-0012
Lynn Morgan	29907	843-555-6279
Meghan Foster	29902	757-408-2628

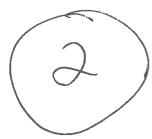
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Harla Leen	29907	, , , , , , , , , , , , , , , , , , , ,
(ARENDUN)	21709	KANL DUNGE (MOCC. com

Bag

#### **Petition**

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Bard Bags

Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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Carol Brown	29902	Tocanne brownegnas
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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

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Beaufort SC Indivisible encourages the Beaufort County Council, Beaufort City Council, and Port Royal Town Council to ban single-use plastic bags, which are harmful to people and the fragile Beaufort County marine ecosystem.

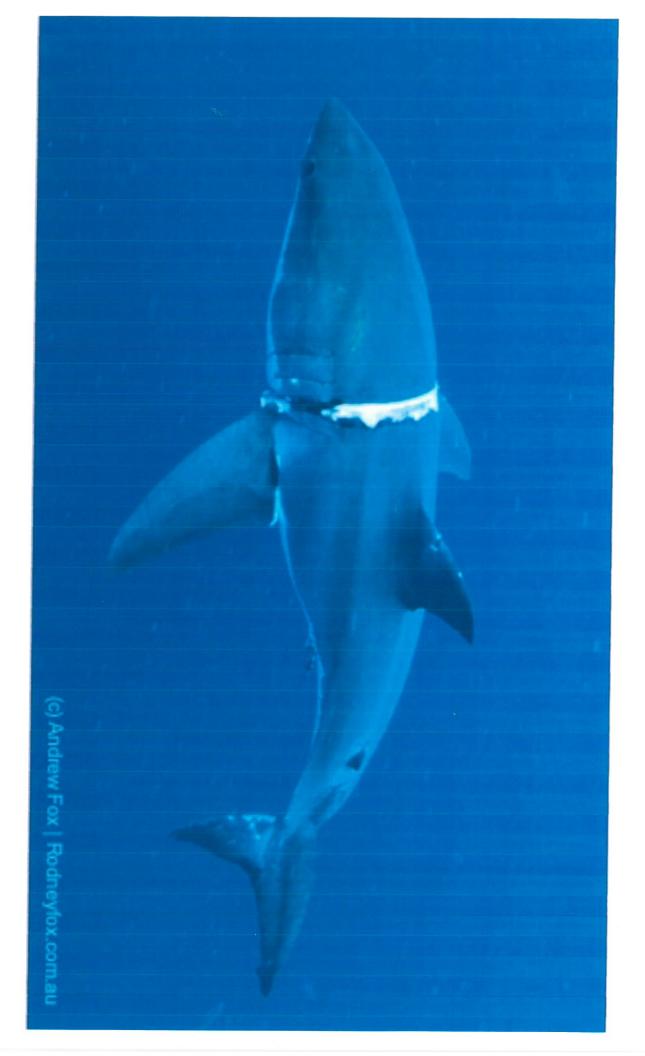
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Statement of the Port Royal Sound Foundation with respect to Beaufort County Council's consideration of a ban on certain plastic bags in Beaufort County.

The Port Royal Sound Foundation is committed to the long term protection of the Port Royal Sound – both its water quality and its marine life. Recognizing that micro-plastics are detrimental to the environmental health of marine ecosystems, the Foundation supports efforts that will reduce the amount of plastic in marine waters. The Foundation thanks the Beaufort County Council for its willingness to address this problem and supports any action that will help reduce plastics in the marine waters of Beaufort County.

Approved by the Board of Trustees of the Port Royal Sound Foundation at their regular meeting of September 19, 2017







# Beaufort County Council Natural Resources Committee – Oct. 5, 2017, 6:30pm

Statement from Nolan Schillerstrom
Coastal Program Director, Audubon South Carolina
nschillerstrom@audubon.org

Good evening. I'm commenting on behalf of Audubon South Carolina, our more than 1,000 members in Beaufort County, and more than 12,000 members across the state. We're the state office of the National Audubon Society, and a leading voice for avian conservation in South Carolina.

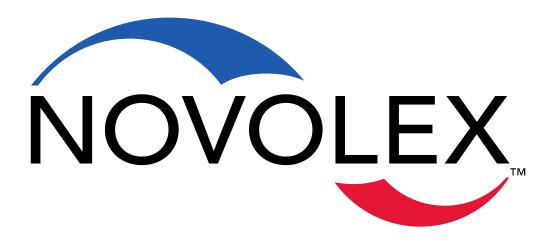
I'm thrilled to witness the development of this groundbreaking ordinance. It reflects the needs of both people and wildlife, and we celebrate your work.

Plastics are detrimental to our oceans, and dangerous to birds. Plastic trash is found today in the digestive systems of 90 percent of seabirds. Our staff and volunteers often encounter dead seabirds on South Carolina beaches, tangled in plastic trash. Worldwide, both seabird and shorebird populations have declined <u>more than 70%</u>, and plastic is one of the challenges.

We support the strongest possible plastic bag ordinance for Beaufort County. If a strong ordinance passes, Audubon and its members will be the first to give you a standing ovation.

Thank you for working to preserve our wildlife for generations to come.





# Presentation to the Beaufort County Natural Resources Committee

Phil Rozenski Senior Director of Sustainability

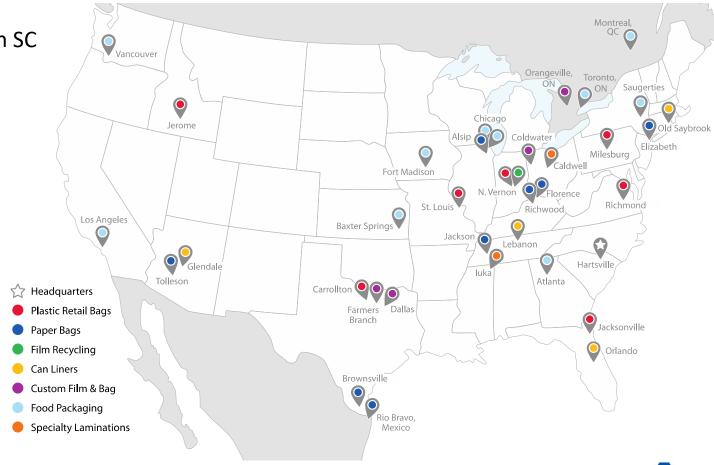




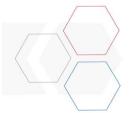
### **NOVOLEX: A South Carolina Company**

#### Headquartered in Hartsville

7,000 jobs, with 74 in SC







## **NOVOLEX Products**





### **NOVOLEX Plastic Retail Bags**











# Novolex and Our Employees are Focused on Sustainability:

- Manufacture bags with recycled content
- Large recycler of bags and film
  - Two of largest recycling facilities in the world in Wisconsin & Indiana







### The Debate on Bag Bans isn't New

### Most of the Story isn't told

- Most Cities and States that look at bag bans elect not to do so
  - Denver
  - Baltimore
  - Boston

We are learning three fundamental and consistent policy facts in the jurisdictions that have banned or taxed bags





# You can ban or tax anything and it will go away or people will use less

 Every location that has passed a ban or tax declares success simply because the product went away

### But, factually this isn't about bags, in its heart this about:

- Litter and landfill waste
- Marine debris—micro plastics
- Recycling infrastructure
- Resource consumption and GHG emissions
- Cost-savings





# Ban and taxes haven't made a meaningful impact on the environment

No Jurisdiction With a Ban or a Tax has Found an Overall Benefit for the Environment and Many See a Step Backwards

- Austin now sees more tonnage of reusable bags in their recycling / waste stream
- San Francisco bay area found no reduction in overall litter or marine debris replacement products
  - Average reusable bag in California used less than 10 times—need 27 or more to produce benefit
  - People who would use a bag 100 times already were
- All cities that started without a tax add one within 2-3 years to try to reduce impact of replacements
  - Still doesn't produce net benefit
- North Carolina Department of Natural Resources found no benefit from outer banks bag ban
  - Ban repealed on October 5, 2017





#### Bans and Tax Policies Come with a Cost

- In Beaufort County a ban would increase costs to retailers and consumers by \$1.8 million per year
- Costs are regressive
- Replacement products consumer more material and produce more waste
- In an area where recycling is not easily accessed it will increase waste stream tonnage by about 3%
  - Plastic bags are 0.5% of waste stream—USEPA
  - Paper bags have a 7 fold bulk so it could grow to about 3.5%





"There are really good things about plastic bags—they produce less greenhouse gas, they use less water and they use far fewer chemicals compared to paper or cotton... If the most important environmental impact you wanted to alleviate was global warming, then you would go with plastic."

"Sweating the small stuff [plastic bags] distracts us from paying attention to the bigger stuff."

- David Allaway, Oregon Department of Environmental Quality - Dr. David Tyler, University of Oregon





### A Smarter Way Forward



#### **How In-Store Recycling Works**





# Reuse + Recycle = Reduce





## Thank You



#### Plastic Retail Bags & Recycling

Presentation to Beaufort County Natural Resources Committee



October 2017

#### Four Key Points

- No scientific studies have been conducted to determine the local impact of plastic retail bags.
- A bag ban will lead to higher costs for retailers and consumers.
- Beaufort County shouldn't vote to impose higher costs without first understanding the role of plastic bags within local litter and waste streams.
- The cost to study litter and waste is roughly \$50,000.
   The cost for the community to shift to more expensive bags would be in excess of \$1,000,000.

#### About Plastic Retail Bags



Plastic retail bags are made from a by-product of natural gas refining. They have no impact on U.S. fossil fuel consumption.



EPA data shows that plastic shopping bags make up just 0.5% of the U.S. municipal waste stream.



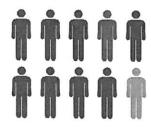
Plastic retail bags are
100% recyclable
through thousands of grocery
store recycling programs
nationwide.



#### About Reuse and Recycling



**100%** recyclable and reusable



**9 out of 10** people reuse Plastic Retail Bags



More than **30,000** retail recycling stations across the U.S. funded by APBA members



More than 90% of people have access to plastic retail bag recycling

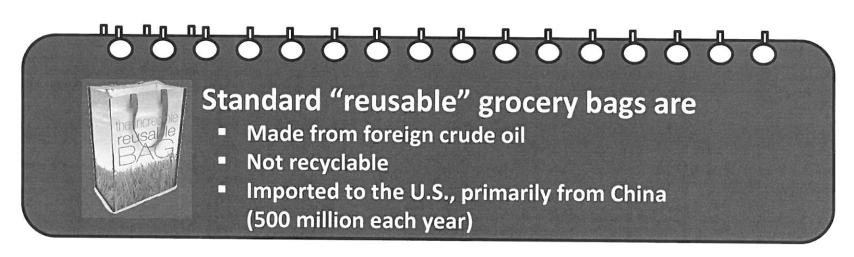


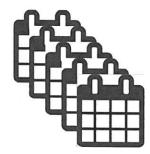
Recycled plastic retail bags are used to create **new products** 



More than **1 billion lbs.** recycled annually

#### About "Reusable" Bags





We support consumer choice, but certain facts about alternatives are undeniable:

- You would have to use the same canvas bag for 5 years before it is a better option for the environment than a plastic retail bag used twice.
- 8
- Reusable bags can spread bacteria and disease because they are rarely washed. In one study, coliform bacteria were found in 51% of tested bags, with generic *E. coli* in 8%.

#### **Economic Consequences of Bag Regulation**

#### **Plastic Retail Bag Bans:**



- Threaten thousands of U.S. manufacturing and recycling jobs
- Incentivize consumers to shop where there aren't bans—a
  particular issue for shops located near the edge of enforcement
  zones
- Increase shop-lifting



- Create bureaucratic red tape for small business owners and more administrative challenges
- Present storage challenges for small store owners with limited space for bulkier bagging options
- Impose a regressive burdens on low-income families
- Do not help cities save money on litter and waste management

#### **Environmental Consequences of Bag Regulation**





- Do not reduce litter or waste
- Can introduce more plastic into landfills after reusable bags and thicker plastic retail bags are discarded
- Force customers to alternatives that generate more greenhouse gases



- Waste more water, which is needed to manufacture plastic retail bag alternatives
- Divert local attention from more serious environmental solutions aimed at addressing litter and waste

#### **Avoiding Hasty Policies**

After careful consideration and expert consultation, the Zero Waste Work Group of Minnesota's St. Louis Park Environment and Sustainability Commission issued a position statement against plastic bag regulation:

- "Our position is that an ordinance banning point of sale... shopping bags is not the way to go and would result in possible unintended consequences that are opposite to the City Councils' original goals... [it] could distract us from tackling more serious issues that we face in our waste stream.
- "The life cycle analysis of a thin, plastic bag reveals that the carbon footprint of this bag is smaller than any of the alternatives including reusable bags of both the polyethylene variety and the cloth variety.
- "Plastic bags are reusable, recyclable and are a desirable commodity in the recycled materials stream.
- "Let's not fall into the trap of competing with our surrounding cities by racing to a ban on retail plastics bags... It is less important that we appear green, let's be green."

#### **Evaluating the Facts**

"It's very unlikely that many animals are killed by plastic bags. The evidence show just the opposite. We are not going to solve the problem of waste by focusing on plastic bags... With larger mammals it's fishing gear that's the big problem. On a global basis plastic bags aren't an issue."

- David Santillo, marine biologist Greenpeace

#### **Evaluating the Facts**

"Concluding that a bag
[ordinance] will make a
substantial dent in waste going
to landfills is misguided."

- Chief of Sustainability, Denver, Colorado "There are much greater threats to the in Rhode Island would not be meaningful."

Dr. Chris Reddy, Woods Hole

"...this problem is solved not by bans on products but by proper disposal, recycling and education."

- Timothy Wright, Retired Captain, National Oceanic and Atmospheric Administration

#### Learning from Others

- In 2014, Fort Collins, CO voted 6-1 to repeal a ban on plastic bags; the citizens of Mercer County, NJ, rejected a referendum to place a 5-cent fee on bags; and Baltimore, MD Mayor Stephanie Rawlings-Blake vetoed a bag tax, among others.
- May 5, 2015 Huntington Beach, CA's City Council became the first municipality in the country to repeal an existing ordinance banning plastic bags.
- June 3, 2015 Dallas City Council repealed its 5-cent tax on plastic bags.
- September 2015 Columbus, OH launched a plastic bag recycling program in early 2016 in lieu of banning or placing a fee on plastic bags.
- November 2, 2015 Winchester, MA rejected a proposed ban at a town meeting.
- November 3, 2015 Voters in Greenfield, MA rejected a nonbinding ballot question to ban plastic bags.
- **December 1, 2015 St. Louis Park, MN** City Council abandoned plans to impose a local plastic bag ban.

# Thank you.

#### **Source Citations**

- EPA: <u>Municipal Solid Waste Report</u>; 2016.
- Boustead Consulting & Associates: "Life Cycle Assessment for Three Types of Grocery Bags—Recyclable Plastic; Compostable, Biodegradable Plastic; and Recycled, Recyclable Paper"
- U.K. Environmental Agency: "Life Cycle Assessment of Supermarket Carrier Bags." February 2011
- APCO: <u>National Plastic Shopping Bag Recycling Signage Testing</u>
- Moore Recycling Associates: 2011 National Postconsumer Plastic Bag & Film Recycling Report
- Brief: <u>Denver</u>, <u>CO</u> Chief of Sustainability
- ER Planning Report Brief: Plastic Retail Bags in Litter
- "Timothy B. Wright: The oceans face much bigger problems than plastic bags," by Timothy B. Wright, The Providence Journal, Feb. 18, 2014.
- Natural Gas: Analysis by Chemical Market Associates, Inc.; February, 2011.
- Recyclability: Analysis by Chemical Market Associates, Inc.; February, 2011.
- Reuse: Reason-Rupe May 2013 Public Opinion Survey
- Recycling Bins: <u>Bag the Ban website</u>
- Access to Recycling: <u>Bag the Ban website</u>, <u>"NYC Myth vs Facts"</u>
- New Products: Green Builder: "<u>Deck Durability</u>," 4/30/2013
- Bacteria: <u>International Association for Food Protection</u>, "Assessment of the Potential for Cross-contamination of Food Products by Reusable Shopping <u>Bags</u>," 2011

#### Yearly Bag Cost with Plastic Bags vs. Yearly Bag Cost with Paper Bags only

	Yearl	y Bag Cost with u	se of Plastic Bags		
Type of Bag	# of Bags Per Case	Cost Per Case	Cost Per Bag	# of Cases per Week	Total Cost Per Year
Plastic T-Shirt Bag	1000	14.85	\$0.015	15	\$11,583.00
PW Handle Paper Bag #70	300	41.02	\$0.137	2	\$4,266.08
Paper Bag #3	5000	103.17	\$0.021	2 Cases per year	\$206.34
Insulated Paper Bag #8	1000	26.75	\$0.027	2 Cases per year	\$53.50
			Current	Yearly Bag Cost	\$16,108.92

Year Bag Cost	without use of Plastic	Bags (Assume h	nalf # of Paper B	ags used per Plastic Bag)	
Type of Bag					
Handle Paper Bag #70	300	41.02	\$0.137	25	\$53326.00
Paper Bag #3	5000	103.17	\$0.021	2 Cases per year	\$206.34
Insulated Paper Bag #8	1000	26.75	\$0.027	2 Cases per year	\$53.50
			<b>Estimated Yearly Bag Cost</b>		\$53,585.84

Type of Bag	ac ase of Flastic Bags	dia switching t	o reusable (ASSU	ıme 10 uses per reusable l	oag)
Reusable Cloth Bag	10	6.90	0.69	150	\$53820.00
Paper Bag #3	5000	103.17	\$0.021	2 Cases per year	\$206.34
Insulated Paper Bag #8	1000	26.75	\$0.027	2 Cases per year	\$53.50
			Estimated Yearly Bag Cost		\$54,079.84

The cost increase of going from a plastic and paper bag combination such as the worksheet on top to a paper bag only is approximately \$37,476.92.

The cost increase of going from a plastic and paper bag combination to a strictly reusable bag program with other paper bags is approximately \$37,970.92.

From February 2014 till February of 2017, the cost of a 300 ct. Handle Paper Bag #70 has increased from \$24.87 to \$41.02. That's an increase of \$16.15 or 64.94%.