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COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee	Date
Board of Supervisors Meeting	Date 12/6/11
Cmte Board Motion	
Resolution Ordinance	
Legislative Digest Budget Analyst Report	
Legislative Analyst Report Introduction Form (for hea Department/Agency Cover	arings)
MOU Grant Information Form Grant Budget Subcontract Budget Contract/Agreement Award Letter Application	
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Completed by: Arthur Khos Completed by:	Date 11 23 11 Date

An asterisked item represents the cover sheet to a document that exceeds 20 pages. The complete document is in the file.

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[Environment Code - Checkout Bags; Checkout Bag Charge]

Ordinance amending the San Francisco Environment Code by: 1) amending Section 1702, to extend the restrictions on checkout bags from supermarkets and chain pharmacies to all retail establishments and food establishments in the City, and clarify terms; 2) adding Section 1703.5, to require stores to add a checkout bag charge of 10 cents, rising to 25 cents, if they provide a customer with a checkout bag; 3) setting an operative date of July 1, 2012; and, 4) making environmental findings.

NOTE:

Additions are <u>single-underline italics Times New Roman</u>; deletions are <u>strike through italics Times New Roman</u>. Board amendment additions are <u>double-underlined</u>; Board amendment deletions are <u>strikethrough normal</u>.

Be it ordained by the People of the City and County of San Francisco:

Section 1. Environmental Findings. The Planning Department has determined that the actions contemplated in this ordinance comply with the California Environmental Quality Act (Cal. Pub. Res. Code §§ 21000 et seq.), and, on November 10, 2011, issued a Categorical Exemption Determination for the the proposed amendments under CEQA Guidelines Classes 7 and 8 (14 Cal. Code Regs. §§ 15307 and 15308). Said determination is on file with the Clerk of the Board of Supervisors in File No. 101055 and is incorporated herein by reference. In approving this ordinance, and upon consideration of the whole record, including public testimony, the Board hereby affirms and adopts the Categorical Exemption Determination.

Section 2. Findings.

1. The City and County of San Francisco has adopted citywide goals of 75 percent landfill diversion by 2010 and zero waste by 2020.

Supervisor Mirkarimi
BOARD OF SUPERVISORS

- 2. The broad use of single-use checkout bags and their typical disposal creates an impediment to achievement of San Francisco's landfill diversion goals.
- 3. Plastic checkout bags are difficult to recycle and contaminate material that is processed through San Francisco's recycling and composting programs.
- 4. Single-use checkout bags create significant litter problems in San Francisco's neighborhoods, and also litter parks, community beaches, sewer systems, and the San Francisco Bay.
- 5. The production and disposal of single-use checkout bags has significant environmental impacts, including the contamination of the environment, the depletion of natural resources, use of non-renewable polluting fossil fuels, and the increased clean-up and disposal costs.
- 6. Of all single-use checkout bags, plastic checkout bags have the greatest impacts on litter and marine life.
- 7. Governments in several countries have placed fees on bags, including the Republic of Ireland, which achieved a 90 percent decrease in the use of single-use plastic checkout bags due to the fee.
- 8. Studies document that banning plastic checkout bags and placing a mandatory charge on paper checkout bags will dramatically reduce the use of both types of bags and increase customers' use of reusable bags.
- 9. Reusable bags are readily available with numerous sources and vendors for these bags. Many stores in San Francisco and throughout the Bay Area already offer reusable bags for sale at a price as low as 25 cents.
- Section 3. The San Francisco Environment Code is hereby amended by amending Section 1702 and adding Section 1703.5, to read as follows:

SEC. 1702. DEFINITIONS.

For the purposes of this Ordinance, the following words shall have the following meanings:

- (a) "ASTM Standard" means the American Society for Testing and Materials (ASTM)'s

 *International Standard Specification for Compostable Plastics D6400 standard D6400 for
 compostable plastic, as that standard may be amended from time to time.
- (b) "Compostable Plastic Bag" means a plastic <u>Checkout Bag bag</u> that (1) conforms to <u>at least the minimum standards of</u> California labeling law (Public Resources Code Section 42355 et seq.), <u>and meets which requires meeting the</u> current ASTM <u>D6400</u> Standard Specifications for compostability, (2) is certified and is labeled as meeting the ASTM Standard by a recognized <u>third-party independent</u> verification entity, such as the Biodegradable Product Institute, <u>and is labeled "Compostable" on both sides of the bag either in green color lettering that is at least one inch in height, or as otherwise specified, or within a green color band that is at least one inch in height in order to be readily and easily identifiable. ; (3) conforms to requirements to ensure that the renewable based product content is maximized over time as set forth in Department of the Environment regulations; (4) conforms to requirements to ensure that products derived from genetically modified feedstocks are phased out over time as set forth in Department of the Environment regulations; and (5) displays the phrase "Green Cart Compostable" and the word "Reusable" in a highly visible manner on the outside of the bag.</u>
- (c) "Checkout <u>Bag</u> bag" means a carryout bag that is provided by a store to a customer at the point of sale. <u>"Checkout Bag" does not include:</u>
- (1) Bags used by consumers inside stores to: (A) package bulk items, such as fruit, vegetables, nuts, grains, candy, or small hardware items; (B) contain or wrap frozen foods, meat, or fish, whether prepackaged or not; (C) contain or wrap flowers, potted plants, or other items where

damage to or contamination of other goods placed together in the same bag dampness <u>may be</u>

a problem; or (D) contain unwrapped prepared foods or bakery goods; or,

- (2) Bags provided by pharmacists to contain prescription drugs; or,
- (3) (2) Newspaper bags, door-hanger bags, laundry-dry cleaning bags, or bags sold in packages containing multiple bags intended for use as garbage, pet waste, or yard waste bags.

(f) "Food Establishment" means a "food preparation and service establishment" as defined in

- (d) "Department" means the Department of the Environment.
- (e) "Director" means the Director of the Department of the Environment.
- Health Code Section 451 and permitted under Health Code Section 452.

 "Highly visible manner" means (1) for compostable plastic bags, displaying both of the following in green lettering contrasting with the bag's background color that is at least two inches high: (i) the phrase "Green Cart Compostable" "either on the front and back of the bag together with a solid green band at least one half inch thick circling the circumference of the bag, or repeatedly, as a band of text or text alternating with solid stripe, circling the circumference of the bag, and (ii) the word "Reusable" displayed on the front and/or back of the bag; and (2) for recyclable paper bags, displaying the words "Reusable" and "Recyclable" on the front and/or back of the bag in blue lettering contrasting with the bag's background color that is at least two inches high, and (3) for both compostable plastic bags and recyclable paper bags, as otherwise required by Department of the Environment regulations.
- (g) "Person" means an individual, trust, firm, joint stock company, corporation, cooperative, partnership, or association.
- (h) "Pharmacy" means a retail use where the profession of pharmacy by a pharmacist licensed by the State of California in accordance with the Business and Professions Code is practiced and where prescriptions (and possibly other merchandise) are offered for sale, excluding such retail uses located inside a hospital.

- (h) (i) "Recyclable" means material that can be sorted, cleansed, and reconstituted using San Francisco's available recycling collection programs for the purpose of using the altered form in the manufacture of a new product. Recycling does not include burning, incinerating, converting, or otherwise thermally destroying solid waste.
- (j) "Recyclable Paper Bag" means a paper <u>Checkout Bag bag</u> that meets all of the following requirements: (1) is 100 % recyclable, using the standards for San Francisco's available curbside recycling collection program; (2) contains no old growth fiber; (3) (2) is made of 100% recycled content, including recyclable overall and <u>contains</u> a minimum of 40% post-consumer recycled content, and the Department may modify the requirements for recycled content by regulation based upon environmental benefit, cost, and market availability; and (4) (3) is labeled <u>displays the word words "Reusable" and "Recyclable" on the front and/or back of the bag in blue lettering contrasting with the bag's background color, in lettering that is at least one inch in height in a highly visible manner on the outside of the bag,; and, (4) is labeled with the name of the manufacturer, the location (country) where manufactured, and the percentage of post-consumer recycled content in an easy-to-read size font.</u>
- (j) (k) "Reusable Bag" means a <u>Checkout Bag</u> with handles that is specifically designed and manufactured for multiple reuse <u>and meets all of the following requirements:</u>
- (1) Has a minimum lifetime capability of 125 or more uses carrying 22 or more pounds over a distance of at least 175 feet;
- (2) Is capable of being washed so as to be cleaned and disinfected at least 100 times hot water machine-washable;
- (3) If made of plastic, is at least 2.25 mils thick and contains at least 60 percent recycled content, including a minimum of 30 percent post-consumer recycled content;
- (4) Meets the standards of the California Toxics in Packaging Prevention Act (Cal. Health & Safety Code §§ 25214.11-25214.26), as amended, or any successor legislation;

- (5) Meets any standards for minimum recycled content established by regulation adopted by the Department, based upon environmental benefit and market availability.
- (6) Garment bags that meet the above criteria shall be considered reusable even if they do not have handles.
- (5) Is labeled "Reusable" on the front and/or back of the bag in lettering at least one inch in height; and,
- (6) Has printed on the bag, or on a tag that is permanently affixed to the bag, the name of the manufacturer, the country where the bag was made, and the percentage of post-consumer recycled material used, if any, in the manufacture of the bag.
 - (k) (1) "Store" means the following:
- (1) Until July 1, 2013, "Store" shall mean a retail establishment located within the geographical limits of the City and County of San Francisco. A "retail establishment" includes any public commercial establishment engaged in the sale of personal consumer or household items to the customers who will use or consume such items. that meets either of the following requirements:
- (2) Beginning July 1, 2013, "Store" shall also include any Food Establishment located within the geographical limits of the City and County of San Francisco.
- (1) Is a full-line, self service supermarket with gross annual sales of two million dollars (\$2,000,000), or more, and which sells a line of dry grocery, canned goods, or nonfood items and some perishable items. For purposes of determining which retail establishments are supermarkets, the City shall use the annual updates of the Progressive Grocer Marketing Guidebook and any computer printouts developed in conjunction with the guidebook; or
- (2) Is a retail pharmacy with at least five locations under the same ownership within the geographical limits of San Francisco.

(a) Imposing a Checkout Bag Charge.

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(1) Beginning July 1, 2012, no Store shall provide a Recyclable Paper Bag or Reusable

Bag to a customer at the point of sale, unless the Store charges the customer a Checkout Bag Charge of at least ten cents (\$0.10) per bag.

(2) Beginning July 1, 2013, no Store, including a Food Establishment, shall provide a Compostable Plastic Bag to a customer at the point of sale, unless the Store charges the customer a Checkout Bag Charge of at least ten cents (\$0.10) per bag.

(3) Beginning July 1, 2014, no Store, including a Food Establishment, shall provide a Recyclable Paper Bag, Reusable Bag, or Compostable Plastic Bag to a customer at the point of sale, unless the Store charges the customer a Checkout Bag Charge of at least twenty-five cents (\$0.25) per bag.

(4) No Food Establishment shall be required to charge its customers a Checkout Bag Charge for a bag provided for a customer's left-over food from sit-down restaurant dining.

(b) Controller's Report. After January 2012, and not later than January 2014, the Controller shall perform an assessment and review of the economic impacts on businesses. both large and small, of the 10 cent Checkout Bag Charge, and attempt to forecast how that impact might change when the Charge increases to 25 cents. Based on such assessment and review, the Controller shall submit an analysis to the Board of Supervisors. The analysis shall be based on criteria deemed relevant by the Controller, but should include a survey of whether and how the Checkout Bag Charge specifically has impacted businesses' profits and losses.

(c) (b) Checkout Bag Charge to be Separately Stated on Receipt. The amount charged pursuant to subsection (a) shall be separately stated on the receipt provided to the customer at the time

of sale and shall be identified as the Checkout Bag Charge. Any other transaction fee charged by the Store in relation to providing a Checkout Bag shall be identified separately from the Checkout Bag Charge.

(d) (c) Exemptions.

- (1) A Store shall not charge the Checkout Bag Charge required under subsection (a) where providing a Checkout Bag to a customer as part of a transaction paid for in whole or in part through to a customer participating in the Special Supplemental Food Program for Women, Infants, and Children (Article 2 (commencing with Section 123275) of Chapter 1 of Part 2 of Division 106 of the Health and Safety Code), or a customer participating in the State Department of Social Services Food Stamp Program.
- (2) A Store shall not charge the Checkout Bag Charge required under subsection (a) for a Reusable Bag which meets the requirements of this Chapter and which is distributed to a customer without charge during a limited duration promotional event, not to exceed seven days per year.
- (e) (d) Waivers. Any owner or operator of a Store may petition the Director of the Department of the Environment for a full or partial waiver of the requirements of this Section, for a period of up to one year, if the owner or operator can (1) demonstrate that application of this Section would create undue hardship or practical difficulty for the Store not generally applicable to other stores in similar circumstances, or (2) establish that the business as a whole cannot, under the terms of this Section, generate a return that is commensurate with returns on investments in other enterprises having corresponding risks and is sufficient to attract capital a fair rate of return on investment under the terms of this Section.
- (f) (e) Violations. Violations of this Section may be punished under the provisions of Section 1705. Collection of the Checkout Bag Charge shall not excuse any violation of any other provisions of this Chapter 17.

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Section 4. Additional Uncodified Provisions.

- (a) Operative Date. The provisions of this ordinance shall be operative on July 1, 2012, except as specifically provided otherwise in Section 1703.5(a)(2) and (3).
- (b) General Welfare. In adopting and implementing this ordinance, the City and County of San Francisco is assuming an undertaking only to promote the general welfare. It is not assuming, nor is it imposing on its officers and employees, an obligation for breach of which it is liable in money damages to any person who claims that such breach proximately caused injury.
- (c) Conflict with State or Federal Law. This ordinance shall be construed so as not to conflict with applicable federal or State laws, rules or regulations. Nothing in this ordinance shall authorize any City agency or department to impose any duties or obligations in conflict with limitations on municipal authority established by State or federal law at the time such agency or department action is taken.
- (d) Severability. If any of the provisions of this ordinance or the application thereof to any person or circumstance is held invalid, the remainder of those provisions, including the application of such part or provisions to persons or circumstances other than those to which it is held invalid, shall not be affected thereby and shall continue in full force and effect. To this end, the provisions of this ordinance are severable.

(e) Amendments. In enacting this Ordinance, the Board intends to amend only those words, phrases, paragraphs, subsections, sections, articles, numbers, punctuation, charts, diagrams, or any other constituent part of the Environment Code that are explicitly shown in this legislation as additions, deletions, Board amendment additions, and Board amendment deletions in accordance with the "Note" that appears under the official title of the legislation.

APPROVED AS TO FORM: DENNIS J. HERRERA, City Attorney

Ву:

THOMAS J. OWEN Deputy City Attorney

LEGISLATIVE DIGEST

(Amendment of the Whole, dated 11/22/2011)

[Environment Code – Checkout Bags, Checkout Bag Charge]

Ordinance amending the San Francisco Environment Code by: 1) amending Section 1702, to extend the restrictions on checkout bags from supermarkets and chain pharmacies to all retail establishments and food establishments in the City, and clarify terms; 2) adding Section 1703.5, to require stores to add a checkout bag charge of 10 cents, rising to 25 cents, if they provide a customer with a checkout bag; 3) setting an operative date of July 1, 2012; and, 4) making environmental findings.

Restrictions on Checkout Bags

City law currently states that supermarkets and chain pharmacies may only provide three kinds of checkout bags to customers: recyclable paper bags, compostable plastic bags, and reusable bags. Supermarkets and chain pharmacies may not provide customers with any other kinds of single-use disposable checkout bags, whether the bags are made of paper or plastic.

The proposal would amend the Environment Code to extend these requirements to all retail establishments (in July 2012) and all food establishments (in July 2013) in the City. It would also modify various definitions used in the Chapter.

Checkout Bag Charge

Current City law does not require stores to collect any sort of charge for checkout bags that they provide to customers. California Public Resources Code Section 42254(b)(2) generally prohibits a city or county from imposing a plastic carryout bag fee. Section 42254 will expire by operation of law on January 1, 2013, unless the Legislature acts to extend it.

Beginning July 1, 2012, the amendment would require all stores to add a Checkout Bag Charge of ten cents for each recyclable paper or reusable checkout bag they provide to a customer. (These stores may only provide recyclable paper, compostable plastic, or reusable checkout bags to customers. As noted above, the City may not impose a fee on the compostable plastic bags prior to 2013.) The stores would keep the money that they collected.

Beginning July 1, 2013, the amendment would require all stores, now including food establishments, to add a Checkout Bag Charge of ten cents (\$0.10) for compostable plastic checkout bags as well as for recyclable paper or reusable checkout bags.

Beginning July 1, 2014, the Checkout Bag Charge for all stores, including food establishments, would increase to twenty-five cents (\$0.25) for each recyclable paper, compostable plastic, or reusable checkout bag they provide to a customer.

Prior to January 2014, the Controller would study and report to the Board on the impact of the Checkout Bag Charge on businesses at 10 cents per bag, and estimate the impact at 25 cents per bag.

Stores would have to show the Checkout Bag Charge as a separate charge on the customer's receipt.

Stores would not collect a Checkout Bag Charge when providing a Checkout Bag to a customer as part of a transaction paid for in whole or in part through the Special Supplemental Food Program for Women, Infants, and Children, or the State Department of Social Services Food Stamp Program.

The owner or operator of a store could petition the Director of the Department of the Environment for a full or partial waiver of these requirements, for up to one year, under limited circumstances.

The City could punish violations of these requirements with administrative fines.

The amendment of whole, dated 11/22/2011, makes three changes to the legislation on file, dated 11/14/2011:

- The amendment of the whole further revises the definition of "Recyclable Paper Bag."
- It adds a provision requiring the Controller to study and report to the Board of Supervisors, no later than January 2014, on the impact of the Checkout Bag Charge on businesses at 10 cents per bag, and the estimated impact at 25 cents per bag.
- It revises the Environmental Findings to reference and adopt the Categorical Exemption Determination on file.

CITY AND COUNTY OF SAN FRANCISCO

OFFICE OF THE CONTROLLER

BOARD OF SUPERVISORS
SAN FRANCISCO

Controller

Monique Zmuda

Deputy Controller

Ben Rosenfield

2011 MOV 30 PH 4: 42

November 30, 2011

The Honorable Board of Supervisors City and County of San Francisco Room 244, City Hall

Angela Calvillo Clerk of the Board of Supervisors Room 244, City Hall

Re: Office of Economic Analysis Impact Report for File Number 101055

Dear Madam Clerk and Members of the Board:

The Office of Economic Analysis is pleased to present you with its economic impact report on file number 101055 "Bag Checkout Fee: Economic Impact Report." If you have any questions about this report, please contact me at (415) 554-5268.

Best Regards

Ted Egan

Chief Economist

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Office of the Controller — Office of Economic Analysis

Checkout Bag Charge:
Economic Impact Report
Office of Economic Analysis
November 30, 2011
Item #101055



County of San **Francisco**

Main Conclusions

- food service establishments. It also requires retailers to charge customers for each paper, compostable plastic, or After conducting an economic impact analysis, the OEA estimates that the legislation will have a very slight positive Analysis (OEA) has issued this report because, when the legislation was introduced, the OEA believed the legislation impact on the economy, with job creation of less than 25 jobs per year on average, under a wide range of might have a material economic impact on San Francisco reusable bag they require. The charge is set to \$0.10 in 2012, and will rise to \$0.25 in 2014. The Office of Economic The proposed legislation extends the City's 2007 plastic checkout bag ban to all retailers in San Francisco, including
- assumptions The OEA expects the legislation to substantially reduce the use of checkout bags in San Francisco. Similar charges or
- benefits from the plastics ban cannot be fully quantified, because the economic value of future environmental benefits addition, consumers will be spending more on reusable bags, and on home garbage can liners will continue to request single-use bags. The OEA estimates that these San Francisco consumers will be spending \$20 the costs to consumers of the bag charge will exceed the City's savings in litter and waste disposal costs fees in other cities and countries have had powerful impacts on consumer behavior. Nevertheless, some consumers cannot be estimated with certainty. Most of the benefits from the bag charge are easier to quantify. It is likely that The legislation will have the environmental benefits of reducing litter, and reducing waste and recycling costs. The million annually in checkout bag charges by 2014, although retail prices will also fall, benefitting consumers. In
- addition, the reduction in plastic and paper bag use will reduce retailers' overhead costs, also directly increasing their Retailers will be the prime financial beneficiary of the legislation. They will retain the bag charge as higher profits. In effect, the net cost to consumers is projected to lie in the \$10-12 million range annually by 2014 higher profit will be returned to consumers in the form of lower prices. When this reduction in prices is taken into profits. However, the OEA's modeling suggests that competition will force down retail prices, and roughly half of this
- cost to consumers would total \$5-6 million annually, with a \$0.10 charge to total \$11 million. Again about half of that would be returned to consumers through lower prices, and thus the net The City may wish to defer the increase from 0.10 to 0.25. Annual charge revenue at a 0.10 charge is estimated



County of San

Introductior

- San Francisco, in two ways: The proposed legislation modifies how checkout bags may be used in
- the ban only applies to supermarkets and chain pharmacies It extends the City's 2007 ban on plastic bags to all retailers as of July 1, 2012. Restaurants will be included in the ban as of July 1, 2013. Currently, It imposes a \$0.10 charge on all other checkout bags, including recyclable

paper bags, compostable bags, and reusable checkout bags. The charge will

rise to \$0.25 on July 1, 2014.

Some other bags, such as plastic bags used within stores, laundry bags, proposed legislation and newspaper bags, are not affected by the current ban or the



Francisco County of San

Background

- consumers do not have an economic incentive to limit their use, and may waste Because single-use checkout bags are included in the price of retail goods The Department of the Environment's fact sheet on the proposed legislation
- streams, and interfere with the City's zero-waste goals. states that single-use plastic bags harm marine life, contaminate recycling generate pollution, use dwindling resources, and create litter The Department further states that single-use recyclable and compostable bags
- separately by consumers, and the re-use of these bags is intended to replace the bags should encourage consumers to re-use them. bags is leading to their misuse as single-use bags. Applying the charge to these use of single-use bags. The Department believes the falling price of reusable The charge also applies to reusable bags, although these are normally purchased



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Current Checkout Bag Use in San Francisco

- The proposed legislation affects three kinds of retailers differently:
- Supermarkets and chain pharmacies, which are already affected by the bag charge, starting in July 2012 2007 plastic bag ban. The only change affecting these retailers will be the
- paper/compostable bags per year The OEA projects these establishments now distribute 0 plastic and 134 million
- would be affected by the plastic bag ban, and the checkout charge, in July Food service establishments, which are not affected by the 2007 ban. They
- bags per year The OEA projects these establishments now distribute 61 million plastic and 15 million paper
- affected by the plastic bag ban, and the checkout charge, in July 2012 All other retailers, which are not affected by the 2007 ban. They would be

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Details on the estimates can be found in the Appendix. The OEA projects these establishments now distribute 106 million plastic bags, and 59 million paper bags per year.



Consumer Responses to Bag Charges

- Bag charges or fees have led to significant reductions in bag use in other jurisdictions. Rather than paying the charge, most consumers have switched to a free alternative.
- bags should exceed the experience of other places. mandatory charge on paper and compostable plastic bags, the overall reduction in single-use Because the proposed legislation bans single-use plastic bags, as well as imposes

		in paper and compostable bags will likely not match the experience of other charges.	However, because the charge effects every all new permitted checkout bags, the reduction
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Location	Date	Bags Affected	Retailers Affected	Charge	Reduction in Affected Bags	Notes/ Source
Ireland	2002	Plastic	All	€0.15 (\$0.21)	90%	Sources: Herrera Environmental Consultants, ICF International, Hyder Consulting. Increased from 15 euro cents to 21 in 2007.
Washington DC	2010	Plastic & Paper	All stores selling food	\$0.05	60%	Safeway stores reported a 60% decline in both paper and plastic bags distributed at its DC stores. This is the most accurate available pre-and post-estimate.
Denmark	1994	Plastic & Paper	All	\$0.03/\$0.12	66%	The fee is included in the price of bags to the retailer. Sources: Herrera Environmental Consultants, San Jose and Seattle Bag Studies, Nolan-ITU, AECOM.
Taiwan	2007	Plastic	All	\$0.10	68%	Reduction in plastic bags is 68%; reduction in all bags is 57% due to some consumers switching to paper bags. Sources: Herrera Environmental Consultants, Nolan-ITU, GHK.
Victoria, Australia	2008	Plastic	Grocery	\$0.10	79%	Based on actual results from trial \$0.10 charge for carryout bags in 3 cities over a 4 week period in 2008. KPMG, "Trial of a Government and Industry Charge for Plastic Bags," Australia.
IKEA (retailer)	2007	Plastic	NA	\$0.05	92%	During trial period of IKEA's 'bag the plastic bag' program, consumers were offered IKEA's reusable bags for \$0.59, or they could purchase a plastic bag for \$0.05. Source: IKEA



County of San and Francisco

Economic Impact Factors

- The checkout charge will affect the economy in two primary ways:
- A decline in consumer spending on items unrelated to checkout bags:
- Some consumers—likely relatively few—will pay the bag charge
- Consumer spending on re-usable bags will increase
- Since some single-use bags are re-used as bag liners in the home, consumer spending on bag liners will increase
- Consequently, consumer spending on other items will decline by an equal amount
- An increase in retailer profits

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- Retailers will receive the bag charge revenue
- bags to re-usable bags that they (consumers) pay for Retailers will experience reduced overhead costs, as consumers switch away from single-use
- form of lower prices. All consumers will benefit from this. In time, competition among retailers will return some of these profits back to consumers in the
- as it did in 2007. This will marginally raise retailer costs. However, the benefits from the bag charge will weigh against these higher costs The extended plastic bag ban will lead consumers to switch to other alternatives,



Total Charge Revenue (\$M)	Charge per bag Charge Revenue (\$M)	Total Bags Consumed (M)	New Reusable bags needed (M)	Paper/Compostable bags used (M)	Plastic bags used (M)	All Other Retailers	Charge Revenue (\$M)	Charge per bag	Total Bags Consumed (M)	New Reusable bags needed (M)	Paper/Compostable bags used (M)	Plastic bags used (M)	Restaurants and Food Services	Cilaige nevellue (\$\pi\mu)	Chargo Downie (M)	Charge per bag	Total Bags Consumed (M)	New Reusable bags needed (M)	Paper/Compostable bags used (M)	Plastic bags used (M)	Supermarkets and Chain Pharmacies			
\$0.0	\$0.00	165	0	59	106		\$0.0	\$0.00	76	0	15	61		60.0	200	\$0.00	134	0	134	0	Now			
\$9.2	\$0.10 \$4.53	47	1.3	45	0		\$0.0	\$0.00	76	0.0	15	61		ę.,	7 12	\$0.10	48	1.4	47	0	Jul-12			
\$11.2	\$0.10 \$4.53	47	1.3	45	0		\$2.0	\$0.10	20	0.6	20	0		Ę	¢.4.7	\$0.10	48	1.4	47	0	Jul-13			
\$20.0	\$0.25	34	1.6	32	0		\$3.5	\$0.25	15	0.7	14	0		6	7 8 4	\$0.25	ၓၟ	1.6	34	0	Jul-14			
use will not be as great at those stores as it will at supermarkets and chain	these alternatives. Thus, the	charge discourages the use of	other alternatives, even as the	will force a shift to paper and	restaurants and other retailers	The plastic bag ban at	quantified here.	these savings are not	from lower retail prices, and	All consumers will also benefit	All concerns will also benefit	use single-use pags will lotar	consumers wno continue to	paid by the minority of	scenario, ioiai charge revenue		Under the OEA's most likely		discussed in the Appendix.	number of assumptions	affect bag use, based on a	proposed legislation might	The OEA modeled how the	

Estimation of Charge Revenue



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	Cost	
	S	
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an additional \$3 million because

Retailers are also projected to save

			•	they will need to spend less on
				aloy will hood to apollo loss of
				single-use bags to serve their
avings from Bag Reductions: All Retailers	Jul-12	Jul-13	Jul-14	customers. Again, some of these
nange in plastic bags used (M)	-106	-61	0	savings will be returned to
/erage cost	\$0.03	\$0.03	\$0 03	Conclimate in the form of lower
		0.00	6.00	consumers in the form of lower
nange in paper/compostable bags used (M)	-i 01	4	-39	prices.
/erage cost	\$0.08	\$0.08	\$0.08	
otal Retailer Savings (\$M)	\$11.01	\$1.36	\$3.12	In addition to the charge revenue,
				consumers are projected to spend
onsumer Costs from Single-Use Bag Substitutes	Ö			\$6 million annually, by 2014, on
ew reusable bags (M)	2.7	3.3	3.9	reusable bags and bag liners to
/erage cost	\$1.15	\$1.15	\$1.15	replace the single-use bags they no
ew bin liners (M)	21	26	30	longer use. These estimates are
verage cost	\$0.05	\$0.05	\$0.05	highly uncertain, however, as no
otal Consumer Costs (\$M)	\$4.18	\$5.14	\$6.05	rigorous studies of reusable bag and
				bin liner consumption have been

continue to use single-use bags. the relatively few consumers that The bulk of the burden will fall on



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Economic Impact Assessment

- charge, higher consumer spending on alternatives, and retailer overhead savings. The OEA's REMI model was used to estimate the net economic impact of the bag
- jobs per yeaı Using the estimates detailed on the previous pages, the total impact on private remained positive in every case, but always totaled less than 25 jobs per year on Under sensitivity testing (as described in the Appendix), the jobs impact non-farm employment in San Francisco was positive but very small—less than 10
- average approximately equivalent to a 0.2% sales tax increase on consumers as a whole Together, the checkout charge revenue and the additional consumer costs are Consumer prices are projected to fall by approximately 0.1% on average
- in the form of lower prices This indicates that roughly half of consumers costs will be returned to consumers
- The net cost to consumers will range between \$10-12 million.



County of San

Benefits of the Legislation: Expanded Plastic Bag Bar

- imposes a charge on permitted checkout bags, it is helpful to consider the benefits of the As the proposed legislation both broadens the City's ban on plastic checkout bags, and legislation in two parts
- The extension of the ban on plastic bags will have the following benefits
- Reducing the amount of plastic waste material that is sent to landfill, where it may not degrade for many years, and reducing the City's cost of waste disposal
- Reducing litter that is collected and disposed of by the City, and the City's cost of litter collection.
- degrades Reducing litter that is not collected by the City, and therefore pollutes the environment until it
- materials. The savings are estimated at \$0.1 million annually for litter, and \$0.6 million for affected plastic bags represent 0.6% of the city's litter, and 0.4% of its waste and recycled plastic bags may be quantified, based on projected bag reductions. The OEA estimates The potential reduction in City costs from waste disposal and litter collection of single-use
- bags that remain in the environment as pollution is unknown, and their future remediation However, the other benefits are harder to value and quantify because the number of littered costs are unknown



and County of San

Bag Charge Benefits of the Legislation:

- they create much less of a long-term environmental problem than single-use plastic bags. charge do not remain in the environment for long periods of time without degrading. Thus, Unlike single-use plastic bags, the paper and compostable bags that are subject to the
- The primary benefits of the checkout bag charge are:
- Reduction in litter, and the City's litter collection costs
- Reduction in the City's costs of recycling these bags
- three times the City's savings in waste and litter costs benefit consumers, and these savings in City costs, the net cost to consumers will be over By 2014, given the expected consumer costs, the expected reduction in retail prices that wil

estimated \$2.4 million in reduced recycling costs, and \$0.1 million in litter collection costs.

City's waste/recycling needs, and 0.5% of its litter. The City stands to save up to an

The OEA estimates that bag reduction caused by the charge will eliminate up to 1.5% of the



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Conclusions and Recommendations

- economy as a whole, will be very small, though positive. the same multiplier effects as consumer spending, the net impact of the legislation, for the San Francisco Because the full amount of checkout charge revenue will be received by local retailers that have essentially The proposed Checkout Bag Charge will be equivalent to a 0.1% sales tax increase to consumers, after
- benefits of lower City recycling and litter abatement costs. shopping. The bulk of the checkout charge will be paid by relatively few consumers that do not change their Under the most likely scenario, the cost of the charge to consumers, as a whole, significantly exceeds the behavior. All consumers, however, stand to benefit from reduced retail prices projected retail price declines occur. Most consumers are expected to use reusable bags for most of their
- subsequent increase. This implies consumers will be paying more in charge revenue when the charge Evidence from other places suggests that an initial charge creates a greater change in behavior than a
- 2013 impacts). Again about half of that would be returned to consumers through lower prices, and thus fully understood. Annual charge revenue at a \$0.10 charge is estimated to total \$11 million (see page 8 for the net cost to consumers would total \$5-6 million at a \$0.10 charge The City may wish to defer the increase from \$0.10 to \$0.25 a bag until the impact of the initial charge is increases to \$0.25, than they will when the charge is first instituted
- requiring retailers to report annual Checkout Bag Charge revenue to the Department of the Environment. In order to conduct a meaningful study of the initial impact of the legislation, the City should consider



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Appendix: Key Assumptions

- sensitivity testing. bag charge, as well as high- and low-impact alternative assumptions for The OEA developed a "most likely" model of consumer response to the checkout
- The assumptions used in all three models are listed below. Details are provided in the pages that follow.

110%	90%	100%	Number of bags used today (as % of most likely case)
30%	30%	30%	Further bag reduction from increasing charge to \$0.25
50%	95%	65%	Bag reduction caused by initial \$0.10 charge
25	200	50	Reusable bags: average times re-used
0.25	0.025	0.10	Bin liners needed per single-use bag saved
\$0.05	\$0.05	\$0.05	Average retail price - bin liner
\$1.15	\$1.15	\$1.15	Average retail price - reusable
\$0.08	\$0.08	\$0.08	Average wholesale price - paper/compostable
\$0.03	\$0.03	\$0.03	Average wholesale price - plastic bag
High Impact Scenario	Low impact Scenario	Most Likely Scenario	Assumption

and **County of San** Francisco

Appendix: Assumption Details

- Wholesale and retail bag prices:
- See detail on next 2 pages
- Bin liner and reusable bag substitution:
- Bag reduction due to charge single-use bags a reusable bag can replace. Wide estimates for these assumptions were therefore near the mid-range of the experience of other places. Ireland and Victoria, Australia provide evidence Very little solid evidence exists on how consumers re-use single-use bags as bin liners, and how many Initial bag reduction is difficult to assess because pre-charge bag use can only be estimated. 65% is used in the sensitivity testing.

on what happens when an existing fee is increased; the secondary reduction is lower than the initial

reduction. The figure used here is based on an average of the Ireland and Victoria experiences

- Number of Bags
- of bag use across different types of retailers from Australian data, overall estimates of bag use in San Francisco were estimated. See Nolan-ITU, 2002 "Plastic Shopping Bags-Analysis of Levies" and Hyder used to estimate bag use for all grocery and pharmacy stores. Based on estimates of the distribution 150 million plastic checkout bags were being used annually at affected stores. Sales tax data was Before the 2007 plastic bag ban went into effect, the Department of the Environment estimated that Consulting, 2006 "Plastic Retail Carry Bag Use," both for Environment Australia



Appendix: Bag Types and Prices

OEA, ULINE, Stewarts Packaging, other online outlets, grocers 12x7x17, 12x7x14 City of Santa Monica Nexus Study, January 2010, by R3 Consulting Group. Based on store interviews, pg 15 Herrera Environmental Consultants, "San Jose Single-Use Carryout Bag Fee Fiscal Analysis," 7/12/2010, Table F-1	OEA, ULINE, Stewarts Packaging, other online outlets, grocers		Recycled Paper Handled Grocery Bags - 100% Recycled Content, minimum 40% Post Consumer	AVERAGE of Range \$	Table 3 \$	OEA, ULINE, Stewarts Packaging, other online outlets. 12x7x17 Herrera Environmental Consultants, "San Jose Single-Use Carryout Bag Fee Fiscal Analysis," 7/12/2010, Table F-1	Regular Paper Handled Grocery Bags - < 40% Recycled Content	AVERAGE of Range \$	OEA, ULINE, Stewarts Packaging 12x7x22 to 10x6x21	AVERAGE of Range \$	Overview of Carryout Bags in LA, 2007 Pg 36 (in R3 Santa Monica report)	Herrera Environmental Consultants, "San Jose Single-Use Carryout Bag Fee Fiscal Analysis," 7/12/2010, Table F-1 A FOOM "Food Impact Analysis - Proposed Ran on Plastic Carryout Bags in Los Angeles County," 11/3/2010, Table 3.	OEA, ULINE, Stewarts Packaging, other online outlets.	Regular Plastic "T-Shirt" Bag	Bag Type/ Source Bag Size	Per Bag Cost Range
\$ 0.155	\$ 0.161	0		\$ 0.104	\$ 0.100 \$ 0.100	\$ 0.088 \$ 0.129		\$ 0.053	\$ 0.053	\$ 0.026	\$ 0.030	\$ 0.024	\$ 0.028		Average	Per
€6	69 6	₽ €)	49	& &	⇔ 		€5	69	€	⊕	မှာ မ	••		,	Bag C
0.099	0.140	0.076	976	0.067).050).050	0.078 0.090	-	0.046	0.046	0.016	0.020	0.012	0.017	:	LOW	Per Bag Cost Range
s	60 6	^ € 3	•	€9	क क	()		49	€9	↔		69 6				nge
0.211	0.220	0.163		0.164	0.150 0.230	0.097 0.180		0.060	0.060	0.037	0.050	0.03/	0.037	• .	High	
	2010	2011			2010 2007	2011 2010			2011		2007	2010	2011		Year	



AVERAGE

\$0.026

0.027

2011

Appendix: Bag Types and Prices

	Per B	r Bag	ag Cost Range	nge		
Bag Type/ Source Bag Size	Average		Low		High	Year
Regular Paper Grocery/Food Service Bags - < 40% Recycled Content (smaller size)						
Source: OEA, various online outlets 4.5x2.5x8.25 to 7x16	()					2011
AVERAGE	\$0.030	۱	0 009	*	0.048	-
Recycled Paper Groceny/Food Service Bags - 100% Recycled (smaller size)		, •			ć	
Source: OEA, various online outlets 4.5x2.5x8.25 to 7x16						2011
AVERAGE	\$0.040	·c»	0.022	\$	0.064	:
Regular Paper Merchandise Bags - Regular Unbleached, < 40% Recycled Content (smaller size)						
Source: OEA, various online outlets 6.25x9.25 to 16x4x24						2011
AVERAGE	\$0.048	æ	0.019	8	0.127	
Recycled Paper Merchandise Bags - 100% Recycled (smaller size)						
Source: OEA, various online outlets 6.25x9.25 to 16x4x24						2011
AVERAGE	\$0.055	S	0.023	\$	0.135	
Regular Paper Merchandise Bags - Specialty Retailer - Boutique Handled Bags (non recycled)				-		
Source: OEA, various online outlets 6.5x3.5x6.5 to18x7x19						2011
AVERAGE	\$0.704	€9	0.316	es 	1.120	
Regular Specialty Retailer Paper Merchandise Bags - Boutique Handled Bags (non recycled)			,			
Source: OEA, various online outlets 5x3.5x8 to 16x6x19	-	. *				2011
AVERAGE	\$0.300	€9	0.252	\$ 0.	0.385	
Recycled Specialty Retailer Paper Merchandise Bags - Boutique Handled Bags						
Source: OEA, various online outlets 5x3.5x8 to 16x6x19					٠.	2011
AVERAGE	\$0.334	S	0.260	0	0.435	
Reusable Bag - Non-Woven Polypropylene, or Cotton						Ì
Source: OEA field survey, Whole Foods, Safeway, REI; ULINE wholesale cost	\$ 1.152	€9	0.590	1.	1.990 2	2011
Herrera Environmental Consultants, "San Jose Single-Use Carryout Bag Fee Fiscal Analysis," 7/12/2010, Table F-1	\$ 1.000	⇔		_		2010
AECOM, "Economic Impact Analysis - Proposed Ban on Plastic Carryout Bags in Los Angeles County," 11/3/2010, Table 3, Overview of Carryout Bags in LA, 2007 Pg 36 (in R3 Santa Monica report)	\$ 0.870 \$ 2.990	89 69	0.750	9 9	2990	2010
AVERAGE	\$1.503	S	1.333 S		•	



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