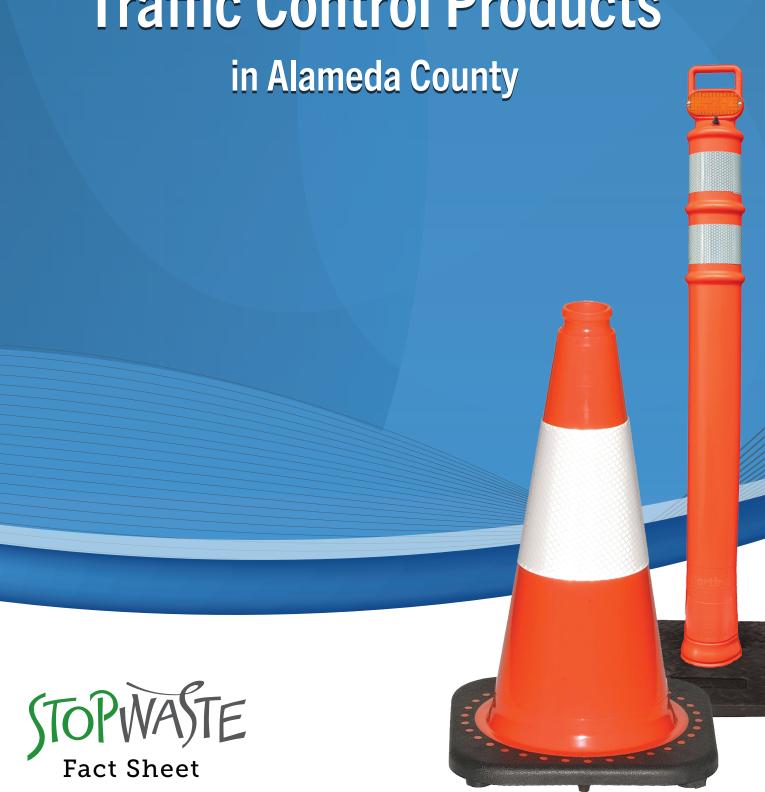
Environmentally PreferableTraffic Control Products





Environmentally Preferable Traffic Control Products in Alameda County

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Ap	pendix A: Recycled Content Traffic Control Products and Sources 7

Throughout the United States, local and state transportation departments have approved for use, high-quality road and highway products made with recycled materials. These agencies are purchasing a variety of products, including recycled content traffic cones, traffic barricades, channelizers, delineators, parking stops, sound barriers, seismic joints, object markers, reflective glass beads and much more.

Over two dozen recycled items are found on the California Department of Transportation's (Caltrans) "Authorized Material Lists" for example. For a listing of Caltrans-approved products made with recycled content, please refer to the attached Appendix.

These traffic control products have been found to deliver high performance, often reduce maintenance costs and sometimes have additional benefits.

1. TRAFFIC CONTROL PRODUCTS CONTAINING RECOVERED MATERIALS

The U.S. Environmental Protection Agency (EPA) recommends minimum recycled content levels when purchasing traffic control products, as shown in the table below. Rather than specifying just one level (percentage) of recycled content, ranges are offered that reflect actual market conditions.

When purchasing products, make sure to specify postconsumer recycled content (materials collected from office/curbside recycling programs to make new products) or total recovered materials content (postconsumer plus preconsumer materials generated after the manufacturer of a product but before it reaches the consumer). In California, "made from California waste or recycled tires" can also be specified and would contain postconsumer content.

Benefits of Recycled Content

The benefits of purchasing Recycled Content Traffic Products may include:

- Durable and resilient to various climates and exposure to elements
- Low installation and maintenance time
- Weigh less than many non-recycled product substitutes
- Reduced cost
- Variety of product options

EPA'S RECOMMENDED CONTENT LEVELS FOR TRANSPORTATION PRODUCTS¹

TRANSPORTATION PRODUCTS	RECOVERED MATERIALS CONTENT
Traffic Cones	
Plastic (PVC and LDPE)	50-100% total
Crumb Rubber	50-100% total
Traffic Barricades (type I and II only)	
Plastic (HDPE, LDPE, PET)	80-100% postconsumer/100% total
Parking Stops	
Plastic and/or Rubber*	100% postconsumer
Concrete Containing Coal Fly Ash	Generally, 20-30% total, but could be up to 40%. 15% when used as a partial cement replacement as an admixture in concrete
Concrete Containing Ground Granulated Blast Furnace Slag	25-70% total
Traffic Control Devices: Channelizers	
Plastic	25-95% postconsumer
Rubber (base only)	100% postconsumer
Traffic Control Devices: Delineators	
Plastic	25-95% postconsumer
Rubber (base only)	100% postconsumer
Flexible Delineators: Plastic	25-85% postconsumer

^{*} May include other recovered materials such as sawdust, wood, or fiberglass.

¹ U.S. EPA Comprehensive Procurement Guidelines for Transportation Products: www.epa.gov/smm/comprehensive-procurement-guidelines-transportation-products



TRAFFIC CONES

Traffic cones are used to direct traffic or indicate a road hazard. Postconsumer plastics (PVC or LDPE) are used in the upper portion of the cones. Recycled crumb rubber or plastics can be used in the base or stabilizer.

- These light-weight orange cones are great. They're easy to work with and may eliminate some potential back injuries. It is also a pleasure to have purchased recycled materials."
 - Castro Valley Sanitary District Staff

BARRICADES

Traffic barricades are used to redirect or block traffic usually associated with highway construction or repair. Barricades can be made from wood, steel, plastic or a combination of these materials. Many manufacturers have switched to the use of recycled materials in both the supporting frame and rails of the barricades.

- Our recycled plastic barricades have worked quite well for the last 4-5 years. They hold up better than metal, and there's no rust or corrosion. They don't become potential projectiles when hit, and they're light and easy to use."
 - City of Oakland Staff

CASE STUDY: PERFORMANCE, FLEXIBILITY AND SAFETY

The City of Livermore in California has been using several recycled-content, traffic control devices successfully, namely traffic cones, barricades and traffic-calming devices (or flexible curb systems).

Cones with recycled rubber bases and barricades made from recycled plastic are used for special events and for traffic control and work-zone safety.

The traffic-calming devices are removable, and provide City staff the flexibility to assess whether or not such devices would actually slow the speed of automobiles in several residential neighborhoods.

After many months, staff concluded that these devices, made from recycled rubber tires, performed as needed — slowing cars down and increasing the safety of neighborhood children. The curb systems will continue to be reused and tested in other areas of Livermore before the City decides on permanent curbing and landscaping.

DELINEATORS AND CHANNELIZERS

Delineators are temporary pavement markers available in a variety of shapes and sizes. Most of the recycled delineators are manufactured from postconsumer plastics, such as PET (e.g., soda bottles) or polycarbonate plastic (e.g., CDs).

Delineator bases are either steel stakes that are driven into the ground or rubber (postconsumer or virgin) to support the delineator on the road surface. Flexible delineators have stakes that are driven into the ground to strengthen their flexibility when struck by a vehicle.

Channelizers are relatively large barrels or drums that direct traffic around areas of road repair and construction. Channelizers can be constructed from postconsumer plastics and/or rubber (usually in the base for weight and stability).



PARKING STOPS, SPEED BUMPS, AND WHEEL BLOCKS

Parking stops are used in parking areas to mark parking spaces and to keep vehicles from rolling beyond a designated area. Recycled content parking stops are generally made from recycled plastic, rubber or concrete containing recovered materials (coal fly ash or ground granulated blast furnace slag).

Speed bumps are used to calm or slow vehicle traffic down to 5-15 miles per hour and can be made from recycled plastic or rubber. Speed bumps are generally 10-12 inches wide in the driving direction and 2-4 inches tall. On the other hand, speed humps are 12-14 feet long in the vehicular driving direction and about 3 inches high. Speed humps are designed for 25-40 miles per hour. Both speed bumps and humps can be made from recycled rubber.

Chock/Wheel Blocks placed against vehicle tires help prevent vehicles from moving. Most recycled wheel blocks contain 80-100% postconsumer recycled plastic or rubber.

BUMPER GUARDS AND CURB RAMPS:

A Case Study for Reducing Costs and Improving Worker Conditions

The City of Santa Monica sanitation crews fastened recycled rubber bumper guards to reduce damage to concrete enclosure walls from wheeled dumpsters. The bumper guards diverted over 2,900 tires from landfill. The City's Sanitation Department also purchased portable rubber curb ramps to push against curbs to easily maneuver dumpsters off and on sidewalks. Convenient metal handles were fastened to the 30 lb. ramp allowing crews to easily grab and store the ramps in the collection vehicles between stops. The ramps diverted over 440 passenger tires.

Benefits:

- Well-suited for outdoor applications
- ☑ Durable and maintenance-free
- ✓ Reduced labor requirements to move dumpsters
- Lightweight
- Reduced risk of damage to enclosure walls

TRAFFIC PAINT

A comprehensive resource for buying less toxic and environmentally preferable traffic paint was prepared for the Washington State Department of Enterprise Services. Funded by the National Association of State Procurement Officials (NASPO), the Green Purchasing Best Practices Guide to Traffic Paint (www.responsiblepurchasing.org/purchasing_guides/traffic_paint/naspo_rpn_traffic_paint_purchasing_guide.pdf) offers specifications, tips for preparing and evaluating bid documents, and information on the types and availability of "green" products. The Guide points to the following preferred environmental criteria:

- ✓ Waterborne (water-based)
- 100 g/I VOC limit as set by the South Coast Air Quality Management District (SCAQMD)
- Free of lead, hexavalent chromium, cadmium, barium, mercury, aromatic or chlorinated solvents (e.g., methylene chloride, benzene, ethyl benzene, or toluene), or ethyl-based glycol ethers or their acetates.
- Free of chemicals suspected to be human carcinogens (Group 1) by the International Agency for Research on Cancer (IARC). The complete list is described and explained by the American Cancer Society at:
 www.cancer.org/cancer/cancer-causes/general-info/known-and-probable-human-carcinogens.html



Throughout California, traffic calming sign bases made from recycled tires have proven benefits:

- One to three recycled tires are used in each sign base, diverting scrap tires from the landfill.
- The heavy weight of the recycled tire rubber provides stability for a variety of portable signs and posts.
- **☑** Rubber bases are re-boundable or detach upon impact.
- ☑ In-street temporary signage can be used in pedestrian zones, near K-12 schools, in parking garages and at public events.
- Vertical panels are portable safety signs used at road construction to divert traffic.
 The stripes are slanted to show drivers the direction in which they are to move.



2. VENDOR AND PRODUCT RESOURCES

A sample listing of traffic control products made with recycled content (many approved by Caltrans) — delineators, traffic cones, barricades, channelizers, parking stops, speed bumps, sound barriers, object markers, signs, pavement markers and reflective glass beads/spheres — is included in the Appendix at the end of this Fact Sheet. Local sources for these products are provided.

For local agencies interested in Caltrans-approved products, check the **California Department of Transportation's Authorized Material Lists** (www.dot.ca.gov/aml), including signing and delineation materials, high-performance retroreflective glass-bead products, noise barrier systems, and traffic paint, among others. This list is updated regularly but it does not indicate which products have recycled content and which do not.

CalRecycle (California Department of Resources Recycling and Recovery) provides a wealth of information on products made from waste tires (**Tire-Derived Products**, or TDP) at www.calrecycle.ca.gov/Tires/Products. Be sure to check the traffic control product catalog, list of vendors, product descriptions and case studies www.calrecycle.ca.gov/Tires/Products/Types/Traffic.htm.

3. ADDITIONAL RESOURCES

There are many resources available to help identify recycled content products and their performance, see sample bids and specifications, and read case studies of successful programs.

- StopWaste offers technical assistance to Alameda County public agencies and businesses for purchasing
 environmentally preferable products. Resources such as additional fact sheets, guides and links to other
 helpful environmental purchasing websites and documents can be found at www.StopWaste.org/EPP.
- To find out how and where to recycle any type of recyclable item in Alameda County, check out the online search tool "RecycleWhere?" at www.StopWaste.org/recycle.



- Alameda County and the General Services Agency are committed to sharing their resources and
 experiences to promote green purchasing in public agencies. Policies, success stories, bids, specifications
 and other resources are available at www.acsustain.org.
- The California Department of General Services Environmentally Preferable Purchasing Program provides
 information on how the State is succeeding in buying environmentally sustainable products and services.
 Click on the "Buyers Guide" tab at www.dgs.ca.gov/BuyingGreen to find detailed information on State
 contracts and recommendations for greening commercial products and services.
- The U.S. Environmental Protection Agency's Environmentally Preferable Purchasing Program offers tools, such as the Comprehensive Procurement Guidelines (CPG), for professionals and consumers on how to evaluate and purchase green products and services. See www.epa.gov/greenerproducts.
- The U.S. General Services Agency offers the Green Procurement Compilation as a resource designed for federal contracting personnel and program managers to help identify applicable green purchasing requirements in one place. See sftool.gov/greenprocurement and click on "Procure."
- The Responsible Purchasing Network (RPN), www.responsiblepurchasing.org, offers procurement-related professional guides and resources on socially responsible and environmentally sustainable purchasing. Some resources are only available to members.
- The Sustainable Purchasing Leadership Council (SPLC), offers guidance and resources on sustainable
 purchasing for all sectors to help prioritize opportunities, identify existing leadership standards and
 approaches and benchmark progress toward goals. Some resources are only available to members. See
 www.sustainablepurchasing.org.

Disclaimer: The information provided in this Fact Sheet should be considered by public agency and business purchasers who are interested in buying environmentally preferable products. It is provided as a public service by StopWaste in an attempt to provide environmental benefits and reduce costs. The information on products listed is supplied by the manufacturers. Listing in this Fact Sheet is not a recommendation or an endorsement. This Fact Sheet is not a substitute for the exercise of sound judgment in particular circumstances and is not intended as recommendations for particular products or processes. StopWaste is the Alameda County Waste Management Authority, the Alameda County Source Reduction and Recycling Board, and the Energy Council operating as one public agency.

This Fact Sheet was last updated in December 2017 by Sustainable Concepts Studio on behalf of StopWaste.



APPENDIX A: RECYCLED CONTENT TRAFFIC CONTROL PRODUCTS AND SOURCES

The product types are mostly specific to **Caltrans Prequalified and Tested Signing and Delineation Materials** list (www.dot.ca.gov/aml/docs/signing_and_delineation_materials.pdf). Ask the distributor for alternative recycled content product types that may better suit your needs.

Product information is supplied by the manufacturers and is not verified. Exercise sound judgment and research products for your specific application. The information listed is subject to change and does not represent all available sources for products. Refer to the resources provided in this Fact Sheet for additional information.

DELINEATORS – FLEXIBLE

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
	Pexco LLC, Flexi- Guide Models 400 and 566	Class I, one piece driveable flexible			Bay Area Barricades Concord, CA (925) 686-1089 Contact: Craig
Flexi-Guide FG 400 and 500 Guide Posts	Pexco LLC, Flexi- Guide Model FG 560	Class I, special use flexible type	Pexco LLC Tacoma, WA (253) 284-8000 www.pexco.com/traffic Local Rep:	5% postconsumer/ 50% total recycled (recycled polycarbonate plastic)	Statewide Traffic Safety San Jose, CA (408) 993-9770 Contact: Kamau Harper Fairfield, CA (707) 864-9952
			Jay Ruegner Cell: (408) 431-8689		Interstate Traffic Control Product San Carlos, CA (650) 591-2300 Contact: Mark Dellamonica San Jose, CA (408) 279-4116
	FlexStake Model 654 TM	Class I, one piece driveable flexible	. FlexStake		ACME Safety and Supply National City, CA (619) 299-5100 Contact: Richard Anderson
All FlexStake Ground Mount Series	FlexStake Model 604	Class I, special use	Fort Myers, FL (800) 348-9839 www.flexstate.com Contact: Robert Hughes	Minimum 51% postconsumer (PET, polycarbonate plastic)	Safety Network Fresno, CA (559) 291-8000, ext 1107 Contact: Leonard
	FlexStake Models 704, 754 TM, and EB4	Class I, surface mount			Westco Parking Pacifica, CA 650-355-0635 (800) 978-4621 Contact: Wolfgang Keiser



Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
Shur-Tite Products	Shur-Flex Drivable	Class I, special use	Shur-Tite Products Round Rock, TX (512) 218-9500 www.shur-tite.com	No less than 70% post- consumer (HDPE plastic)	Contact manufacturer: Gary Champ (512) 971-9502
Earthflex Product	Earthflex TD 5500	Class 1, Special Use Type	Three D Traffic Works Burbank, CA (877) 843-9757 www.trafficwks.com Contact: Frank	100% postconsumer HDPE in post	Bay Area Barricades Concord, CA (925) 686-1089 Contact: Craig

DELINEATORS - CONICAL

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
Channelizer Cone	42" Channelizer Cone C-42 Portable, stackable	l '	Work Area Protection St. Charles, IL (800) 327-4417 workareaprotection.com	100% postconsumer rubber base (recycled	S&S Supplies and Solutions Martinez, CA (925) 313-0360 Contact: Charlie Holmes
Grammenzer Gorie		stackable		tires)	D&M Traffic Services Santa Clara, CA (408) 436-1127
					Contact: Kevin Cooper Direct: (408) 591-3108
Channelizer Cone	TD7500 Ringtop Slim- Line Channelizer	Portable, stackable	Three D Traffic Works Burbank, CA (877) 843-9757 www.trafficwks.com Contact: Frank	95% postconsumer rubber base	Bay Area Barricades Concord, CA (925) 686-1089 Contact: Craig
Delineator, Conical	Grabber-Tube, 42000 Series, 42"		TrafFix Devices, Inc 160 Avenida La Pata San Clemente, CA (949) 361-5663 www.traffixdevices.com	100% postconsumer rubber base	Cal Safety Inc. 4366 Enterprise Street Fremont, CA (510) 656-5544 Contact: Charlie



DELINEATORS – GUARD RAILING

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
					ACME Safety and Supply National City, CA (619) 299-5100 Contact: Richard Anderson
All FlexStake sizes	FlexStake Model 102 GR	Guard Railing Delineator, wood post	FlexStake Fort Meyers, FL (800) 348-9839 www.flexstake.com	100% postconsumer (polycarbonate plastic)	Safety Network Fresno, CA (559) 291-8000
		type	Contact: Robert Hughes		Westco Parking
					Pacifica, CA Contact: Wolfgang Keiser 650-355-0635 (800) 978-4621
		Railing Delineator, wood post			Bay Area Barricades Concord, CA (925) 686-1089
					Contact: Craig
Guardrail Mount Delineators Model FG 427 and 527			Pexco LLC Tacoma, WA www.pexco.com/traffic Local Rep: Jay Ruegner Cell: (408) 431-8689 Office: (253) 284-8000	5% postconsumer/ 50% total recycled (recycled polycarbonate plastic)	Statewide Traffic Safety San Jose, CA (408) 993-9770 Contact: Kamau Harper Fairfield, CA (707) 864-9952
					Interstate Traffic Control Product San Carlos, CA (650) 591-2300
					Contact: Mark Dellamonica
Shur-Tite Products	Shur-Flex Flat Mount	Guard Railing Delineator, wood post type	Shur-Tite Products Round Rock, TX (512) 218-9500 www.shur-tite.com	No less than 70% postconsumer (HDPE plastic)	Contact manufacturer: Gary Champ (512) 971-9502
Three D Traffic Works Guardflex	Guardflex TD 9100	Guard Railing delineator, wood post type	Three D Traffic Works Burbank, CA (877) 843-9757 www.trafficwks.com Contact: Frank	100% postconsumer recycled content	Bay Area Barricades Concord, CA (925) 686-1089 Contact: Craig



CHANNELIZERS

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
					ACME Safety and Supply National City, CA (619) 299-5100
					Contact: Richard Anderson
All FlexStake Channelizers,	FlexStake Channelizer Model 703 and 753	Surface Mount	FlexStake Fort Meyers, FL (800) 348-9839 www.flexstake.com	100% postconsumer (polycarbonate plastic)	Safety Network Fresno, CA (559) 291-8000, 1107
Surface Mount	TM	Wount	Contact: Robert Hughes	(polycarbonate plastic)	Contact: Leonard
					Westco Parking Pacifica, CA 650-355-0635 (800) 978-4621
					Contact: Wolfgang Keiser
	Flexi-Guide Models FG336PE, FG336UR FG336EFX, City Post	Surface Mount			Bay Area Barricades Concord, CA (925) 686-1089
	& City Post SM			Base and curb are minimum 5% recycled thermoplastic	Contact: Craig
	Flexi-Guide (FG) 300 Curb System	Lane	Pexco, LLC Tacoma, WA		Statewide Traffic Safety San Jose, CA (408) 993-9770
Flexi-Guide, FG 300 Series		separation system	on www.pexco.com/traffic Local Rep: Jay Ruegner Cell: (408) 431-8689 Office: (253) 284-8000		Contact: Kamau Harper Fairfield, CA (707) 864-9952
	Flexi-Guide (FG) 300				Interstate Traffic Control Product San Carlos, CA (650) 591-2300
	Curb System				Contact: Mark Dellamonica San Jose: (408) 279-4116
Boomerang Products	Three D Traffic Works 5200 Series	Surface Mount	Three D Traffic Works Burbank, CA (877) 843-9757 www.trafficwks.com	Tube - 70% postconsumer (HDPE plastic) Base - 100%	Bay Area Barricades Concord, CA (925) 686-1089
			Contact: Frank	secondary (urethane)	Contact: Craig
	Shur-Flex	Surface Mount	Shur-Tite Products Round Rock, TX	No less than 70%	Contact manufacturer:
Shur-Tite Products	Shur-Curb Model SF0200	Lane Separation System	(512) 218-9500 www.shur-tite.com	postconsumer (HDPE plastic)	Gary Champ (512) 971-9502



TRAFFIC CONES

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
Traffic Cone	N/A	Various sizes, one piece	Work Area Protection St. Charles, IL (800) 327-4417 www.workareaprotection.com	7-8% postconsumer (mostly in base/stabilizer) Made from PVC	S&S Supplies and Solutions Martinez, CA (925) 313-0363 Contact: Charlee Holmes D&M Traffic Services Santa Clara, CA (408) 436-1127 Contact: Kevin Cooper Direct: (408) 591-3108
Traffic Cone	N/A	28 inch, 10 pound	JBC Safety Plastic 16750 Chestnut St City of Industry, CA (866) PICK-JBC	70% postconsumer (100% postconsumer rubber base)	Western Traffic Supply 3942 Valley Avenue Pleasanton, CA (925) 249-1854 Contact: Ed

BARRICADES

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
Traffic Barricade TD2100		Type I and Type II, depending on reflective sheeting	Three D Traffic Works Burbank, CA	30% postconsumer (polypropylene), 65% secondary materials	Bay Area Barricades Concord, CA
Traffic Barricade TD2150 Econocade		Type I and Type II	www.trafficwks.com (877) 843-9757 Contact: Frank	95% postconsumer (HDPE plastic)	(925) 686-1089
Workguard Barrier System		Safety barricade	- Contact: Frank	100% postconsumer rubber base	Contact: Craig
TB3 Barricade	N/A Barricade, orary strian Access Type II barricade	Type III barricade			Bay Area Barricades Concord, CA (925) 686-1089 Contact: Craig
TPAR Barricade,			Pexco LLC Tacoma, WA www.pexco.com/traffic Local Rep: Jay Ruegner Cell: (408) 431-8689	Base and curb are minimum 5% recycled thermoplastic	Statewide Traffic Safety San Jose, CA (408) 993-9770 Contact: Kamau Harper Fairfield, CA (707) 864-9952
Temporary Pedestrian Access Route		Office: (253) 284-8000		Interstate Traffic Control Product San Carlos, CA (650) 591-2300	
					Contact: Mark Dellamonica San Jose, CA (408) 279-4116



PARKING AND TRAFFIC CONTROL DEVICES

Recycled Products Available	Manufacturer	%Recycled / Material Content	Distributors in Bay Area	Purchasing Resources
Parking Stops and Speed Bumps	Bright Idea Shops, LLC Akron, Ohio 330-258-0168 Contact: Benjamin Denker www.brightideashops.com	97% postconsumer recycled plastic (HDPE)	Call manufacturer	GSA Advantage GS-07F-0212L (ends March, 2021)
Parking Stops, Speed Bumps and Wheel Chocks	Plastic Recycling of Iowa Falls Iowa Falls, Iowa (800) 338-1438 www.plasticrecycling.us	51%-75% postconsumer plastic	Call manufacturer	
Speed Bumps and Wheel Stops	Road Kare International	100% postconsumer plastic	Lake Traffic Solutions Walnut Creek, CA	
Speed Cushions, Breakers, and Flexible Curbing	Grand Prairie, TX www.roadkare.com (972) 623-9885	98% postconsumer rubber	(925) 930-9603 www.laketraffic.com Contact: Art Lake	
Speed Bumps, Sign bases for parking lots	Millennium Molding Fontana, CA (951) 509-9393 www.mmolding.com	100% postconsumer rubber	Call manufacturer	
Parking Stops, Speed Bumps, Wheel Stops, Speed Humps and Speed Cushion	Rubberform Recycled Products Lockport, NY Contact: 716-478-0404	100% postconsumer rubber	Call manufacturer	GSA Advantage GS-07F-0427N (ends April 2018) Contractor: Spill 911, Inc. 800-474-5911 www.spill911.com
Speed Cushions and Tables, Humps, Bumps, and Parking Curb	Traffic Logix Spring Valley, NY Contact: (866) 915-6449 www.trafficlogix.com	100% postconsumer rubber	Call manufacturer	
Wheel Stops	Yosemite Nursery Ripon, CA www. yosemitenursery.com Contact: Loren Jessop (209) 824-0341	100% postconsumer rubber	Call manufacturer	By special order only in 3 and 6 foot lengths
Speed Bumps and Parking Stops American Recycled Plastics, Inc. Palm Bay, Florida (866) 674-1525 www.itsrecycled.com		20% postconsumer plastic (HDPE)	Call manufacturer	
Parking Stops including Green EV Parking Stops	The Parking Block Store West Chester, PA (800) 683-9963	Rubber Stops - 100% postconsumer rubber; Plastic Stops - 100% postconsumer plastic	Traffic Safety Store West Chester, PA (800) 429-9030 www.trafficsafetystore.com	EV parking stops qualify under LEED Standards



OBJECT MARKERS

Recycled Products Available	Caltrans Prequalified and Tested Products	Туре	Company	%Recycled / Material Content	Distributors in Bay Area
					ACME Safety and Supply, National City, CA (619) 299-5100
					Contact: Richard Anderson
FlexStake, Model	Type "K" and Type "Q"	FlexStake,	FlexStake Fort Meyers, FL (800) 348-9839	51% postconsumer	Safety Network Fresno, CA (559) 291-8000
701 KM	Object Markers	Model 701KM	Contact: Cindy Horton www.flexstake.com	recycled plastic	Contact: Leonard
					Westco Parking Pacifica, CA (650) 355- 0635 (800) 978-4621
					Contact: Wolfgang Keiser
Boomerang	Type "Q" Object Markers	Boomerang TD5200 (with part 531702W	Three D Traffic Works Burbank, CA (877) 843-9757 Contact: Frank	70-90% postconsumer polyethylene (tube) and 100%	Bay Area Barricades Concord CA (925) 686-1089
		or 520896W)	www.trafficwks.com	postindustrial (base)	Contact: Craig
Shur-Tite Products	Type "K" Object Markers	Shur-Flex Driveable EC18WP3- 6X12K DC18WP3- 6X12K	Shur-Tite Products Round Rock, TX (512) 218-9500 www.shur-tite.com	No less than 70% postconsumer (HDPE plastic)	Contact manufacturer: Gary Champ (512) 971-9502
	Type "K" Object Markers	Model FG318PE			Bay Area Barricades Concord, CA (925) 686-1089
					Contact: Craig
					Statewide Traffic Safety San Jose, CA (408) 993-9770
Flexi-Guide, FG 300 Series	Type "Q" Object Markers	Model FG324PE	Pexco, LLC Tacoma, WA Local Rep: Jay Ruegner Cell: (408) 431-8689 Office: (253) 284-8000 www.pexco.com/traffic	Base and curb are minimum 5% recycled thermoplastic	Contact Kamau Harper Fairfield, CA (707) 864-9952
					Interstate Traffic Control Product San Carlos, CA (650) 591-2300
					Contact: Mark Dellamonica San Jose, CA (408) 279-4116



SOUND BARRIERS

Recycled Products Available	Caltrans Prequalified Noise Barrier Systems	Company	%Recycled / Material Content	Distributors in Bay Area
Carsonite Sound Barrier (AcoustaShield or soundwall)	Yes	Carsonite Composites Newberry, SC (800) 648-7916 www.carsonite.com	Option to fill shell with recycled scrap tires; 4 pounds of tire per sq. ft.; CA tires can be requested	Sierra Highway Safety Walnut Creek, CA (800) 558-5850 Contact: Bill Thurston

REFLECTIVE GLASS BEADS/SPHERES

Recycled Product	Caltrans Prequalified and Tested Products	Company	% Recycled	Distributors in the Bay Area	Purchasing Resources
Glass Beads/Spheres	Visimax Type II Glass Spheres (State Specification 8040-3885	Potters Industries, Inc. Valley Forge, PA (800) 552-3237 Kingman, AZ (888) 821-2968	State Public Contract Code requires at least 10% postconsumer content	Potters Industries Plants Canby, OR (888) 821-2965	California State contract ID 1-17-80-01A (Type and II) (ends March 3, 2020)

TRAFFIC SIGNS

Recycled Product	Туре	Company	% Recycled	Distributors in the Bay Area	Purchasing Resources/ Information
EcoStrate Sign (Alternative Sign Substrate)	EcoStrate Sign, Model Traffic 025	EcoStrate 1305 Rocky Canyon Road Arlington, TX (646) 715-6894 www.ecostrate.net Contact: Haley Sherga	100% postconsumer recycled content (plastics from electronic products)	Call manufacturer	Caltrans approved list
Signs, Aluminum (Collect, Refurbish, Reuse)	Aluminum Signs, Various types	Zap Manufacturing 12086 Charles Drive Grass Valley, CA (530) 272-8855	Resurface used signs for reuse; recycled content N/A	Call manufacturer (serve CA, NV, AZ)	Used by East Bay public agencies; Zap provides containers for collection; pickup every 3 months

PAVEMENT MARKERS

Recycled Product	Туре	Company	% Recycled	Distributors in the Bay Area	Purchasing Resources/ Information
Ruby Lake Glass	Bike lane, road demarcation	Ruby Lake LLC 493 State Route 28 Richfield Springs, NY (914) 523-3766 Contact: Jonathan Gross	100% recycled glass (television monitors)	D&M Traffic Services Santa Clara, CA (408) 436-1127 Contact: Kevin Cooper Direct: (408) 591- 3108	

