

E-Cycle Washington Standard Plan 2018 Annual Report - workbook format*



The Washington Materials Management & Financing Authority is required to file an annual report with the Washington State Department of Ecology. This workbook contains data and information requested in order to meet compliance with WAC 173-900-800 and additional information required via passage of SHB 1498 in April of 2013. The workbook is designed to provide data and information in the format listed in the index outlined below, as specified in WAC 173-900-800 and as amended with the passage of SHB 1498.

***NOTE:** All figures and data in this report are estimates based on actual source documents including processor invoices with actual weights and charges, collector bills of lading showing estimated weights - converted to actual weights after verification through processor and transporter receipts, based on materials collected in 2018 (some collected in 2018 and processed in 2019) and other information received from collectors and processors including "collector logs" which include source and volume estimates by entity type.

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1. Total weight (in pounds) of covered electronic products (CEPs), including orphans, for the 2018 program year including documentation verifying collection and processing for:
 - a. CEP pounds collected, by type, by county
 - b. CEP recycled pounds, un-recycled residuals, and reused - by ALL program Direct Processors
 - c. Standard Plan CEP materials disposition - mass balance report
 - d. Pounds collected and processed verification - based on paid processor invoices for covered materials
 - e. Final destination(s) for the processing of CEPs and components and final destination(s) for disposal of residuals
2. Total weight of CEPs received from each nonprofit charitable organization primarily engaged in the business of reuse and resale used by the Standard Plan.
3. Total weight estimates of CEPs received in large quantities from small businesses, small governments, charities and school districts.
4. A list of collection services provided in each county and each city with a population of greater than 10,000 and the parties who operated them.
5. Processor information:
 - a. A list of all direct processors used; **(see section 1b.)**.
 - b. The weight of CEPs processed by each direct processor; **(see section 1b.)**.
 - c. A description of the processes and methods used by each direct processor to recycle the CEPs including a description of the processing and facility locations.
 - d. A compliance audit report meeting the requirements in WAC 173-900-365 for each direct processor listed in the Standard Plan.
(Note: Links to these audit reports posted on the Ecology web site are used to meet this requirement)

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6. A list of subcontractors (downstream vendors) used by each direct processor including the facility addresses. **(see section 1.e.)**
7. A brief description of the educational and promotional efforts that were undertaken to inform covered entities about where and how to reuse and recycle their CEPs.
8. Section discontinued - see prior year's reports for historical data. The results of sampling as required in WAC 173-900-900. (sampling discontinued be
9. Total weight of unwanted electronic products, electronic components, and electronics scrap that have been exported from Washington state to countries that are not members of the Organization for Economic Cooperation and Development or the European Union.
10. A list of manufacturers that are participating in the Standard Plan.
11. Documentation of work done with direct processors used by the Standard Plan to promote and encourage the design of electronic products that are less toxic and contain components that are more recyclable. Includes data on historical collected weights and units.
12. Any information available regarding the reuse of CEPs through the E-Cycle Washington program.
13. Processor Closure Plans and Financial Responsibility
14. Program revenue and cost.
15. Signature of the Authority.
16. Supplemental information - WMMFA volume allocation excerpt from Standard Plan.

Washington Materials Management & Financing Authority
CEP* pounds collected by type and by county
E-Cycle Washington annual 2018

Covered Electronic Products (CEP's) collected, including orphan products. All 2018 WMMFA transactions	CEP Pounds collected by type		CEP Pounds collected by County			CEP Pounds collected by County by CEP Type			
	2018 NET pounds by CEP type collected excluding pounds sent to reuse by collectors	Percent of total pounds by CEP type 2018	WA State County	Pounds collected 2018 excluding reuse at the collector level	Percent of total pounds by county 2018	Computers	Monitors	Televisions	TOTAL NET pounds by county - all CEP types
TELEVISIONS			Adams	13,049	0.0%	1,066	1,998	9,985	13,049
Household TV	20,336,322		Asotin	62,912	0.2%	1,001	6,451	55,460	62,912
School District TV	13,884		Benton	495,010	1.9%	49,888	89,592	355,530	495,010
Small Business TV	8,739		Chelan	304,862	1.2%	14,779	30,842	259,241	304,862
Small Government TV	5,499		Clallam	231,228	0.9%	12,750	21,564	196,914	231,228
Total TELEVISIONS	20,364,444	80.4%	Clark	1,779,879	7.4%	164,780	204,599	1,410,500	1,779,879
			Columbia	16,003	0.0%	1,256	2,366	12,381	16,003
			Cowlitz	503,428	2.1%	28,255	76,002	399,171	503,428
			Douglas	52,035	0.2%	687	1,425	49,923	52,035
			Ferry	11,047	0.1%	190	1,108	9,749	11,047
			Franklin	192,264	0.8%	25,020	26,786	140,458	192,264
MONITORS			Garfield	12,583	0.0%	775	1,025	10,783	12,583
Household Monitors	2,744,312		Grant	113,171	0.4%	2,890	14,256	96,025	113,171
School District Monitors	30,906		Grays Harbor	289,785	0.9%	7,924	28,623	253,238	289,785
Small Business Monitors	13,329		Island	410,365	1.5%	48,330	33,115	328,920	410,365
Small Government Monitors	4,949		Jefferson	153,346	0.7%	7,847	14,981	130,518	153,346
Total MONITORS	2,793,496	11.0%	King	7,840,545	31.4%	774,122	1,026,666	6,039,757	7,840,545
			Kitsap	692,437	2.8%	44,776	93,070	554,591	692,437
			Kittitas	153,990	0.7%	4,856	2,871	146,263	153,990
			Klickitat	9,865	0.1%	1,480	821	7,564	9,865
			Lewis	350,316	1.4%	2,971	12,380	334,965	350,316
COMPUTERS (includes laptops)			Lincoln	40,755	0.1%	7,744	2,826	30,185	40,755
Household Computers	2,131,755		Mason	88,957	0.3%	29	7,374	81,554	88,957
School District Computers	29,749		Okanogan	38,770	0.1%	3,546	6,582	28,643	38,770
Small Business Computers	8,753		Pacific	114,895	0.3%	7,343	6,016	101,536	114,895
Small Government Computers	5,422		Pend Oreille	35,245	0.1%	3,826	3,345	28,074	35,245
Total COMPUTERS	2,175,679	8.6%	Pierce	2,615,572	11.6%	272,986	298,409	2,044,177	2,615,572
			San Juan	65,724	0.2%	5,979	5,670	54,075	65,724
			Skagit	372,814	1.3%	10,584	15,394	346,836	372,814
			Skamania	65,549	0.2%	3,509	2,312	59,728	65,549
			Snohomish	3,384,405	12.7%	295,136	269,540	2,819,729	3,384,405
			Spokane	1,455,502	6.0%	146,828	163,823	1,144,851	1,455,502
			Stevens	110,474	0.3%	4,749	10,390	95,335	110,474
			Thurston	1,173,852	4.8%	70,602	111,013	992,237	1,173,852
			Wahkiakum	0	0.0%	0	0	0	0
			Walla Walla	282,818	1.1%	27,944	39,411	215,463	282,818
			Whatcom	832,262	3.2%	42,922	64,557	724,783	832,262
			Whitman	148,367	0.6%	11,737	19,328	117,301	148,367
			Yakima	819,538	2.0%	64,570	76,965	678,003	819,538
TOTAL POUNDS CEP's / TYPE ---->	25,333,619	100%		25,333,619	100.0%	2,175,679	2,793,496	20,364,444	25,333,619

**Covered electronic products (CEP's)
collected and sent to each approved
processor. All 2018 WMMFA
transactions by all processors.**

ACE METAL COMPANY

ECS REFINING

ELECTRONIC REC INT (ERI)

E-WASTE LLC

EWC GROUP

SIMON METALS - TACOMA

SIMON METALS - VANCOUVER

Universal Recycling Technologies URT

TOTAL POUNDS - ALL PROCESSORS

All quantities in net pounds- based on accruals of collections in 2018

CEP program pounds sent to, and COLLECTED by, each processor in total

CEP pounds RECYCLED by each processor and on hand awaiting processing

*CEP pounds processor sent to REUSE through refurbishment or re-sale

NON-RECYCLED residuals including wood, etc. (details in sec. 1.c.)

TOTAL pounds recycled, reused, and in process

Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	
5,090,379	572,007	43,163	3,587,552	3,713,361	7,301,697	4,320,845	704,615	25,333,619	
SUMMARY Breakout of Re-used, Recycled, and Non-recycled Materials by Processor									Percent
4,570,775	549,662	38,939	3,547,252	3,713,361	7,186,333	4,200,459	680,416	24,487,197	96.66%
0	0	0	0	0	0	0	0	0	0.00%
519,604	22,345	4,224	40,300	0	115,364	120,386	24,199	846,422	3.34%
5,090,379	572,007	43,163	3,587,552	3,713,361	7,301,697	4,320,845	704,615	25,333,619	100.0%

WMMFA processors CEP mass balance report - required per SHB 1498 eff: July 28, 2013

Plan Year : 2018 Total of all processors under contract with the WMMFA

INBOUND: total plan pounds 2018 calendar year	Computers	Laptops	E-Readers	E-Tablets	Monitors	Televisions	OTHER (non-covered)	TOTAL
	A	B	C	D	E	F	G	sum A-G
TOTAL PLAN pounds collected ----->	2,024,257	151,422	negligible	negligible	2,793,496	20,364,444	negligible	25,333,619

OUTBOUND: at Dec. 31 2018 for calendar year 2018

Pounds by commodity type:

RECOVERED / RECYCLED / IN PROCESS

CRT GLASS	10,775,530
CIRCUIT BOARDS	1,374,074
BATTERIES	5,585
MERCURY LAMPS (based on actual and estimated weights of CCFLs in flat panel devices)	5,365
PLASTIC	4,366,081
METALS	5,766,821
WOOD (biomass fuel, mulch, landscaping fill)	460,838
CEP's in storage awaiting processing	743,517
CEP's in transit awaiting downstream processing	989,386
TOTAL RECOVERED / RECYCLED/ IN PROCESS:	24,487,197

REUSED

COMPUTERS - (Desktop or integrated units)	
LAPTOPS	
TELEVISIONS	
MONITORS	
PARTS - SWAPPED OUT TO WORKING UNIT	
OTHER: _____	
TOTAL REUSED:	0

UNRECYCLED RESIDUAL (to landfill)

WOOD	523,964
NON-RECYCLABLE PLASTIC	14,502
OTHER: Broken mirror from DLP and Projection TV	307,956
TOTAL RESIDUAL:	846,422

TOTAL RECOVERED, RECYCLED, REUSED, RESIDUAL:	25,333,619
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SECTION 1 MASS BALANCE REPORTING:

NOTE: Total INBOUND pounds must equal total OUTBOUND / IN PROCESS pounds

Covered Electronic Products (CEP's) collected for recycling by the WMMFA in 2018 from non-profit charitable organizations primarily engaged in re-use through re-sale.

All net pounds collected and paid for in 2018 - total - weights verified at processing

Does NOT include pounds of working or refurbished devices a charity collected as part of the program and sent to reuse (see section 12 for reuse estimates at collector level)

Charity Name	CEP Pounds
ADAMS COUNTY DEVELOP DISABILITIES	9,313
ANACORTES AKTION CLUB	54,757
ARC OF SW WASHINGTON	3,155
DESERET INDUSTRIES - SHORELINE	83,383
DESERET INDUSTRIES - FEDERAL WAY	123,132
GOODWILL EVERETT (Seattle Goodwill)	2,427,131
GOODWILL HAWKS PRAIRIE TACOMA HOGUM BAY ROAD (Tacoma Goodwill)	526,682
GOODWILL MULLEN LANDFILL TACOMA (Tacoma Goodwill)	315,107
GOODWILL PASCO	639,650
GOODWILL SEATTLE (Seattle Goodwill)	2,092,429
GOODWILL SPOKANE	1,324,049
GOODWILL TACOMA (Tacoma Goodwill)	3,953,475
GOODWILL VANCOUVER	1,028,242
GOODWILL WENATCHEE	111,250
INTERCONNECTION.ORG	382,551
NORTHWEST CENTER INDUSTRY	88,639
SALVATION ARMY ABERDEEN	5,049
SALVATION ARMY ARC SEATTLE	144,040
SALVATION ARMY BELLINGHAM	12,295
SALVATION ARMY SPOKANE VALLEY	57,484
SALVATION ARMY WENATCHEE	71,986
SALVATION ARMY YAKIMA	58,497
ST.VINCENT DE PAUL - BREMERTON	49,945
ST.VINCENT DE PAUL - EVERETT	28,524
ST.VINCENT DE PAUL - KENMORE	37,180
ST.VINCENT DE PAUL - LYNNWOOD	3,399
ST.VINCENT DE PAUL - SEATTLE	34,364
ST.VINCENT DE PAUL - TACOMA	85,468
ST.VINCENT DE PAUL - MONROE	43,992
STANWOOD CAMANO KIWANIS - STANWOOD	33,179
SUNNYSIDE CHRISTIAN THRIFT STORE	24,085
UNION GOSPEL MISSION - YAKIMA	33,587
VISITING NURSES THRIFT - CHEHALIS	102,946
YWCA STORE - WENATCHEE	9,633
Total Pounds collected for recycling after deducting reuse pounds:	13,998,598

Total pounds received in large quantities from entities other than households - 2018

Large quantities are defined as any drop off, pick up, or event where the entity provided approximately 1 pallet or more CEP's

This is a complete listing of all "covered entities" that utilized E-Cycle Washington since start up. Many of them submit items on an on-going basis.

CEP TYPE	Qty in Lbs. 2018 Total	Schools and School Districts generating large quantities		Small governments, charities (other than charities registered as collectors) , small business, and events		
		SCHOOL DISTRICTS		EVENTS	MISCELLANEOUS COVERED ENTITIES	
TELEVISIONS		Anacortes	Ocasta	E-1st Security Bank - Bothell	Aboda	Accent on Coims
		Arlington	Orcas	E-1st Security Bank - Capitol Hill	Seattle Rubbish Removal (SRR)	Cascade Precision
School District	13,884	Auburn	Orcas Island	E-1st Security Bank - Edmonds	3D Systems	Christ Fellowship
Small Business	8,739	Bainbridge	Overlake	E-1st Security Bank - Lynnwood	5th Avenue Theater	COB
Small Gov.	5,499	Bellevue	Pasco	E-1st Security Bank - Poulsbo	7 Hills Camp	Computer Remedies
Total TELEVISIONS	28,122	Bellingham	Pe Ell	E-1st Security Bank - Puyallup	A&G	Dynamic Data
		Bellinham Christian	Peninsula	E-1st Security Bank - Redmond	AA - Its	GTS Distribution
		Bethel	Port Angles	E-24 Hour Fitness	AAA	Interfor Cedarprime, Inc
		Blain	Pullman	E-ABAM Building - Federal Way	AAA Auto Wrecking	Johnson International
MONITORS		Burlington	Puyallup	E-Active Voice Bldg	Aarons	Juanita Community Church
		Burlington - Edison	Quincy	E-Adobe	Aboda Property Management	Key Bank
School Dist	30,906	Camas	Renton	E-Alexis Hotel	Accepting LLC	Korry Electronics
Small Business	13,329	Cascade	Richland	E-Ballard Church	Accuduct	LCR
Small Gov.	4,949	Castle Rock	Ridgefield	E-BECU Everett	Accurate Insights	LCS Network Consultants
Total MONITORS	49,184	Central Kitsa[Rochester	E-BECU Everett	Accurate Mfg.	LD
		Chewelah	Sedro Woolley	E-BECU Federal Way	Achtunina	LDC
		Christian	Selah	E-BECU Federal Way	Adam & Dinkin	Lente RV Repair
		Colfax	Sequim	E-BECU Tukwila	Adesa Seattle	LFS Inc
		Colton	Snohomish	E-BECU Tukwila	Adopt A Road	Lighthouse Mission
COMPUTERS		Concrete	South Widbey	E-Bellevue Church of Christ	Advanced Labels NW	Living Green Tech
		Dayton	Stanwood Camano	E-Bentall Kennedy - Summit REIT	Aecopetla Apts	Living Hope Church
School District	29,749	Eastmone	Stevenson Carson	E-Bingen Community Pride	Agrimax Intl	Lloyd's Electronics
Small Business	8,753	Edmonds	Tacoma	E-Bingen Community Pride	AHHS	LRA
Small Gov.	5,422	Epihany	Tahoma	E-Boeing - Auburn	AHHS Housing	Luminterra
Total COMPUTERS	43,924	Everett	Toppenish	E-Boeing Airport Way	Aircraft Cabin Sys	LWS
		Evergreen	Toutle	E-Boeing DC - EWC Event	Alaska Maritime	Lynden Door Inc
121,230		Ferndale	Vashon	E-Boeing Developmental Center	Alderwood Safe Storage	M&M Solutions
(NOT including pounds sent to re-use)		Fife	Vashon Island	E-Boeing Duamish	Alderwood Water & Wastewater	Madrona Dental Care
		Franklin Pierce	Waitsburg	E-Boeing Fredrickson	All New Glass	Mag Hifi
		Granite Falls	Wapata	E-Boeing Georgetown	All Tech	Magic Carpet Auto Transport

	Granger	Woodland	E-Boeing Safety Day - EWC Event	Alpha Tech	Maverick Label
SMALL GOVERNMENT	Highline	Yelm Community	E-Bothell United Methodist	Alrite	Max Tech
CITIES	Hoquim	University Place	E-Boy Scouts of America #221	Altran	May Valley Council
Algona	Icolph	Kelso	E-Bridal Show - Tacoma Dome	Always Affordable	MBPP
Anacortes	Issaquah	Kent	E-Broadview United Church-Sea	AMACS	MBS Property
Arlington	Kelso	LA Conner	E-CAC Real Estate Mgmt	American Building	McKinley
Bothell	Kent	Lake Stevens	E-CAC Real Estate Mgmt-Plaza	Ames International	MCR
Burien	La Conner	Lakota	E-CAC Real Estate Mgmt-Plaza E.	Angels	MEA
Carnation	Lake Stevens	Lake Washington	E-CAC Real Estate Mgmt-US Bank	Architextures	Meda List
Duvall	Lakota	Lake Wood	E-Capital Mall Olympia	Argosy Cruises	Megapath Inc.
Edmonds	Lake Washington	Longview	E-CB Richard Ellis - Atrium Bldg	Arlington Adventist Church	Mehrer Drywall
Enumclaw	Lake Wood	Lopez Island	E-CB Richard Ellis - Symetra Fin.	Arlington Dry Kilns	Memorial Community Church
Everett	Longview	Yelm Community	E-CB Richard Ellis - Symetra Fin.	Asepticco Inc	Men's Health Housing
Everson	Lopez Island	University Place	E-CB Richard Ellis-One Bellevue	Asphalt Patch Systems	MFD
Federal Way	Lynden	Steilacoom	E-Christ the King Luthern Church	Assistance League	MGM Solutions
Granite Falls	SCHOOLS		E-Christan Ministries-Shoreline	Auburn Oxford	Micro R12
Kent	Arlington High School	Mukilteo	E-City of Arlington	Auburn Valley Group	Microloans NW
Lynden	Bellingham Tech	Nooksack Middle	E-City of Bingen	Auburn Work Crew	Midway Plywood
Lynnwood	Burlington School	NW Indian College	E-City of Bothell -Seattle Times	Audio Control	Miller Laine Properties
Mukilteo	Canyon Creek Elem	NW University	E-City of Duvall	B of A	Minuteman Press
North Bend	Carl Samburg Elem	Penny Creek Elem	E-City of Enumclaw	Bainbridge Rotary Club	Modern Digital
Randle	Carriage Crest Elem	Pioneer High	E-City of Federal Way	Ballard Tech	Moe Made Inc
Snoqualmie	Cascadia Montessori	Seattle Pacific University	E-City of Granite Falls	BAN	Moldrite
Sammamish	Cathcart Elem	Seattle Prep School	E-City of North Bend	Bargain Town	Moore Hotel
Sea - Tac	Cavalero Middle	Seattle University	E-City of Puyallup	BDAP	Moose Steel
Tukwila	Cedar Heights Middle	Silver First Elem	E-City of Randle	Beach Dr Shores	Moto Plex
Issaquah	Charter College	Skagit Valley College	E-City of Sammamish	Beacon Pub	Mountain Coin
Seattle	Chrysalis School	Snohom. Dutch Hill Elem	E-City of SeaTac	Bele Com	Mountain Pacific Bank
COUNTIES	Discovery Elem	Spokane Public School	E-City of Snoqualmie	Bellegrove	Mr Fix - it
Chelan	Edmonds Comm College	St Francis School	E-City of Tukwila	Bellevue Dwntwn Assoc.	MTR
Clallam	Federal Way Co-Op Pre	St George School	E-City of Winlock	Berry Enterprises	Mukilteo Water
Columbia	Federal Way Public	St Louise School	E-City Recycling	Berry Plastics	Mukleshoot Indian Tribe
Douglas	Glazier Park Elem	St Luis School	E-Clise Properties - Active Voice	Bham Yacht Club	Murray Kahn
Kittitas	Glen Ridge Elem	St Martin University	E-Clise Properties - Denny Bldg	Big Brother Big Sister	N.W. Kidney
Lewis	Granite Falls High	St Mary Magdelan School	E-Clise Properties - Securities Bldg	Big Change	NCGTKC Churh
Yakima	Holy Rosary School	St. Alphinsus School	E-Clise Properties - Sixth & Lenora	BIP	Nooksack Indian Tribe
	Inglemore High	Starlake Elem	E-CMC Icos Biologics	Birdson AFH	North Bham Group Church
	Kenmore Jr High	Sumner H.S.	E-Columbia Center	Blackpoint IT	North Shore Senior Center
	Liberty High	Sunrise Elem	E-Crista Ministries	Blucap Fit	North Wastrom Fire & R

Lindberg High	Tekoa Grade School	E-Denny Building	BN Building	Northshore Christian
Lynden Christian	Tillicum Middle	E-Earth Day - Green Depot TR	BNG Properties	Northshore Endo
Lynden Middle	University of Avionics	E-Edmonds Lutheran Church	Bobs Heating	Northshore Sheet Metal
Meadow Glade Elem	University of WA - Bothell	E-Emulex	Boeing employees day	Northwest Castors
Monroe High	University of WA - Seattle	E-Everett Financial Center	Boilermaster	Northwest Regional Council
Monte Cristo Elem	WA School for the Blind	E-Evergreen Christian Fellowship	Borgard Consulting	NPC
Mountain Way Elem	Woodmoor Elem	E-Ewaste LLC Sand Point Metro	Bowles Manuf	NSA Church
Mt Baker High	Zion Academy	E-Fauntleroy United Church	Boys & Girls Club	NSS
		E-FCA Soccer - Snapdoodle Toys	BP Church	NSWW
		E-Federal Way - Pavillions	Bralco Metals	NW CENTER
		E-Federal Way - City Recycling	Broadmoor Golf Club	NW Control Sys
		E-Fire District 27	Brownlie Evans	NW Family Church
		E-Fruit Valley Neighborhood Assoc	Browns Electronic	NW Grating
		E-Gettney Island	BRP Seattle	NW Home Improvements
		E-Grocery Outlet - Lynnwood	Brunswick Lanes	NW Kidney Ctr
		E-GVA Kidder Mathews	Building Blocks	NW Labors
		E-Hat Island Fire	Building Changes	NW Tax Specialists
		E-Highland Gated Community	C&R Electric	NW Territorial Mint
		E-Intel Farmers Market	CAD-Based Solution	NW Vision
		E-Jackson Federal Bldg - Seattle	Campbell, Dille & Smith	Oakwood World Wide
		E-JSH Properties - 1000 Denny	Camwood Counseling Serv	OHL
		E-JSH Properties - 1st & Stewart	Canyon Lumber Co.	Orkin Pest Control
		E-JSH Properties - Market Place	CAPS	Our Lady of the Lake
		E-JSH Properties - Waterfront	Car Toys	Outlet Collections
		E-Kelly PTSA	Carillon Properties	P.A.W.S.
		E-Key Bank - Auburn	Carpinito Brothers	P.S. Removal
		E-Kirkland Congregational Church	Cascade Computer	Pace Staffing
		E-Kirkland United Church of Christ	Cascade Vista	Pacific Building
		E-Klahanie Homeowners Comm- Iss	Cascade Yarns	Pacific Surrey
		E-Lake Stevens Round-up	Cascadia Dentristy	Pacific Underwriters
		E-Landon-Susan Ins Agency	Cast Cutter	Packay Inc.
		E-Lewis County Solid Waste	CD Services	Paradise Lakes
		E-LK. Stevens - Spring Cleaning Day	CDL Recycling	Parkway
		E-Lynnwood Top Foods	CDR	Parkway Apts
		E-Magnolia Church	Cedarstrand Rentals	Pavi Davis Restoration
		E-Magnolia United Church- Seattle	Centers Collision	PC Management
		E-McClain Insurance	Central Area Youth	Peckay
		E-McDonald McGarry Insurance	Ceva	Perey Law
		E-Mercer Island Church of Christ	CH Technologies	Performance PT
		E-Mercer Island Olympic TR	Charles Wright Academy	Perk Shore

E-Mercer Island SBK Event	Chelan Café	Permec-bilt
E-Mercer Island Wandermer	Childrens Home Society	Pete's Auto Repair
E-Metropolitan Market	Childrens School of Excellence	Petrocon
E-Metropolitan Market - Kirkland	Childrens Therapy Center	PHG
E-Metropolitan Market - Queen A	Chimney Techniques	Philips Laurel Health Care
E-Metropolitan Market - Sand Pt	Christian Faith Center	Philips Ultrasound
E-Metropolitan Market West Sea	CHS Cenex	Pier Systems
E-Mukilteo YMCA	CHS Inc.	Pinnacle Electric
E-Neighborhood Rec-Klahanie	City of Seattle ILL DUMP P	PLC Multipoint
E-Neighborhood Rec-Shoreline	Clark Co Skill Center	Plymouth Housing
E-New & Again Thrift Shop	Clearwater Spa	Plywood Supply
E-Newcastle Earth Day	Closet Factory	Plywood Supply
E-North Bend	CMC Biologics	PMT Solutions
E-North Help Line - Food Bank	CMC ICOS Biologics	PNCC
E-Olympic Environmental	CMIT of Everett	PNL
E-Pacific Power Batteries	CMIT Solutions	PNTA
E-Pacific Power Batteries-Safeway	CMMS	Port of Everett
E-Packwood collection event	Cogdill Nichols Law	Powell Development
E-Parkside Neighborhood Assoc	Columbia City	Precision Engines
E-Philips Healthcare - Bothell	Community Food Co-Op	Precision Graphics
E-Philips Oral Healthcare	Community Psychiatric Clinic	Precision Iron Works
E-Precor	Community Transit	Premier Storage
E-Prince Of Peach Luthern Church	Compass Health	Prestige Care of Tacoma
E-Puget Sound Energy - Tacoma	Computer Concept	Print & Copy Factory
E-Puget Sound Energy - Bothell	Computer For Kids	Printing Plus
E-Puget Sound Energy - Summit	Computer Referrals	Pro Realty
E-Quadrant Park I-5 Corp	Computer Rentals	Protingent
E-Quincy Valley Lions Club	Computer Tooter	Providence
E-Ranier Community Center	Computer's For Kids	PRS Group
E-Redeemers Luthern Church	ConAgra Brands	PSBC
E-Regence Blue Shield	Consolidated	PSF Mechanical
E-Sammamish Young Life/Discov	Construction Group Int.	PSM LLC
E-Sandpoint Metropolitan Market	Continental Village Apts	PYI Inc
E-Sammamish Round-up	Core Furniture	Quality Moving
E-Schnitzer West	Corliss Resources	Radiant Technology
E-Securities Bank of Washington	Coyote Guns	Radio Frame Network
E-Securities Bldg	CR Janitorial	Rama Foundation
E-Shoreline CC	CREAM Computer Don.	Rane Corp.
E-SnoCo Together	Creative Workspace	RC Enterprises
E-Snoqualmie Ridge Homeowners	Creed Technology	RCA
E-Snoqualmie Tribe	Creekside Church	Red Point Structure

E-SolarFest	Crista Ministries	Redmond Ridge Golf
E-St Johns Episcopal Ch-Kirkland	Crown Film	Regal Entertainment
E-St Johns Medical Center	CSC	Reliable Man Cleaning
E-St Stephen the Martyr-Renton	CSMI	Restore of WA
E-St. George Parish	CTK Bellingham	Ride Motorsports
E-St. Gobain Containers	Cully Inc	Rife Care
E-St. Mark's Cathedral	Cutting Edge D.	River of Life
E-Stock Pot	CVA Apartments	River of Life Fellowship
E-Stoel Rives Law Firm	D Square Energy	Rodda Paint
E-Tacoma Mall Office	D&G Insulation	Rolls Royce - N. Amer.
E-Tukwila Financial Center	Day & Nite	Ronald McDonald House
E-United Church of Christ	Deau's Photography	Ross Display
E-US Postal Service - Everett	DeCacro & Roberts	RPNN
E-Valley View Silver Crest	Deeny Construction	Run Studios
E-Value Village	Dialup USA Inc	Rural Metro
E-Vashon Island collection event	DOJ	S View Metro Parks
E-Watson Furniture	Dr Hutton	S&R Unlimited
E-Whole Foods	Dump It	Sadis Filmworks
E-Windermere - West Sound	Dynamic Language	SAK
E-Windermere Bellevue	E3RA	Samish Tribe
E-Windermere Everett	Eagle Storage	Sand Point Country Club
E-Windermere Madison Park	Eastside Carstar	SANG
E-Windermere Mercer Island	Eastside Foursquare Church	Sasco Electric
E-Windermere Redmond	Eastside Prep	Sea Pac Homes
E-Windermere Woodinville	ECA	Seattle Cancer Care Alliance
E-Woodinville Alliance Church	ECAC	Seattle Children's Museum
E-Woodland Park Zoo	ECAMP.LLC.	Seattle Computers
E-Work Force Dev Center-Mukilteo	Eco Movers	Seattle Gameworks
E-Wright Runstad	Ecova	Seattle Housing Authority
E-Yacolt Clean-up Event	ECS	Seattle Paint Supply
E-YMCA	EDASC	Second Hand Hewitt
E-Young Life	Edmonds Community College	Selway Machine
	EFR	Senior Serv of Snohomish
	Elcon	Service Alternatives
	Element	Shaq
	Elliott Bay Book Co	Signature AV
	Embassy Suites	Silvermark Insurance
	Emerald City Pizza	Silvertips
	Emerald City Tech	Silverty IT
	EMP	Single Source
	Empower Up	Site Specific Services
	Engineering Development	Skagit PUD #1

Engineering Solutions	SLC
Entrance Controls	Smart Run Sys Inc
ER Enterprize	Smith Cooper NW
ETI	Smith Gardens
Everett DT Storage	Snap Fitness
Everett Golf and Country Club	Snohomish County PUD
Everett Housing Authority	Snohomish County Red Crss
Everett Silvertips	Snohomish Fire Distric 1st
Everett Steel	Snohomish Health District
Evergreen Pet Supply	Snyder Law Firm
Every Day Fitness	Soccer West
Express Furniture	Soho Computer Svcs
F That Junk	Soltech
Faith Christian Fellowship	Sonoma Villero Condos
FCI	Sound Christian Fellowship
Federal Way Public Schools	Sound Light
Ferndale Redi-Mix	Sound Mental Health
FFF Inc	Sound Prescriptions LLC
Finishing Touch	South Coast In Homes
First Due Movers	South County Hauling
Fisher's Creek Neighbor Ass.	SPD
Fleet Pride	Specialty Coin
Flying Food	Speet Rum Sign
Focus North America	Spruce Hotel
Focus the Nation	St. Vincent De Paul
Forest Concepts	Stafford Press
Formost Fuji	Staiger Roofing
Foss Care	Star of the Sea
Foundation Bank	State Roofing
Fred Hutch Research Center	Steamworks
Friendly Village	Stevens Pass
FSGS Service	Stevenson Advertising
Furhaven	STG Presents
Future of Flight Foundation	Strategic Consulting
FWUMC	Sudden Valley
G3 Develop	SUMC
GBA	Summit @ Snoqualmie
Gesanko Chocolate	Summit Rett
Gesney Auto	Sumtech Group
Giffin Tech	Sundview
Git R Dumped	Sunrise Services
Gless LLC	Supply Tech
Global Tech Plastics	Supply Technologies

GMS Architect Group	Swinerton Bldr
Gold Finch	Synsor Corporation
Golden Dolphin	Tacoma Nursing & Rehab
Goldsmith & Assoc	Team Tahoma
Got Junk	Tech 1
GRD	Tech Help
Greenpoint Tech	Tech Screen
GT Fed Wan	Technical Advantage Inc.
Guidant Financial	Tedesco
Habitat For Humanity	Teen Challenge
Halmark Appraisel	Tel Data Systems
Hampton Inn & Suites	Terra Dynamic
Happy Hauler	Tex Green
Harbor Pointe Gold	The Bank of Washington
Harris Electric, Inc.	The City Church
Harsch	The Truss Co.
Heart & Home	Thryers Refrigeration
Helping Hands	Timberland Bank
Hewitt Secondhand	Tippro Inc
HH Housing	Torah Day School of Seattle
Hillside Church	Totem Lake Motel
Hirt's Truck, Scrap & Rec.	Town Place Suites
HKP Architechs	TPS Service
Hoet	TRAXX
Holiday Group	Trilogy International
Holland Transfer	Trinity Lutheran Church
Home RX	Triumph Structures
Honey Cap Mortgage	Truck Shop
Honeycutt Manufacturing	TURBRO
Hopelink	TWH Enterprises
Hubers Custom Building	Tyco IS
Husky Truck	UGM
Hydraulic Industries	UHI
Icicle	Uniback
IDL	Universal Frieght Forwalder
IDL Precision	UR Stenson
IMI - Precision	US Transmission
Ind'I Coating & Sealants	USPS
Inspur USA	Valley Buick GME
Intava	Valley Place
Intellect	Valmont / WCE
Interfaith Church	Vanderly & Co

IS Tech LLC	Vashon Tech Support
ISO Media	Vector Ind
Itek Energy	Vesta Properties
Jane Way Apts	Visno Vipro
JC Enterprises Constr.	Vuetura
JIT Mfg Inc	W.C.R.
JMC Cabinets	W/B Housing
John Buchan Homes	Wareware
John L. Scott	Washington Cathedral
Johnson & Shute	Waste Management
JSI	Watertown Hotel
Jubilee Reach	WBS
Junk B Gone	WCDC
Junk Boys	Werner O-Meara & Co
Junk King	Wesco
Just Junk It	Wesiot Tech
K.I.C.R.	Wesley Homes
Kaman Eng	West Wind Motel
KCAS	Westek
KDH	Western Engineering
Keep It Clean Rec	Whatcom Counseling
Kelly Insurance	Whatcom Hire
Kent Nazarene	Whatcom Humane Society
Kern's Funeral Home	White Glove Junk Removal
Ketchikau	Wildcard Games
Key Maintenance	Willow Technology
King Co E-911 Program	Windermere
King Co Parks	Windermere Real Estate
King County Flood Relief	Wipliance
King County Housing Auth-Sea	Workforce Snohomish
King County Library	World Affairs
King Machine LLC	World Vision
Kirkland Cinemas LLC	Worldmark - Camlin
Kirkland RV	WRC
KLB Construction	Wrecking Ball
Koomo Con	WSGA
Kulshan Vet Hospital	WSWW
M Torres America	XCS
Promium, LLC	XKL LLC
Sherwood Com Svcs	Xpertise Computer Solutions
Tim's Cascade Snacks	YMCA
VCA SnoWood AH	Youth Care
	YWCA Seattle

WMMFA Ecycle registered WA Collection sites throughout 2018

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
1	Experience Merchandise Thrift Store	Adams County Developmental Disabilities	EPR00547	Adams
2	CEP Recycle Asotin County	HHH	EPR00471	Asotin
3	Clayton-Ward Company Kennewick	Clayton-Ward Company	EPR00526	Benton
4	Clayton-Ward Company Richland	Clayton-Ward Company	EPR00526	Benton
5	Goodwill 7-11 Donation Center	Goodwill Industries of the Columbia	EPR00871	Benton
6	Goodwill Albertsons Donation Center	Goodwill Industries of the Columbia	EPR00871	Benton
7	Goodwill Columbia Center Mall Donation Center	Goodwill Industries of the Columbia	EPR00871	Benton
8	Goodwill East Kennewick	Goodwill Industries of the Columbia	EPR00871	Benton
9	Goodwill Flower Farm	Goodwill Industries of the Columbia	EPR00871	Benton
10	Goodwill Fred Meyer Donation Center	Goodwill Industries of the Columbia	EPR00871	Benton
11	Goodwill Kennewick Store	Goodwill Industries of the Columbia	EPR00871	Benton
12	Goodwill Plaza Donation Center	Goodwill Industries of the Columbia	EPR00871	Benton
13	Goodwill Richland	Goodwill Industries of the Columbia	EPR00871	Benton
14	Horn Rapids Sanitary Landfill	City of Richland - Landfill	EPR00490	Benton
15	Stay Tan West	Stay Tan West	EPR00542	Benton
16	City of Chelan Recycle Center	City of Chelan	EPR00514	Chelan
17	Goodwill Wenatchee Store	Goodwill Industries of the Columbia	EPR00871	Chelan
18	Pacific Power Batteries Wenatchee	Pacific Power Batteries	EPR00967	Chelan
19	Salvation Army Wenatchee	The Salvation Army Seattle DHQ	EPR00470	Chelan
20	Ywca Store	YWCA NCW	EPR01064	Chelan
21	Goodwill Port Angeles Store	Goodwill of the Olympics and Rainier Region	EPR00290	Clallam
22	Goodwill Sequim Store	Goodwill of the Olympics and Rainier Region	EPR00290	Clallam
23	Born Alliance	Born Alliance	EPR01210	Clark
24	Central Transfer and Recycling Center	Columbia Resource Company	EPR00754	Clark
25	Goodwill - 205 and Mill Plain Donation Center	Columbia Willamette Goodwill	EPR00343	Clark
26	Goodwill 38th and Main	Columbia Willamette Goodwill	EPR00343	Clark
27	Goodwill Andresen Marketplace Express	Columbia Willamette Goodwill	EPR00343	Clark
28	Goodwill Battleground Store	Columbia Willamette Goodwill	EPR00343	Clark
29	Goodwill Fishers Landing Store	Columbia Willamette Goodwill	EPR00343	Clark
30	Goodwill Hazel Dell Store	Columbia Willamette Goodwill	EPR00343	Clark
31	Goodwill Northgate Shopping Center	Columbia Willamette Goodwill	EPR00343	Clark
32	Goodwill Salmon Creek Store	Columbia Willamette Goodwill	EPR00343	Clark
33	Goodwill The Glen	Columbia Willamette Goodwill	EPR00343	Clark
34	Goodwill Vancouver Outlet	Columbia Willamette Goodwill	EPR00343	Clark
35	Goodwill Vancouver Store	Columbia Willamette Goodwill	EPR00343	Clark
36	Goodwill Washougal Donation Center	Columbia Willamette Goodwill	EPR00343	Clark
37	The Arc of Southwest Washington	Arc of Southwest Washington	EPR01138	Clark
38	Washougal Transfer Station	Columbia Resource Company	EPR00754	Clark
39	West Vancouver Materials Recovery Center	Columbia Resource Company	EPR00754	Clark
40	Columbia County Transfer Station	Columbia County Public Works	EPR01028	Columbia
41	Goodwill Longview Store	Goodwill of the Olympics and Rainier Region	EPR00290	Cowlitz

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
42	Waste Control Recycling	Waste Control Recycling	EPR00443	Cowlitz
43	Goodwill East Wenatchee Store	Inland Northwest Goodwill	EPR00334	Douglas
44	Inchelium Community Center	Colville Confederated Tribes	EPR00578	Ferry
45	Keller Community Center	Colville Confederated Tribes	EPR00578	Ferry
46	Torboy Transfer Station	Ferry County Waste Management	EPR00487	Ferry
47	Goodwill Pasco Outlet	Goodwill Industries of the Columbia	EPR00871	Franklin
48	Goodwill Pasco Road 68	Goodwill Industries of the Columbia	EPR00871	Franklin
49	Goodwill Pasco Store	Goodwill Industries of the Columbia	EPR00871	Franklin
50	Tommy's Steel & Salvage	Tommy's Steel & Salvage	EPR00519	Franklin
51	CEP Recycle Garfield County	HHH	EPR00471	Garfield
52	CDSI Transfer & Recycle	Consolidated Disposal Service, Inc.	EPR00279	Grant
53	Consolidated Disposal Service	Consolidated Disposal Service, Inc.	EPR00279	Grant
54	Goodwill Moses Lake Store	Inland Northwest Goodwill	EPR00334	Grant
55	Goodwill Aberdeen Store	Goodwill of the Olympics and Rainier Region	EPR00290	Grays Harbor
56	Pay More Recycle and Salvage Inc. Aberdeen	Pay More Recycle and Salvage	EPR01202	Grays Harbor
57	Salvation Army Aberdeen	The Salvation Army Seattle DHQ	EPR00470	Grays Harbor
58	Waste Connections Inc dba Aberdeen Sanitation	Waste Connections Inc dba Aberdeen Sanit	EPR00522	Grays Harbor
59	Camano Island Transfer Station & Recycle Park	Island County Public Works SW Division	EPR00530	Island
60	Coupeville Island Recycling	Island Recycling	EPR00517	Island
61	Freeland Island Recycling	Island Recycling	EPR00517	Island
62	North Whidbey Drop Box Station	Island County Public Works SW Division	EPR00530	Island
63	Goodwill Port Townsend Store	Goodwill of the Olympics and Rainier Region	EPR00290	Jefferson
64	The Recycle Center	Skookum Environmental Service	EPR00267	Jefferson
65	3R Technology	3R Technology	EPR00370	King
66	Busby Junk Removal	Busby Junk Removal, LLC	EPR00466	King
67	Deseret Industries - Federal Way	Deseret Industries	EPR00546	King
68	Deseret Industries - Shoreline	Deseret Industries	EPR00546	King
69	EcoLights Northwest	Total Reclaim, Inc.	EPR00544	King
70	Enumclaw Recyclers	Enumclaw Recyclers	EPR00834	King
71	E-Recycle Mercer Island Site	E-Recycle	EPR00774	King
72	EWC Group, Inc	EWC Group, Inc	EPR00472	King
73	Friendly Earth International Inc.	Friendly Earth International	EPR00824	King
74	Goodwill Auburn Store	Goodwill of the Olympics and Rainier Region	EPR00290	King
75	Goodwill Ballard Donation Center	Seattle Goodwill	EPR00310	King
76	Goodwill Ballard Store	Seattle Goodwill	EPR00310	King
77	Goodwill Burien Store	Seattle Goodwill	EPR00310	King
78	Goodwill Capitol Hill	Seattle Goodwill	EPR00310	King
79	Goodwill Des Moines Store	Goodwill of the Olympics and Rainier Region	EPR00290	King
80	Goodwill Federal Way Store	Goodwill of the Olympics and Rainier Region	EPR00290	King
81	Goodwill Greenwood Donation Center	Seattle Goodwill	EPR00310	King
82	Goodwill Interbay Donation Center @ Whole Foods	Seattle Goodwill	EPR00310	King
83	Goodwill Issaquah Donation Center	Seattle Goodwill	EPR00310	King
84	Goodwill Juanita Store	Seattle Goodwill	EPR00310	King
85	Goodwill Kent Outlet Store	Goodwill of the Olympics and Rainier Region	EPR00290	King

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
86	Goodwill Kent Store	Goodwill of the Olympics and Rainier Region	EPR00290	King
87	Goodwill Maple Valley Store	Goodwill of the Olympics and Rainier Region	EPR00290	King
88	Goodwill Northgate Donation Center	Seattle Goodwill	EPR00310	King
89	Goodwill Ravenna Donation Center	Seattle Goodwill	EPR00310	King
90	Goodwill Redmond (Bellevue) Store	Seattle Goodwill	EPR00310	King
91	Goodwill Redmond Ridge Donation Center	Seattle Goodwill	EPR00310	King
92	Goodwill Renton Store	Seattle Goodwill	EPR00310	King
93	Goodwill Sammamish Donation Center	Seattle Goodwill	EPR00310	King
94	Goodwill Seattle Store	Seattle Goodwill	EPR00310	King
95	Goodwill Shoreline Store	Seattle Goodwill	EPR00310	King
96	Goodwill Snoqualmie Ridge	Seattle Goodwill	EPR00310	King
97	Goodwill South Lake Union	Seattle Goodwill	EPR00310	King
98	Goodwill Southcenter Store	Seattle Goodwill	EPR00310	King
99	Goodwill Totem Lake Donation Center	Seattle Goodwill	EPR00310	King
100	Goodwill University District Store Donation Center	Seattle Goodwill	EPR00310	King
101	Goodwill West Seattle Donation Center	Seattle Goodwill	EPR00310	King
102	Goodwill Woodinville Donation Center	Seattle Goodwill	EPR00310	King
103	Goodwill Woodinville P&R Donation Center	Seattle Goodwill	EPR00310	King
104	InterConnection Computer Reuse	InterConnection Computer Reuse	EPR00369	King
105	Kemer Computer Surplus	Kemer Computer Surplus	EPR01221	King
106	Lucky Leo's	Lucky Leo's LLC	EPR01256	King
107	Northwest Center Truck at Albertsons	Northwest Center	EPR00411	King
108	Northwest Center Truck at Albertson's Bellevue	Northwest Center	EPR00411	King
109	Northwest Center Truck at Carnation IGA Grocery	Northwest Center	EPR00411	King
110	Northwest Center Truck at Cottage Lake Safeway	Northwest Center	EPR00411	King
111	Northwest Center Truck at Pine Lake QFC	Northwest Center	EPR00411	King
112	Northwest Center Truck at QFC North Bend	Northwest Center	EPR00411	King
113	Northwest Center Truck at Redmond QFC	Northwest Center	EPR00411	King
114	Northwest Truck at Madrona Grocery Outlet	Northwest Center	EPR00411	King
115	NW Center Truck at Queen Anne Diamond Parking	Northwest Center	EPR00411	King
116	NW Center Truck at Walmart Overflow Parking South	Northwest Center	EPR00411	King
117	NW Center Truck at West Seattle Key Bank Parking	Northwest Center	EPR00411	King
118	NW Center Truck at Wilderness Village QFC	Northwest Center	EPR00411	King
119	NW Center Truck in Wedgwood	Northwest Center	EPR00411	King
120	NWC Truck at Interbay Whole Foods Market	Northwest Center	EPR00411	King
121	Pacific Power Batteries of Kirkland	Pacific Power Batteries of Kirkland	EPR01224	King
122	PC Recycle - Bellevue	PC Recycle	EPR00220	King
123	PC Recycle - Bothell	PC Recycle	EPR00220	King
124	PC Recycle - Bridle Trails Shopping Center	PC Recycle	EPR00220	King
125	PC Recycle - Woodinville	PC Recycle	EPR00220	King
126	Planet USA, LLC	Planet USA, LLC	EPR00975	King
127	RE-PC Seattle	RE-PC	EPR00426	King
128	RE-PC Tukwila	RE-PC	EPR00426	King
129	Salvation Army Auburn Donation Site	The Salvation Army Seattle ARC	EPR00543	King

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
130	Salvation Army Ballard Fred Meyer Donation Site	The Salvation Army Seattle ARC	EPR00543	King
131	Salvation Army Burien Donation Site	The Salvation Army Seattle ARC	EPR00543	King
132	Salvation Army Family Store	The Salvation Army Seattle ARC	EPR00543	King
133	Salvation Army Federal Way Site	The Salvation Army Seattle ARC	EPR00543	King
134	Salvation Army Kent Donation Site	The Salvation Army Seattle ARC	EPR00543	King
135	Salvation Army Redmond Donation Site	The Salvation Army Seattle ARC	EPR00543	King
136	Salvation Army Renton Donation Site	The Salvation Army Seattle ARC	EPR00543	King
137	Salvation Army Renton Fred Meyer Donation Center	The Salvation Army Seattle ARC	EPR00543	King
138	Salvation Army Seattle ARC	The Salvation Army Seattle ARC	EPR00543	King
139	Salvation Army Shoreline Donation Site	The Salvation Army Seattle ARC	EPR00543	King
140	Seattle Computers	Seattle Computers	EPR01233	King
141	St Vincent de Paul 1st Ave S	St Vincent de Paul Seattle/King County	EPR00525	King
142	St Vincent de Paul 4th Ave S	St Vincent de Paul Seattle/King County	EPR00525	King
143	St Vincent de Paul Aurora Ave N	St Vincent de Paul Seattle/King County	EPR00525	King
144	St Vincent de Paul Bothell Way NE	St Vincent de Paul Seattle/King County	EPR00525	King
145	St Vincent de Paul Kent	St Vincent de Paul Seattle/King County	EPR00525	King
146	St Vincent de Paul Renton	St Vincent de Paul Seattle/King County	EPR00525	King
147	Total Reclaim 6th Ave Site	Total Reclaim, Inc.	EPR00544	King
148	UpTeKK	UpTekk	EPR00491	King
149	Value Village Burien	Savers Recycling, Inc.	EPR00484	King
150	Value Village Issaquah	Savers Recycling, Inc.	EPR00484	King
151	Value Village Kent	Savers Recycling, Inc.	EPR00484	King
152	Value Village Kirkland	Savers Recycling, Inc.	EPR00484	King
153	Value Village Redmond	Savers Recycling, Inc.	EPR00484	King
154	Value Village Seattle 15th Ave NW	Savers Recycling, Inc.	EPR00484	King
155	Value Village Seattle Lake City Way	Savers Recycling, Inc.	EPR00484	King
156	Value Village Tukwila	Savers Recycling, Inc.	EPR00484	King
157	Value Village Woodinville	Savers Recycling, Inc.	EPR00484	King
158	VIDEO ONLY - Bellevue	Video Only, Inc.	EPR00855	King
159	VIDEO ONLY - Federal Way	Video Only, Inc.	EPR00855	King
160	VIDEO ONLY - TUKWILA	Video Only, Inc.	EPR00855	King
161	Bainbridge Island Recycling & Garbage Facility	Bainbridge Disposal	EPR00374	Kitsap
162	Bremerton St. Vincent dePaul	St Vincent de Paul Bremerton	EPR00494	Kitsap
163	Goodwill Bainbridge Island Don. Center	Seattle Goodwill	EPR00310	Kitsap
164	Goodwill Bremerton Store	Seattle Goodwill	EPR00310	Kitsap
165	Goodwill Port Orchard Store	Seattle Goodwill	EPR00310	Kitsap
166	Goodwill Poulsbo Donation Center	Seattle Goodwill	EPR00310	Kitsap
167	Goodwill Silverdale Store	Seattle Goodwill	EPR00310	Kitsap
168	Olympic View Transfer Station	Waste Management of Washington	EPR00264	Kitsap
169	Peninsula All Shred	All Shred	EPR00502	Kitsap
170	Goodwill Ellensburg Store	Goodwill of the Olympics and Rainier Region	EPR00290	Kittitas
171	Kittitas Valley Recycling - Ellensburg	Kittitas Valley Recycling	EPR00515	Kittitas
172	Republic Services Div 4178 - Goldendale Transfer	Republic Services Div 4178	EPR00482	Klickitat
173	Goodwill Centralia Store	Goodwill of the Olympics and Rainier Region	EPR00290	Lewis

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
174	Tiger Mountain Technologies	Tiger Mountain Technologies	EPR00707	Lewis
175	Visiting Nurses Thrift Store	Visiting Nurses Foundation	EPR00937	Lewis
176	Visiting Nurses Thrift Store	Visiting Nurses Foundation	EPR00937	Lewis
177	Lincoln County Transfer Station	Lincoln County Transfer Station	EPR00367	Lincoln
178	Goodwill Shelton Store	Goodwill of the Olympics and Rainier Region	EPR00290	Mason
179	Pay More Recycle and Salvage Inc Shelton	Pay More Recycle and Salvage	EPR01202	Mason
180	Green Okanagon	Green Okanagon	EPR00572	Okanogan
181	Methow Recycles	Methow Recycles	EPR00298	Okanogan
182	Nespelem Recycling Center	Colville Confederated Tribes	EPR00578	Okanogan
183	Omak Community Center	Colville Confederated Tribes	EPR00578	Okanogan
184	Pacific Solid Waste Disposal	Pacific Solid Waste Disposal Inc	EPR00371	Pacific
185	Royal Heights Transfer Station	Royal Heights Transfer Station	EPR00488	Pacific
186	Ione Transfer Station	Pend Oreille Co Public Works	EPR00404	Pend Oreille
187	Newport Transfer Station	Pend Oreille Co Public Works	EPR00404	Pend Oreille
188	Usk Transfer Station	Pend Oreille Co Public Works	EPR00404	Pend Oreille
189	Affordable Computer Service	Affordable Computer Service	EPR00418	Pierce
190	Goodwill 38th Street Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
191	Goodwill 72nd Street Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
192	Goodwill Bonney Lake Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
193	Goodwill Gig Harbor Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
194	Goodwill Lakewood Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
195	Goodwill North Tacoma Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
196	Goodwill Purdy Transfer Donation Station	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
197	Goodwill Puyallup Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
198	Goodwill South Hill Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
199	Goodwill South Tacoma Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
200	Goodwill Spanaway Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
201	Goodwill Tacoma Outlet Store	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
202	Goodwill Tacoma Refuse/Recycling Donation Station	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
203	Goodwill University Place Refuse/Recycle Station	Goodwill of the Olympics and Rainier Region	EPR00290	Pierce
204	Green PC	Green PC	EPR00520	Pierce
205	Joint Base Lewis-McChord Recycle Center	LeMay Inc	EPR00529	Pierce
206	McChord Recycling Center	LeMay Inc	EPR00529	Pierce
207	Recycling Resources	Recycling Resources	EPR00877	Pierce
208	Salvation Army Bonney Lake Donation Site	The Salvation Army Seattle ARC	EPR00543	Pierce
209	Salvation Army Puyallup Donation Site	The Salvation Army Seattle ARC	EPR00543	Pierce
210	St. Vincent de Paul S. 56th St.	St Vincent de Paul Tacoma	EPR00561	Pierce
211	St. Vincent de Paul Summit	St Vincent de Paul Tacoma	EPR00561	Pierce
212	Value Village Puyallup	Savers Recycling, Inc.	EPR00484	Pierce
213	Value Village University Place	Savers Recycling, Inc.	EPR00484	Pierce
214	VIDEO ONLY - Tacoma	Video Only, Inc.	EPR00855	Pierce
215	Lopez Solid Waste Disposal District	Lopez Solid Waste Disposal District	EPR01022	San Juan
216	Orcas Recycling Services	Orcas Recycling Services	EPR00512	San Juan
217	San Juan Transfer Station	Lautenbach Industries LLC	EPR01239	San Juan

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
218	Anacortes Aktion Club	Anacortes Aktion Club	EPR00523	Skagit
219	Goodwill Anacortes Donation Center	Seattle Goodwill	EPR00310	Skagit
220	Goodwill Mount Vernon Store	Seattle Goodwill	EPR00310	Skagit
221	Pacific Power Batteries Mount Vernon	Pacific Power Batteries	EPR00967	Skagit
222	Sedro-Woolley City Recycling Facility	City of Sedro-Woolley	EPR00324	Skagit
223	Value Village Mt Vernon	Savers Recycling, Inc.	EPR00484	Skagit
224	Mt. Pleasant Transfer Facility	Skamania County Solid Waste Division	EPR00358	Skamania
225	Stevenson Transfer Facility	Skamania County Solid Waste Division	EPR00358	Skamania
226	Underwood Transfer Facility	Skamania County Solid Waste Division	EPR00358	Skamania
227	Ace Metal Company and Mukilteo Recycling Center	Ace Metal Company	EPR00557	Snohomish
228	Appliance Recycling Outlet	Appliance Recycling Outlet	EPR00486	Snohomish
229	Eman computer Care	Eman Computer Care and Data Recovery	EPR00052	Snohomish
230	Eman Computer Care	Eman Computer Care and Data Recovery	EPR00052	Snohomish
231	E-Waste, LLC - Lynnwood	E-Waste LLC	EPR00445	Snohomish
232	Goodwill Edmonds Store	Seattle Goodwill	EPR00310	Snohomish
233	Goodwill Everett Store	Seattle Goodwill	EPR00310	Snohomish
234	Goodwill Lynnwood Store	Seattle Goodwill	EPR00310	Snohomish
235	Goodwill Martha Lake Donation Center	Seattle Goodwill	EPR00310	Snohomish
236	Goodwill Marysville Store	Seattle Goodwill	EPR00310	Snohomish
237	Goodwill Monroe Store	Seattle Goodwill	EPR00310	Snohomish
238	Goodwill Snohomish Donation Center	Seattle Goodwill	EPR00310	Snohomish
239	Goodwill South Everett Store	Seattle Goodwill	EPR00310	Snohomish
240	Kiwanis Recycle	Stanwood Camano Kiwanis	EPR01059	Snohomish
241	Northwest Center Mukilteo	Northwest Center	EPR00411	Snohomish
242	Northwest Center Truck at Lake Stevens Albertsons	Northwest Center	EPR00411	Snohomish
243	NW Center Truck at Thrasher's Corner Shopping Cnt.	Northwest Center	EPR00411	Snohomish
244	Pacific Power Batteries Everett	Pacific Power Batteries	EPR00967	Snohomish
245	Pacific Power Batteries Marysville	Pacific Power Batteries	EPR00967	Snohomish
246	Pacific Power Batteries Mountlake Terrace	Pacific Power Batteries	EPR00967	Snohomish
247	Salvation Army Lynnwood Donation Center	The Salvation Army Seattle ARC	EPR00543	Snohomish
248	Salvation Army Marysville Donation Site	The Salvation Army Seattle ARC	EPR00543	Snohomish
249	Salvation Army Mill Creek Donation Site	The Salvation Army Seattle ARC	EPR00543	Snohomish
250	St. Vincent de Paul Everett	St Vincent de Paul Northsound	EPR00560	Snohomish
251	St. Vincent de Paul Monroe	St Vincent de Paul Northsound	EPR00560	Snohomish
252	Truck On Call	Truck On Call	EPR00528	Snohomish
253	Value Village Edmonds	Savers Recycling, Inc.	EPR00484	Snohomish
254	Value Village Everett	Savers Recycling, Inc.	EPR00484	Snohomish
255	Value Village Lynwood	Savers Recycling, Inc.	EPR00484	Snohomish
256	Value Village Marysville	Savers Recycling, Inc.	EPR00484	Snohomish
257	VIDEO ONLY - Lynnwood	Video Only, Inc.	EPR00855	Snohomish
258	APB AUTO PARTS	Auto Parts Barn, Inc.	EPR00904	Spokane
259	DeVries Business Services	DeVries Business Services	EPR00914	Spokane
260	Goodwill Airway Heights Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
261	Goodwill Cheney Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
262	Goodwill Dishman-Appleway Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
263	Goodwill Downtown Spokane Plant/Dock Donation Cent	Inland Northwest Goodwill	EPR00334	Spokane
264	Goodwill Francis Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
265	Goodwill Mt. Spokane Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
266	Goodwill North Division Y Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
267	Goodwill North Nevada Store	Inland Northwest Goodwill	EPR00334	Spokane
268	Goodwill NW Blvd Store	Inland Northwest Goodwill	EPR00334	Spokane
269	Goodwill South Hill 57th Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
270	Goodwill South Hill Store Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
271	Goodwill South Pines Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
272	Goodwill Spokane Valley Store	Inland Northwest Goodwill	EPR00334	Spokane
273	Goodwill Spokane Warehouse/Outlet	Inland Northwest Goodwill	EPR00334	Spokane
274	Goodwill Veradale Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
275	Goodwill Wandermere Donor Service Center	Inland Northwest Goodwill	EPR00334	Spokane
276	Inland ReTech	Electronic Recycling, LLC dba Inland ReT	EPR00335	Spokane
277	Recycle Techs	Recycle Techs	EPR00478	Spokane
278	Recycle Techs North	Recycle Techs	EPR00478	Spokane
279	Refine Computers	Refine Computers	EPR01258	Spokane
280	Salvation Army Spokane	The Salvation Army Seattle DHQ	EPR00470	Spokane
281	Salvation Army Spokane Valley	The Salvation Army Seattle DHQ	EPR00470	Spokane
282	Value Village Spokane E Sprague	Savers Recycling, Inc.	EPR00484	Spokane
283	Value Village Spokane W Boone	Savers Recycling, Inc.	EPR00484	Spokane
284	VIDEO ONLY - Spokane	Video Only, Inc.	EPR00855	Spokane
285	Goodwill Colville Store	Inland Northwest Goodwill	EPR00334	Stevens
286	4th Dimension Computers	4th Dimension Computer	EPR00002	Thurston
287	Goodwill Hawks Prairie Landfill/Recycle Station	Goodwill of the Olympics and Rainier Region	EPR00290	Thurston
288	Goodwill Lacey Store	Goodwill of the Olympics and Rainier Region	EPR00290	Thurston
289	Goodwill Olympia Outlet	Goodwill of the Olympics and Rainier Region	EPR00290	Thurston
290	Goodwill Olympia Store	Goodwill of the Olympics and Rainier Region	EPR00290	Thurston
291	Goodwill South Lacey Store	Goodwill of the Olympics and Rainier Region	EPR00290	Thurston
292	Goodwill Yelm Store	Goodwill of the Olympics and Rainier Region	EPR00290	Thurston
293	Margo's Collection Site	Same Time Next Year	EPR00273	Thurston
294	MARS LLC	Mars, LLC	EPR01013	Thurston
295	PC Repair One - The Computer Shop	The Computer Shop	EPR01242	Thurston
296	Same Old Thing	Same Time Next Year	EPR00273	Thurston
297	State Surplus Tumwater Site	Department of Enterprise Services / State Surplus	EPR00480	Thurston
298	Value Village Lacey	Savers Recycling, Inc.	EPR00484	Thurston
299	Stanley's Sanitary Service	Stanley's Sanitary Service LLC	EPR00493	Wahkiakum
300	CEP Recycle Walla Walla	HHH	EPR00471	Walla Walla
301	Goodwill Walla Walla Store	Goodwill Industries of the Columbia	EPR00871	Walla Walla
302	Goodwill WW Country Store	Goodwill Industries of the Columbia	EPR00871	Walla Walla
303	Lillie Rice Center, Inc	Lillie Rice Center, Inc	EPR01223	Walla Walla
304	Walla Walla Recycling	Walla Walla Recycling Inc	EPR00496	Walla Walla

	<i>Collector Site Name</i>	<i>Operating Organization</i>	<i>EPR Number</i>	<i>County</i>
305	1PC LLC	1PC LLC	EPR01251	Whatcom
306	Goodwill Bellingham Store	Seattle Goodwill	EPR00310	Whatcom
307	Recycling & Disposal Services, Inc.	Recycling & Disposal Services, Inc.	EPR00510	Whatcom
308	Safe And Easy Recycling - Bellingham	Safe And Easy Recycling	EPR00397	Whatcom
309	Safe And Easy Recycling -Lynden/North County	Safe And Easy Recycling	EPR00397	Whatcom
310	Salvation Army Bellingham	The Salvation Army Seattle DHQ	EPR00470	Whatcom
311	Value Village Bellingham	Savers Recycling, Inc.	EPR00484	Whatcom
312	Goodwill Pullman Donor Service Center	Inland Northwest Goodwill	EPR00334	Whitman
313	Pullman Disposal Shop	Pullman Disposal Service, Inc.	EPR00299	Whitman
314	Washington State University	Washington State University	EPR01058	Whitman
315	Goodwill Selah Store	Goodwill of the Olympics and Rainier Region	EPR00290	Yakima
316	Goodwill Sunnyside Store	Goodwill Industries of the Columbia	EPR00871	Yakima
317	Goodwill Union Gap Store	Goodwill of the Olympics and Rainier Region	EPR00290	Yakima
318	Goodwill Yakima Store	Goodwill of the Olympics and Rainier Region	EPR00290	Yakima
319	Salvation Army Union Gap	The Salvation Army Seattle DHQ	EPR00470	Yakima
320	Salvation Army Yakima	The Salvation Army Seattle DHQ	EPR00470	Yakima
321	Sunnyside Christian Thrift Shop	Sunnyside Christian Thrift Shop	EPR00566	Yakima
322	Union Gospel Mission Yakima	Union Gospel Mission Yakima	EPR00568	Yakima
323	Yakima Waste Systems - Granger	Yakima Waste Systems, Inc.	EPR00463	Yakima
324	Yakima Waste Systems - Yakima	Yakima Waste Systems, Inc.	EPR00463	Yakima

Processors participating in WMMFA Standard Plan - Description of processes and methods Reference to compliance audits 2018

The information listed below represents a summary of processor locations and processing methods of each of the approved processors participating in the Standard Plan.

Processes listed include all registered processors utilized for any quantity of materials in 2018 with the data provided based on most recent audits.

For the most current compliance audit report see "Compliance audit reports for direct processors of covered electronics" at the link below

[E-Cycle Registered Processor Audits Link](#)

Ace Metal Company, 11110 Mukilteo Speedway #202, Mukilteo, WA 98275			
		James Yoo	(425)493-6802
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Removed from CEP by hand dismantling separated panel and funnel, all metal removed	Glass to glass, all materials are reused in new glass product	India/Spain/Netherlands
Circuit Boards	Removed from CEP by hand dismantling	Precious metals recovery	Japan
Batteries	Hand removed from CEP and sorted by type	Metal Recovery	USA
Mercury Devices	Hand removed from CEP managed as universal waste	Retort Mercury Recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Hand removed from CEP and sorted	Metal Recovery	USA
Plastics	Hand removed from CEP and sorted	Plastic Recovery	China
Insulated Wire	Hand removed from CEP and sorted	Metal Recovery	USA
Aluminum	Hand removed from CEP and sorted	Metal Recovery	USA

EWC Group, 410 Andover Park E., Tukwila, WA 98188		James Piek	(206)767-9950
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Manually removed from CEP; separate panels, metals, and all other residuals	Glass to glass; all materials reused in new glass products	U.S./Mexico /India
Circuit Boards	Manually removed from CEP	Primary smelter for precious metal recovery	Korea / Japan / Belgium
Batteries	Manually removed from CEP and sorted by type	Metal Recovery	U.S.
Mercury Devices	Manually removed from CEP and managed as Universal Waste	Mercury recovery	U.S. / Canada
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Manually removed from CEP	Metal recovery	U.S.
Plastics	Manually removed from CEP	Plastic Recovery	China / Canada / U.S.
Insulated Wire	Manually removed from CEP	Metal recovery	China / Korea / U.S.

E-WASTE LLC, 12424 Beverly Park Rd Suite A-4, Lynnwood, WA 98036		Sam or Paul Kim	(425)239-4118
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	It is removed from CEP and screen amd metal gun removed	Glass to glass recycling or other product manufacturing	India
Circuit Boards	Removed from CEP by hand-dismantling	Precious metals recovery	Belgium
Batteries	Removed manually and sorted by type.	Metal Recovery	USA
Mercury Containing Lamps	Hand-removed from CEP by hand dismantling, managed as universal waste.	Mercury Recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed from CEP by hand-dismantling.	Metal Recovery	USA
Plastics	Removed from CEP by hand-dismantling.	Plastic Recovery	Malaysia
Insulated wire	Removed from CEP by hand-dismantling.	Metal Recovery	Japan
Aluminum	Removed from CEP by hand-dismantling.	Metal Recovery	Japan

ECS Refining, 705 Reed Street, Santa Clara, CA 95050		Ken Taggart or Curt Spivey	(408)200-7021
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CPU's and selected Electronic Devices	Most electronic devices are dismantled, however, some are evaluated for reuse and/or refurbishment	Downstream recyclers of post dismantled and post shredded commodities are discussed below.	See Below USA
CRTs	Most CRT's are dismantled and the glass is crushed on site	Downstream recyclers are discussed in Lead Containing Glass, below.	See Below USA
CRT Glass	CRTs that are not refurbished for resale are dismantled and the glass is crushed on site.	<p>ECS prefers to ship lead- containing glass to a CRT Tube manufacturer, which uses the glass to make new CRT Tubes (glass to glass recycling).</p> <p>Lead-containing CRT Glass not shipped for glass-to-glass recycling is shipped to a Lead (Pb) Smelter which recovers the lead as a commodity and sells it on the world market.</p>	Mexico, USA, Canada, India

Circuit Boards (Whole)	Circuit Boards are shredded to a minus 2" particles size. The iron & aluminum are removed by magnetic & eddy current separation.	Shredded circuit boards are shipped to a primary copper smelter which recovers copper, gold, silver and palladium as well as other minor elements. The metals are sold as commodities on the world market.	Canada
Batteries	Batteries are manually removed from electronic devices. The batteries are sorted by type (Alkaline, Lithium, etc.).	<p>Lead/Acid batteries are shipped to a battery manufacturer which recycles the batteries by melting the lead and using it in the manufacture of new batteries.</p> <p>Silver oxide batteries are smelted at ECS Refining Santa Clara and their silver content is captured by ECS. Post smelted materials are sent for further precious metals processing.</p> <p>All other batteries are shipped to a high temperature alloy producer which melts the batteries by their specific type to recover the respective metals.</p>	<p>USA</p> <p>USA</p> <p>USA</p>
Mercury Devices	Mercury devices are received and stored for off-site processing (fluorescent lighting tubes, for example) or mercury devices may be manually removed from other electronic devices.	All mercury-containing devices are shipped to an EPA approved mercury recycler which removes the mercury from the device and produces mercury as a commodity for sale.	USA
Polychlorinated Biphenyls PCBs	PCBs are not "accepted" for storage or processing at ECS. However, ECS may transfer PCB's to an approved TSDF	ECS provides transportation services to an authorized TSDF or recycler.	USA

Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Electronic scrap is shredded to a minus 2" particle size and then the steel is magnetically removed.	The steel is shipped to a steel mill where the steel is melted to produce new steel products (steel rod, plate or bars)	Brokers
Plastics	Plastics are manually removed from the electronic scrap and baled by type of plastic (ABS, HIPS, PC etc.)	The plastic is sold to a plastics processor which grinds the plastic for sale as a raw material feed to manufacturers of plastic products.	Brokers
Insulated Wire	Wire is manually and mechanically removed from electronic scrap.	The wire is shipped to a wire chopping company which mechanically chops the wire and then uses air and/or water to separate the copper from the plastic. The copper & plastic are sold as commodities.	Brokers
Aluminum	Electronic scrap is shredded to a minus 2" particle size and then the aluminum is removed by eddy current separation.	The aluminum is shipped to aluminum alloyers which melt the aluminum and produce aluminum alloys for sale.	Brokers
CRT Yokes	Yokes are compacted and baled on site.	The yokes are shipped to copper alloyers, which melt the yokes and produce copper alloys for sale.	Brokers
Copper	Copper scrap is shredded to a minus 2" particle size and then copper is removed by magnetic separation	The copper is shipped to copper alloyers, which melt the copper and produce copper alloys for sale.	Brokers

ERI Inc., 2302 West Valley Highway, Ste 300., Auburn, WA 98001		Aaron Blum	(206)577-1490
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	It is removed from CEP and screen and metal gun removed.	Glass to tile manufacturing or glass to glass.	Mexico, Spain, India
Circuit Boards	Boards are removed from CEP by manual separation. They are then sent to our Fresno facility for shredding.	Precious Metals Recovery	USA, Japan, Belgium, South Korea
Batteries	Removed manually and sorted by type	Metal Recovery	All Types: USA
Mercury devices	Removed manually and managed as universal waste.	Mercury Recovery	USA
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Steel	Removed Manually and sent to Fresno to be shredded	Metal Recovery	USA
Plastics	Removed manually from CEP and baled	Plastics Recovery	ASIA
Insulated Wire	Removed manually	Metal Recovery	Belgium or Korea
Aluminum	Removed manually	Metal Recovery	USA

Simon Metals LLC, 2202 East River Road, Tacoma, WA 98421		2401 St. Francis Lane, Vancouver, WA 98660	Paul Olson	(253)272-2364
Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country	
CRT Glass	Hand dismantle and remove intact whole tube from CEP, package to prevent release	Glass to glass recycling or smelter	Mexico	
Circuit Boards	Removal of batteries, sort, and/or shred	Primary smelter for recovery of metals	Japan	
Batteries	Hand sort by type and package for shipment	Metal recovery via recycling	U.S.	
Mercury Devices	Hand removed from CEP, package to prevent release	Mercury retort	U.S.	
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination	
Steel	Removed from CEP by shredding or hand dismantling	Metal Recovery	U.S.	
Plastics	Shredded and included with the circuit boards	Primary smelter	Japan	
Insulated Wire	Removed by hand or shredding process	Metal Recovery	U.S. or Japan	

Aluminum	Removed by shredding or by hand from the CEP	Metal Recovery	Japan, U.S.
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Universal Rectcling Technologies, LLC, 10151 SE Jennifer St., Clackamas, OR 97015		Doug Reese	(503)722-2236
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Material Of Concern	Recycling Process	Fate of Recycling Process	End of life processing-Destination Country
CRT Glass	Glass is crushed and inserted into the tile making process	Tile	Spain
Circuit Boards	Removed from CEP by automated seperation and shred process	Smelted/refined for prescious metal recovery	Japan, Belgium
Batteries	Hand removed from CEP or received in as batteries seperately. Hand sorted by type	Metal Recovery	U.S.
Mercury devices	Received in as mercury devices seperately. Hand sorted by type and shipped	Mercury recovery/retort	U.S.
Non-Materials of Concern	Recycling Process	Fate of Recycling Process	Destination
Ferrous Metals	Removed from CEP by automated seperation process	Metal recovery	U.S.
Plastics	Manual Sorting, Washing/Drying, Shredding/Granulation, Blending, Compounding of plastic materials	Plastics recovery	U.S., Malaysia, Canada
Non-Ferrous Metals	Removed from CEP by automated seperation and sorting process	Metal recovery	U.S., South Korea, Japan

NOTE: For a complete history of the WMMFA's outreach efforts please view prior year's annual reports. Outreach efforts 2016-2018 described here.

For 2016 outreach efforts continued in a similar manner as 2014 - 2015 to ensure that information about where, how, and why to recycle CEP's was available to all state residents - especially smaller counties identified as having lower collection per capita than the state wide average. Specifically:

Billboards placed:

- Shelton, WA Hwy 101 North of Air view way - 12 weeks
- Wenatchee, WA N. Miller St and N Wenatchee Ave. S - 12 weeks
- Wenatchee, WA various rotating metro locations- 16 weeks
- Quincy, WA Hwy 281 and Hwy 28N - 12 weeks
- Yakima, WA 6 locations various metro - 6 each at 16 weeks each
- Tri Cities, WA 6 locations various metro - 5 each at 5 weeks each
- Shelton, WA Hwy 101 North of Air view way - 4 weeks

In 2016 the WMMFA also contracted for Mobile ads generated via proximity to the billboard campaign ads. The mobile campaign in the Tri Cities area



Consumer sees OOH advertisement



Consumer sees complementing ad on phone allowing for immediate action.



Ad delivers critical information, such as distance to business location and opportunities for more information.



Clicking the ad leads to a customized landing page, leading to trackable actions such as:

- Driving directions
- Contact info
- Special offers
- Form fill

Other outreach utilized in 2016 (as in previous years) include a 50% or more co-operative advertising expenditure sharing with some of our collectors. Pend Oreille County Public Works (Newport, WA and E-Cycle Northwest - Sequim, WA) have been among participants in 2016. The outreach efforts as described here and as undertaken in 2016 are a cumulative ongoing effort. Posters, brochures, and co-op venues are a mainstay used throughout every year.

2017:

The WMMFA, based, in part, on input from Ecology purchased 36 weeks of billboard advertising in Longview, WA at the major intersection of Oregon Way and Industrial Avenue. Full size billboards were also placed in Centralia for 24 weeks at two locations. 12 weeks at W. Main and Cedar Street and 24 weeks at NE Kresky and NE Hampe Way.

The WMMFA also purchased 120 each 30 second radio spots on KIRO FM for broadcast within the Seattle listening area during prime driving times for the months of March and April of 2017. These radio spots were designed to emphasize the free recycling services provided by E-Cycle Washington as provided by the manufacturers through the WMMFA and to direct listeners to the E-Cycle WA web site to find a drop off site closest to them.

Throughout 2017 a major re-branding campaign was also undertaken by re-issuing new laminated poster sets and brochures (outdoor or indoor use) to over 60 collection site operators for use.

2018:

26 consecutive weeks of a print ad in The Giant Nickel (Tri-Cities WA area). The GIANT Nickel is published weekly as a regional classified want-ad buy/sell flyer. Circulation of the flyer is via multiple retail establishments and is available free of charge to consumers and households. Circulation area includes: Basin City, Benton City, Burbank, Connell, Ellensburg, Eltopia, Finley, Grandview, Granger, Kennewick, Mesa, Moses Lake, Othello, Pasco, Prosser, Richland, Sunnyside, Toppenish, Tri Cities, Union Gap, Walla Walla, Wapato, Warden, West Richland, Yakima, and Zillah. This particular outreach was dedicated to one processor, Clayton Ward Kennewick, in order to evaluate the impact of this type of outreach to a particular target collector. The results of the outreach are inconclusive at the time of this report submission.

The Authority reprinted 5000 english and spanish brochures (example previously illustrated in prior editions of this section) and 600 laminated posters intended to be posted inside or out of all collector facilities . This inventory is meant to fulfill requestes from collectors and other covered or non-covered entities that wish to inform the public of electronic product recycling opportunities. Replacement posters that degrade over time are replaced upon demand. Brochures are distrbuted to collectors and other locations upon request and aurtomatically to collectors requesting posters.

The WMMFA contracted with Viamedia, Inc. to run a total of 600 each 15 second television ads created with the help of ecology based on our original video production produced in 2010 and referenced earlier in this section. These ads promoted E-Cycle Washington and were run during the Winter Olymics February 8th through February 25th on networks: USA, NBCS, MSNBC & CNBC. 720 15 minute ads were also run in February on channels HGTV, FOOD, CNN, A&E, Bravo, AMC, FS1, Freeform, SYFY, Hallmark, TRU, LMN,OWN, HLN,NFL and the NBA All Star Game.

In March of 2018 the WMMFA sponsored 190 each 15 second ads during the College Basketball March Madness season (March 13-April 2). Another 720 of these ads were run in March on the same networks as referenced in the February run. In a cooperative effort with the Department of Ecology the Authority sponsored the printing and insertion of E-Cycle Washington promotional material as shown below to approximately 150,000 households in Douglas and Spokane Counties.

In a cooperative effort with the Department of Ecology the Authority sponsored the printing and insertion of E-Cycle Washington promotional material (a utility bill insert) as shown below to approximately 150,000 households in total within Douglas and Spokane Counties.



The graphic features the E-Cycle Washington logo on the left, which includes a circular icon with a plug and a recycling symbol, followed by the text "E-CYCLE washington" and "recycle tvs, computers, laptops and monitors". Below this is an illustration of a laptop, a television, and a computer monitor. To the right of the logo are three bullet points, each with a circular icon containing a plug and a recycling symbol. The first bullet point states "E-CYCLE Washington is FREE!" and explains that electronics manufacturers pay for the program. The second bullet point states "E-CYCLE Washington is EASY!" and mentions convenient collection sites. The third bullet point states "E-CYCLE Washington recycles RESPONSIBLY!" and notes that participating recyclers follow sound management practices. At the bottom right, the text "... small effort, big return" is displayed. A green banner at the bottom contains the website "www.ecyclewashington.org" and the phone number "1.800.RECYCLE".

E-CYCLE
washington

recycle tvs, computers,
laptops and monitors

E-CYCLE Washington is FREE!
Electronics manufacturers pay for and provide this recycling program. It is available to households, small businesses, schools, charities and small government.

E-CYCLE Washington is EASY!
Convenient collection sites are available year round.

E-CYCLE Washington recycles RESPONSIBLY!
Participating recyclers must follow environmentally sound management practices.

... small effort, big return

www.ecyclewashington.org | 1.800.RECYCLE

Materials of Concern Export information

The preferred environmental standards that all processors contracted with the WMMFA must subscribe to require that any materials of concern (materials that present potential risk to humans or the environment) exported to a NON-OECD (Organization for Economic Co-operation and Development) member country have approval from the destination country and confirmation from the US Environmental Protection Agency.

Total weight of all materials of concern, including unwanted electronic products, electronic components, and electronics scrap collected by the WMMFA that have been exported from Washington state for plan year 2018, from processors used by the WMMFA, to countries that are not members of the Organization for Economic Co-operation and Development or the European Union = 0. This information is provided to the WMMFA by each processor. Destination countries for "materials of concern" and non- materials of concern (commodities) can be found in section 5.c.d. of this report

NOTE: The WMMFA annual report submitted in 2015 indicated that zero pounds of materials of concern (MOC) were exported to NON-OECD countries. In early 2016 we learned that one of our processors, Total Reclaim, had been exporting flat screen devices to Hong Kong, which is not a member of the OECD. The amount of devices shipped to Hong Kong was estimated at approximately 1.5 million pounds for 2015, or, 3.5% of all pounds collected in 2015. It was also determined that a quantity equating to approximately 1.9% of all devices collected since start up were exported to Hong Kong by this processor.

List of CEP Manufacturers participating in the Standard Plan 2018*

* Note: Not all manufacturers listed actually received an invoice for sharing of WMMFA expenses. Actual invoices (plan share of expenses) were based on the total "market" shares (by weight), for all of the covered products accepted free of charge by the E-Cycle Washington program of each listed manufacturer holding a market share greater than .0003% of the total market share by weight of all participants for the brands they are responsible for.

1	Samsung Electronics Co
2	Dell Computer Corp
3	VIZIO Incorporated
4	Hewlett Packard
5	LG Electronics USA Inc
6	Apple
7	Tongfang Global (Element, Westingh, SEIKI)
8	Best Buy
9	Lenovo
10	Sony Electronics Inc
11	Acer America Corp
12	Asus Computer International
13	Emerson Radio Corp
14	Hisense USA Corp
15	TTE Technology Inc
16	Panasonic
17	SANYO Funai Corporation, Inc.
18	Curtis (RCA)
19	Toshiba America Information Systems, Inc.
20	Philips Electronics (P&F) Magnavox, Philco, Philips
21	Envision Peripherals Inc
22	Sceptre, Inc.
23	Venturer Electronics Inc
24	ViewSonic Corp World HQ new .91
25	Haier America
26	Hitachi America, LTD. Digital Media Division
27	Amazon Fulfillment Services, Inc.
28	JVC KENWOOD USA Corp
29	Microsoft Corporation
30	YiFang U.S.A Inc
31	Planar Systems Inc
32	NEC Display Solutions
33	BenQ America Corp
34	PLR IP Holdings, LLC
35	Osram Sylvania

List of CEP Manufacturers participating in the Standard Plan 2018*

36	Thomson Inc USA
37	VOXX International Corp. (Audiovox)
38	Cellco Partnership dba Verizon Wireless
39	MSI Computer
40	Changhong Trading Corp. USA
41	TCT Mobile (US) Inc.
42	3MD Inc. - Alden Assoc
43	Oracle America Inc
44	Polycom Inc
45	VTech Electronics North America, LLC
46	Matell
47	Hannstar Display Corp
48	Equus Computer Systems Inc.
49	Ematic
50	SSNA, Inc.
51	DPI Inc
52	4th Dimension Computer
53	International Business Machines Corp.
54	Shuttle Computer Group
55	Tatung Company of America Inc
56	US Micro PC Inc
57	USA111 Inc
58	Craig Electronics, Inc
59	Fujitsu America, Inc.
60	HTC America, Inc.
61	American Future Tech Corp dba iBuypower
62	EIZO Inc.
63	CyberPower
64	Curtis International Ltd
65	Worldwide V7 Private Label
66	Supersonic, Inc.
67	Barnes&Noble.com LLC
68	Disney Consumer Products, Inc.
69	Double Power Technology, Inc. violation
70	HKC Digital USA Inc. Violation
71	Infotech Systems Inc BK
72	Infotel Distributors Inc
73	Oregon Scientific, Inc.
74	PC System Services Inc
75	Sanyo

List of CEP Manufacturers participating in the Standard Plan 2018*

76	Sharp Electronics Corporation
77	TMAX Digital Inc.
78	Upstarusa Group
79	Visual Land
80	Wyse Technology LLC
81	Silo Digital
82	Lorex Technology Inc.
83	GammaTech Computer Corp.
84	Click N' Kids
85	Pioneer Electronics (USA), Inc.
86	Premio, Inc
87	China Great Wall Computer Holding LTD
88	Matsunichi Digital USA, Inc.
89	Naxa Electronics, Inc.
90	Axess Products Corporation
91	SunBriteTV LLC
92	Abacus Office Machines
93	ACC Tech
94	Bang & Olufsen
95	Charisma Productions
96	Localtel Communications
97	Computer Nut Hut
98	Computer Smiths Inc
99	Computer Technology Link
100	Custom Computer Sales & Svc
101	Eman Computer Care and Data Recovery
102	Grays Harbor Computer Svc
103	InFocus Corp
104	Last Stop Computers
105	Lincoln Computers
106	Lookout Electronics
107	Main Business Systems
108	Mitsubishi Electric US, Inc.
109	Modern Office Equipment
110	Perfection PC Inc.
111	Pogo Linux, Inc.
112	Puget Sound Systems Inc.
113	Pyramid Distributing
114	Quality Computers & Svc
115	Re-Pc Recycled Computers
116	Richman Poorman Computers
117	Softline Computers & Svc
118	Summit Computers

List of CEP Manufacturers participating in the Standard Plan 2018*

119	ToteVision
120	Unisys Direct
121	VAR Corporation
122	Wacom Technology
123	3M Touch Systems
124	Nickelodeon & Viacom Consumer Products
125	Elo Touch Solutions, Inc
126	Digital Systems & Solutions Corporation
127	PC Recycle
128	Hyundai IT America Corp.
129	Incommand Inc
130	LaCie USA
131	Fry's Electronics, Inc.
132	GVISION USA, Inc.
133	Sager Midern Computer Inc.
134	Computer Works of Yakima Inc
135	Falcon Northwest
136	Yakima Networking
137	Marshall Electronics, Inc.
138	Pelco
139	DoubleSight Displays
140	Angel Computer Systems Inc
141	Creative Computer Sales Inc
142	On Line Support Inc
143	Dat-a-Way Computer Solutions
144	FAVI Entertainment
145	Crosley Corp.
146	Prostar Computer, Inc
147	Michley Electronics Inc
148	jWIN Electronics Corp.
149	AMA Computer Services, LLC
150	Associated Computer Specialists
151	Coastline Micro Inc.
152	Complete Computer Services
153	Computer Connections
154	Lilliput Electronics Co, Ltd
155	Up Time Technology
156	ADEK Industrial Computers
157	Cutting Edge Computer Solutions
158	I-O Corporation
159	J & N Computer Service
160	TekVisions, Inc
161	Best Little Computer Store
162	Marvel Entertainment, LLC
163	Friendly Computers / Computer Renaissance

List of CEP Manufacturers participating in the Standard Plan 2018*

164	Innovative DTV Solutions
165	Computer Warehouse of Central Florida, Inc
166	Tyco Integrated Security
167	Ikegami Tsushinki Ltd.
168	Tri-Ed / Northern Video Distribution
169	Majestic Global USA
170	Vitek Industrial Video Products, Inc.
171	CWD limited
172	Zalman Tech Co., Ltd
173	EverFocus Electronics Corporation
174	Mimo Inc
175	LeapFrog Enterprises
176	Tech Mob
177	NCS Technologies, Inc
178	Supercircuits, Inc
179	G-STYLE Ltd.
180	ZTO Technology, Inc.
181	Zebra Computers
182	Sensormatic Electronics LLC
183	Bosch Security Systems, Inc.
184	Idolian Mobile, Inc.
185	Ciil Technologies, LLC
186	Schoenfeld International Inc.
187	Worryfree Gadgets LLC
188	PDi Communication Systems, Inc.
189	Silicon Mechanics
190	Elitegroup Computer Systems
191	Silicon Valley Imaging Corp.
192	ZOTAC USA, Inc.
193	Transform Partners, LLC
194	Global Phoenix Computer Technologies Soluti
195	Latte Communications, Inc
196	WolVol Inc.
197	Google Inc
198	Integrity Computers and Networking
199	Proexpress Distributor, LLC
200	Afunta LLC
201	AMDOE, LLC
202	Modbook, Inc.
203	Cardio Theater
204	SkyVue
205	Evervue USA
206	MTM Trading LLC
207	Shenzhen Turbosight Technologies Co., Ltd
208	Diaotec

List of CEP Manufacturers participating in the Standard Plan 2018*

209	Cycrest Systems Inc.
210	Contel USA
211	Kobian Canada Inc.
212	Chromo Inc.
213	Light Ahead
214	iGaming
215	Simbans Limited
216	Matricom
217	UNOWHY
218	CBC (America) Corp
219	USA LuguLake Industrial Investment Co.,Ltd
220	American Sunrex Corporation
221	Amelia World Corp d/b/a LINSAY
222	Beijing Newman Ideal Digital Technology Co.
223	Rullingnet Corporation
224	Quantum Suppliers
225	MICILE, Inc.
226	iDeaUSA
227	Worldwide Gadgets LLC
228	Quality Deal Express Inc
229	HH Elements, Inc
230	Deli Stationery, Inc.
231	MI Technologies, Inc.
232	DTx
233	Vicon
234	TAIWAN VIDEO SYSTEM CO., LTD
235	OREI
236	ShenZhen Globalegrow E-Commerce Co., Ltd
237	Nationite
238	Digital Reins, Inc.
239	Pacific IT Services LLC
240	Sakar International, Inc
241	Grand Electronics, Inc.
242	NVIDIA Corp
243	Innovative Technology
244	EVGA Corp.
245	Johnson Health Tech Co., Ltd
246	Datawind LTD
247	L&S Enterprise Group Corp.
248	Playtime Ltd.
249	SMART Technologies ULC
250	Digital View Inc
251	VGH Computer Services
252	Z-Tech Computers Inc
253	Parsec Computer

List of CEP Manufacturers participating in the Standard Plan 2018*

254	Source Code Corporation
255	Vulcan Electronics
256	Spring Rose Technology Co. LTD
257	Pishon Inc
258	Inspira Technologies LLC
259	SINGREEN INTERNATIONAL CORPORATION LTD
260	Idroid
261	MegaLane Lighting Group Corporation Limited
262	Seasize Technology Co., Ltd.
263	Foneso LLC
264	Andteck
265	SHENZHEN JIACHUANGBO TECHNOLOGY CO.,LTD
266	Csemi Microelectronics Limited
267	Meisheng
268	Shenzhen Wave Multimedia Co., Ltd
269	LALBAY
270	3DFC, LLC dba NEO3DO
271	Runner Shenzhen Digital Technology Co.,
272	N&K Trading, Inc.
273	YONES TOPTECH CHINA CO LTD
274	Shenzhen Buyingeasi Technologies Co., Lt
275	Sunflying International, Inc.
276	ADT LLC dba ADT Security Services
277	Palmer & Axe
278	Shenzhen Luckystar Technology Co., Ltd
279	Digimaxis LLC
280	TUVVA
281	Eluktronics, Inc.
282	American Pumpkins, Inc.
283	Tonik
284	PolaTab
285	Bereson USA
286	Bei er sen Technology Limited
287	DigiLand Products
288	Shenzhen Haina Tianyuan Ecommerce Co., Ltd.
289	AWA Technology Inc.
290	GAEMS, Inc.
291	Jide Technology Ltd.
292	Tinamy Trade LLC
293	Computer King Technology Corp.
294	Atron Vision
295	Lenoge Technology Limited .
296	Ecost Electronics Ltd.
297	Trans Cosmos America
298	Zingarr Sales & Marketing, LLC

List of CEP Manufacturers participating in the Standard Plan 2018*

299	ZTE USA
300	Cybertron International, Inc
301	Kobo Inc
302	Wintec Industries, Inc.
303	Motion Computing
304	Pyle Audio
305	Kaser Corp.
306	Azend Group Corp
307	QuantumFX
308	ZALMEN REISS & ASSOCIATES INC
309	Matsunichi, Inc.
310	Toys "R" Us-Delaware, Inc.
311	Huawei Device USA, Inc.
312	RJ Technology, Inc
313	Lexibook America
314	Xplore Technologies Corp
315	Azpen Innovation, Inc.
316	Honeywell ACS Division
317	Wikipad, Inc.
318	Sungale Electronics

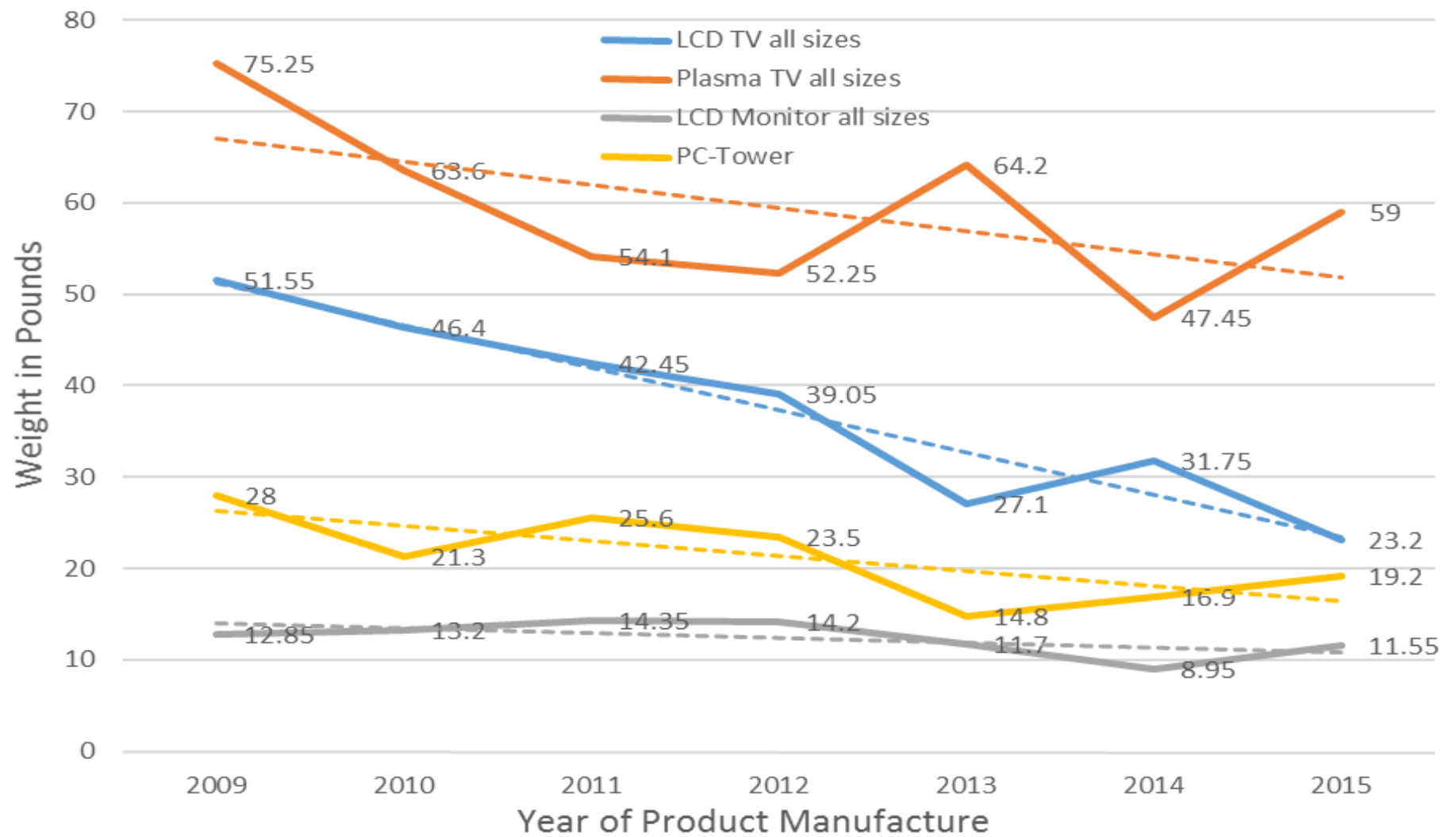
Documentation of work done with direct processors used by the Standard Plan to promote and encourage the design for recycling of new products (CEP's) destined for end of life recycling under this program

Last year we reported that 85% (by weight) of the electronic products collected by the WMMFA (specifically CRT TV's and CRT Monitors) were no longer being manufactured for sale in the US. In 2018 only 70% (weight) or 40% (by unit) of materials collected are no longer being manufactured. In other words public recycling needs are moving rapidly away from CRT to newer flat screen technologies recycling. The charts provided below illustrate the fact that WMMFA collected product "mix" is consistent with manufacturing trends dating several years back. While member manufacturers have been successful in reducing the weights of covered electronic products significantly many challenges remain in the recycling of newer products, especially flat screen technologies such as Plasma, LCD, and LED monitors and televisions. For this reason the WMMFA has implemented a collaborative approach between registered processors and our member manufacturers.

Effective beginning with the 2018 Plan year the authority solicits information on a formal basis from each processor with a request for them to identify obstacles, concerns, constraints, and risks associated with the dismantling, recycling, and ultimate disposition of products most prevalent within the collection stream. In prior years the focus was on CRT products as historically they comprised over 85% of the volume collected by weight. CRT products still make up the majority of pounds collected however, as illustrated below, flat panel products have nearly caught up on a unit basis and are gaining on a per pound basis.

The results of each annual survey (2018 survey summary shown below) will be discussed and shared with the WMMFA board at each March regularly scheduled board meeting. Based on discussions any follow up items for the processors will be addressed at subsequent meetings as an agenda item.

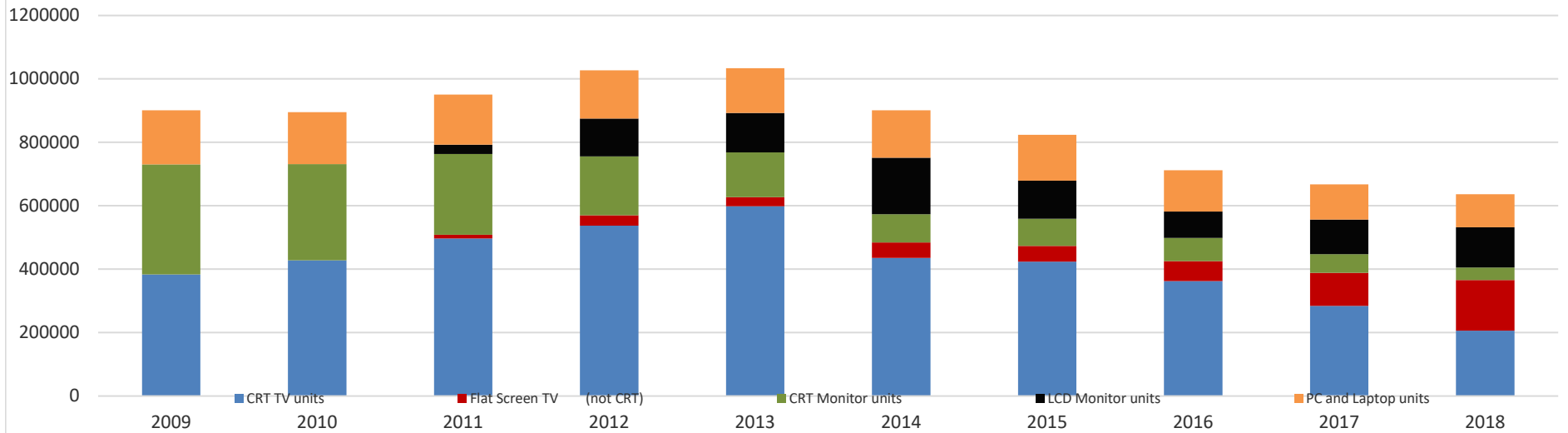
Average weight of newly manufactured covered electronic products



WMMFA collected POUNDS by type by year comparison



WMMFA collected UNITS by type by year comparison





SURVEY COMPILATION

WMMFA Processors Summary of responses – September 2018

The WMMFA is interested in collaborating with, and coordinating communications among, contracted processors and member manufacturers of the Authority's recycling plan in reference to CEP (covered electronic products) design. The goal of our DfR process will be to increase the potential for higher volumes of reuse materials and **more efficient handling and disposition of end of life materials gleaned from the recycling process**. WMMFA member manufacturers would like to get feedback from processors, such as yourself, as to what could be done to make their products easier to recycle at end of life with less waste.

Please help by completing the survey questions below and return the completed form to the WMMFA by Friday, October 19th. Your responses to the survey and participation in this project are voluntary. Suggestions gleaned from survey responses will be shared anonymously with the WMMFA board of directors and member manufacturers of the WMMFA. Specific responses by processor or manufacturer are confidential.

1. What are the top 3 barriers to improved processing production efficiency in processing CEP's? (TV, Monitor, PC, Laptop, tablets, readers) Include constraints identified by downstream vendors, if known. (use extra page if necessary). **Information on LCD, LED and flat screen technology specifically** (CRT products are no longer being manufactured)
 1. The usage of too much glue specially on LED TV's and or in LCD and LED Monitors and high labor costs to dismantle without shredder.
 2. The usage of many different kind of screws. Standardizing the type or kind screws used, it might help the processing speed and efficiency. If one kind of screw is used on each product it would save much labor cost. Example: Phillip's #2 for PC's, Torx for TV's, and Hex for Monitors. The plastic used for cases of flat screens of lesser value and difficult to find positive downstream recycling value – if any.
 3. Properly identify plastic type. Example: most older units have their plastic type recycle sign on them, but newer electronics rarely have their recycle type. Residuals after dismantle of flat screens have little or no value (mostly labor expense)

2. Which Top 3 “materials of concern” currently used within CEP’s, if revised or eliminated would have the most positive impact on your direct or downstream costs?

Tablets, E-Readers & Portable DVD Players are small and lightweight. There is little opportunity to re-coop the labor to dismantle with rates comparable to other per pound items.

3. The manufacturers are interested in lowering your processing cost of CEP’s. From your standpoint what would need to be done to allow this to happen? Please include any components of the current logistics/handling operations or CEP assembly details - as well as other processing operations that would impact your costs – positively. (use separate page if necessary)

- Standardizing the screws used on all electronics, if not, as many as possible.
- Usage of only 1 kind of screws on any particular electronic, or if there is a need for multiple screws on a component, try to use same kind but no more than 2 screws that are different in size.
- Reduce or remove the glue on electronics and use either clips or screws.
- Pre-sort by collectors into various packaging units by technology. LCD separate from LED separated from CR, etc.

4. Would your organization be interested in participating in quarterly conference calls with representatives of other processors and leading manufacturers to discuss practical design revisions and other joint efforts that could result in better DfR, the outcome of which would be to reduce the amount of environmentally sensitive parts within CEPs and reduced cost for manufacturers and processors?

☐ Yes

☐ No

☐ Not Sure – Please contact me to discuss.

Re-use information -2018

Based on feedback from our network of collectors typically involved in refurbishment and/or resale of used electronics the ratio of reused to recycled products varies considerably by type of collector, and, type of product. Many of our non-profit collectors perform some refurbishing and reuse operations on higher value devices as an alternative to submitting to this program for recycling. The volume of covered electronics put into reuse is declining year to year due to several factors including the obsolescence of CRT products given the cost and quality of their flat screen replacements and the low retail prices of new technology LCD, LED, and computing products available. Since the E-Cycle Washington program was designed primarily as an end of life program for unwanted electronics many of our collectors focus on getting CEP's to the program for responsible recycling of contents due to the low sales value of refurbished equipment in relation to the sales price of new equipment available at main stream or on-line retailers. For 2018 we estimate that a weight equivalent to approximately 108,700 pounds of COMPUTERS (5100 units of laptops and towers combined) were put into reuse by our collectors. This estimate is based upon an approximate 5.0% re-use estimate across all of our collectors on the 8.6% (by weight) of all desktop or laptop product collected. We estimate a negligible amount (nil%) of CRT TELEVISIONS were put to reuse. Of FLAT PANEL TELEVISIONS (plasma, LCD, and LED) we estimate that approximately 3.0% by weight of flat screen TV (115,000 pounds / 4600 units) to reuse with FLAT PANEL MONITORS of 78,600 pounds, or 7,200 units sent to reuse by collectors. CRT MONITOR reuse was negligible (0%). These pounds are NOT included in our collected pounds reports as they are sent to re-use directly by the collectors and therefore not transported or processed within the E-cycle program. None of the WMMFA's direct processors engaged in re-use or refurbishment of end of life products for pounds collected in 2018. Therefore, 100% of reuse and/or refurbishment for resale/reuse was done at the collector level.

NOTE: The Authority has no formal data collection means to obtain re-use volumes from our collectors. In fact, many of them compete for collections from the donating public. For this reason we report with reasonable accuracy, the re-use pounds by product type from our PROCESSING network and we make broad estimates about re-use data at the COLLECTOR level based on the types of products they collect and informal conversations with collectors as to the volume of products being sent to re-use.

The Preferred Processing Standard requires processors for the WMMFA have adequate closure plans and a sufficient financial instrument that assures against abandonment of any CEP's, components, parts, materials or residuals. This section contains a summary of the Financial Closure Plan of each of the WMMFA's contracted processors.

	ACE METAL	EWC GROUP	E-WASTE LLC	SIMON METALS (2 locs)	ERI	URT
CLOSURE PLAN ITEMS:						
Clean up and Engineering labor included	X	X		X	X	X
Maximum CRT inventory on hand identified		X	X	X	X	X
Wood, batteries, lamps pounds estimated	X	X	X	X		X
Transportation computed at reasonable rates	X	X	X			X
Hazardous Materials handling and Disposition addressed		X	X	X	X	X
Downstream contingency plan				X	X	X
Closure Schedule Included				X	X	
Clean up standards outlined and identified				X	X	

CLOSURE COST ESTIMATES:

Material Removal	X	X	X	X	X	X
Transport	X	X	X	Haz Mat Only	Haz Mat only	X
CRT Glas Disposal	X	X	X	X	X	X
Other materials disposal	X	X	X	N/A	N/A	X

FINANCIAL MECHANISM:

Assignment of Account / Time Deposit	Non assigned bank account reserve	Standby Trust	Line of Credit	Irrevocable Standby Letter of Credit	Assurance Bond
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WMMFA Annual Program Revenue and Expenses - 2018

Figures based on "cost" basis: I.E.: Revenue recorded as received and expenses recorded when paid

Compiled accrual based financial statements with a State Accountability Audit will be available mid 2019 (for calendar year 2018 statements)

Program net CEP pounds collected and processed 2018 ----->

25,333,619

Total REVENUE from manufacturer payments to plan - including reserve carry forward from 2017

\$8,191,286

100%

OPERATIONAL Expenses

Total COLLECTION EXPENSES - payments to registered collectors and for CEP materials from "covered" events

\$2,169,152

27.7%

Total TRANSPORTATION EXPENSES - purchased from registered transporters and paid to collectors that transport

\$1,146,497

14.6%

Total NET PROCESSING EXPENSES - payments to registered processors

\$4,192,001

53.4%

Public OUTREACH including advertising, educational and promotional efforts

\$21,130

0.3%

TOTAL OPERATIONAL DIRECT and SERVICE PROVIDER EXPENSES

\$7,528,780

96.0%

ADMINISTRATIVE Expenses

Salaries and wages, including payroll taxes

\$267,257

3.41%

Professional services: legal and accounting

\$19,242

0.25%

Rent expense

\$4,200

0.05%

Travel expenses - board and employees

\$8,433

0.11%

Office supplies

\$2,405

0.031%

Insurance expense

\$4,417

0.06%

Telephone and internet expenses

\$4,791

0.061%

Meetings and seminars

\$1,045

0.013%

Postage and delivery

\$1,771

0.023%

Office hardware and IT equipment

\$374

0.005%

Utilities

\$474

0.006%

Bank service charges

\$1,548

0.020%

Miscellaneous

\$0

0.000%

TOTAL ADMINISTRATIVE EXPENSES

\$315,957

4.0%

Total Administrative and Operational EXPENSES

\$7,844,737

100.0%

***NET Reserves to carry forward to 2019 and/or available as credit to manufacturers on future invoices**

\$346,549

4.2%

* Standard Plan finance policy requires reserves to be maintained between 9% and 20% of quarterly manufacturer share expenses

Total program cost per pound collected, transported, and processed 2018

\$0.310


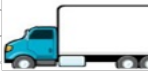

This report was prepared per WAC 173-900-800 and submitted using the template provided by Ecology (converted to workbook) and updated/improved to include additional information required by SHB 1498 passed in 2013. The information within this report/workbook was compiled using sources available to the WMMFA including actual and estimated data from service providers to the WMMFA as outlined in the Standard Plan.

Submitted electronically on February 28, 2018 to Christine Haun at Christine.Haun@ecy.wa.gov

Authorized signor WMMFA
John Friedrich, Executive Director

A handwritten signature in black ink, appearing to read "John Friedrich". The signature is written in a cursive, flowing style with a large initial "J" and "F".

The analysis presented below is an excerpt from the WMMFA's approved Standard Plan that describes the process involved in determining collected CEP volume allocation among participating processors

WMMFA Volume Assignment Decision Matrix: Average				
PROCESSOR ---->		A	B	C
AVERAGE LOAD COMPOSITION:	Load make up Average	QUOTED COST PER POUND:		
CRT TV	70%	\$0.15	\$0.18	\$0.19
LCD + Plasma TV	9%	\$0.20	\$0.17	\$0.19
Computers Laptops	8%	-\$0.12	-\$0.05	-\$0.19
CRT Monitors	4%	\$0.15	\$0.18	\$0.19
LCD Monitors	7%	\$0.20	\$0.17	\$0.19
Large (wood) TV	2%	\$0.15	\$0.18	\$0.19
Weighted average cost per pound PROCESSING only based on average load ---->	100%	\$0.135	\$0.153	\$0.175
Transport cost from collector to Processor -->		A	B	C
Transport cost from Eastern WA		\$0.07	\$0.06	\$0.03
Processing + Transport cost		\$0.21	\$0.21	\$0.20
Transport cost from SW WA		\$0.10	\$0.07	\$0.02
Processing + Transport cost		\$0.24	\$0.22	\$0.19
Transport cost from Metro SEA WA		\$0.05	\$0.02	\$0.02
Processing + Transport cost		\$0.19	\$0.17	\$0.19
WMMFA Volume Assignment Decision Matrix: Specific				
		Trailer load CEP mix Spokane	Trailer load CEP mix Bellingham	Trailer load CEP mix Seattle
				
		•16% Computer •8% CRT Monitor •57% CRT TV •14% LCD TV •5% LCD Monitor	•10% Flat Screen •20% Computer •10% Monitor •60% TV	•0% Computer •10% Monitor •90% TV
STANDARD PLAN REFERENCE ITEMS *				
Environmental				
Competitive Rates				
Creativity				
Capacity: Transporter & Processor				
Proximity to collector				
Auxiliary services: Transportation				
Billing Accuracy Timeliness				
Existing Infrastructure				
Fairness per RCW and WAC				
DECISION				
PROCESSOR ----->		A	B	C
Processor LOCATION		NW WA	CW WA	SW WA
SPECIFIC LOAD COMPOSITION:	Load make up Specific	QUOTED COST PER POUND:		
CRT TV	57%	0.15	0.1795	0.19
LCD + Plasma TV	14%	0.2	0.165	0.19
Computers Laptops	16%	(0.12)	(0.05)	(0.19)
CRT Monitors	8%	0.15	0.1795	0.19
LCD Monitors	5%	0.2	0.1675	0.19
Large (wood) TV	0%	0.15	0.1795	0.19
Weighted average cost per pound PROCESSING based on specific load ---->	100%	\$0.116	\$0.153	\$0.175
Transport cost from Eastern WA		\$0.07	\$0.06	\$0.03
Processing + Transport cost		\$0.19	\$0.21	\$0.20
Highlighted (Yellow) = lowest cost option, which, as illustrated is not always the decision made				

***Expanded Detail: E-Cycle Washington as managed by the WMMFA promotes Re-use and Recycling as a priority as evidenced by all Processors commitment to the "preferred" processing standards**

Environmental		Are there any red flags in audit - how important are they ?			
		What is current inventory of materials requiring processing, and is it low or high in comparison to others ?			
		Does processor have reasonable assurance from downstream vendors as to ultimate disposition? Audits?			
		What is the perceived RISK to the WMMFA of using processor? Are they in good standing in their communities?			
		Considerations: Insurance, Litigation, Capital, Capacity, Expertise, Experience			
Competitive Rates		Rates by commodity make sense in comparison to freely bid rates by others, or suggested rates based on market conditions ?			
		Does processor transport in their proximity that would allow lower overall rate or better value ?			
		Has processor justified rates via quality of downstream vendors destinations ?			
Creativity		Does the processor use truck, ocean vessel, or train for lower environmental impact and expense ?			
		Does the processor use local vendors to save cost / environmental impact ?			
		Does the processor have multiple options in order to sustain plan compliance ?			
		Does the processor seem knowledgeable and have expertise in their field?			
		Are their quality differences, perceived or real, of processors - by collectors that result in collector "requests" to use a certain processor ?			
		Does the Processor have a "re-use" component to their business ?			
		How much of the total weight of materials provided the processor is landfilled ?			
		Does the processor engage in public collection events coordinated by them ?			
Capacity: Transporter & Processor		Does the processor require volume corrections (plus or minus) from the authority due to their own operational or staffing issues ?			
		Can the processor adjust to downturns and upturns given unpredictable collection volumes by region ?			
		Is the processor easy to work with?			
		Does the processor have enough dock doors and staff to accept multiple deliveries at the same time?			
		Does the processor ever turn away transporters for its own operational convenience?			
		Do collectors or other transporter vendors complain about processors service when receiving?			
		Will transports deliver to the processor for a reasonable rate? Do we incur detention charges?			
Proximity to collector		The higher density of collection sites without self transport = great transport opportunity for processors			
		Location of processor extremely important for both cost (length of transport) and environmental considerations			
		Does proximity of processor trump actual commodity prices via lower transport cost?			
		What is the weighted average processing cost by collector, by processor, and are other constraints (capacity, etc.) hit before this consideration?			
Auxiliary services: Transportation		Can the processor make small and large collector pick ups timely using the correct equipment (liftgate, box truck, semi)?			
		How far, in miles, will a self transporting collector transport his materials, and, at what cost, before the WMMFA moves to use a processor in closer proximity for their (collector) convenience?			
		Can the processor handle mistakes by collectors, transporters, the WMMFA or the public with a reasonable approach?			
		Is the transporter getting sufficient volume from the WMMFA to remain interested in hauling favorable, and unfavorable, transport lanes?			
Billing Accuracy Timeliness		Does the Processor communicate effectively if there are questions or problems?			
		Is the processor timely and accurate with invoices?			
		Is the processor "high maintenance" in terms of WMMFA staff time?			
		Does the processor provide feedback to the Authority when it encounters problems?			
		Does the processor provide enough detail on invoices to identify all relevant recyclable downstreams by commodity type?			
		Do processors invoiced weights match collectors estimated or actual weights where applicable?			
		Is the processor responsive with informational requests?			
Existing Infrastructure		Is the processor establishing operational plans that take business from an existing vendor with no value added?			
		Are there competing services to what the processor offers that are a better value given any duplication of effort?			
Fairness per RCW and WAC		RCW			
		Is re-use or recycling the first option	70.95N.030 (3)		
		Is the business located in the State?	70.95N.060 (5)I,ii,iii		
		Are all registered processors being u	70.95N.280		
		Is the processor innovative?	70.95N.280 (7)		
		Does the authority avoid the creatio	70.95N.310 (2)		
		Is the authority following policy per	70.95N.320 (4)		
			WAC		
		Is the processor listed as in complan	173-900-300 (4)bii		
		Is the processor in compliance with	173-900-300 (4)bii		