## Construction & Demolition Materials Recovery on the Jobsite and Tracking Results

presented to

2011 DOE Project Management Workshop (March 15-16, 2011)

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Turner Construction Company



#### Turner Green Building Experience

#### **Since 2000**

- 550 Projects Completed or Under Construction
- \$26 Billion Project Volume
- 96 Million Square Feet LEED Space
- 191 LEED Certified Projects (42.9 msf) (47 in 2010)
- 233 LEED Registered Projects (53.8 msf) (65 in 2010)
- 1200 LEED Accredited Professionals
- Half of Turner's Sales in 2009 and 2010 Were Green
- ENR #1 Green Contractor 2007, 2008, 2009



## LEED WIP by Market Sector

SECTOR	2007	2008	2009	2010
(#1) Commercial Office	\$481	\$699	\$463	\$ 303
(#1) Education	\$564	\$870	\$997	\$1157
(#1) Healthcare	\$262	\$663	\$933	\$1106
(#3) Government	\$184	\$400	\$335	\$ 393



### The Waste Tracking Challenge

Improve response, increase efficiency

- Hauler-centric
- On-line
- Automatic summary reporting
- Automatic notification throughout
- Real time data entry
- Embedded calculators
- Easier for all



#### What OWT can do

- Sort by material type and quantity, project type, location, size or hauler.
- Compare results of different haulers within one business unit or one hauler across several business units.
- Compare various regions of the country against each other for total recycling percentages or for ability to recycle a particular material.
- Compare projects by type, size or location.
- OWT fully complies with LEED reporting requirements.



#### Results to date

- Since 2005 we have documented the diversion of over 650,000 tons of waste from landfills.
- Our goal was a 50% diversion rate overall.
- Our reported overall diversion rate since 2005 is 73%.
- We typically receive reports from 75% of projects in construction each month (150 – 180 projects each month, over 400 discreet projects each year).



#### Future Goals

- Use data to benchmark current market performance. Then we can define performance "beyond business as usual" in terms of carbon emissions avoidance and (perhaps) monetize emissions reductions.
- Identify opportunities to eliminate waste by design, creating further emissions avoidance.
- Analyze the current state and potential of various markets in order to spur market development.



#### Why?

- Share data among interested parties for our mutual benefit.
- Use information to draw better conclusions about future actions.
- Agree on common metrics and standards so data can be aggregated to produce more meaningful information.



# The Contractor's Perspective



#### What We Care About:

- Competitive Price
- Maximize diversion
- Accurate and Timely Reporting

#### Why We Care:

- It's the right thing to do
- It fulfills our environmental commitment
- Our clients demand it



#### What We Want

- Verifiable data including chain of custody
- On site and off site separation capabilities employ "hybrid" if possible for maximum diversion
- Rebates for high value waste streams (metal, etc)
- High degree of recycling (75% +) w/o cost premium
- Accurate report for MY job not facility averages



## What should agencies ask for when dealing with GCs to implement EO 13514?

- Experience
- A simple, project specific waste management plan
- Periodic reports (typically monthly)
- Project specific data (project info, material types, weight or volume, final destination, % recycled)
- Onsite verification / "reality check" by GC/CM
- Consider 3<sup>rd</sup> party verification of facilities



## Rule #1 – What Gets Measured Gets Managed

 Ask for the data, it usually exists. If it doesn't, use someone else.



#### Rule #2 - All Waste is Local

- The ability to recycle is more dependent on the underlying market capacity that the efforts of any individual company.
- If there is no local market for recycled materials the best intentions will do little good.
- It is in your interest to develop the local market.



#### Rule #3 - Trust but Verify

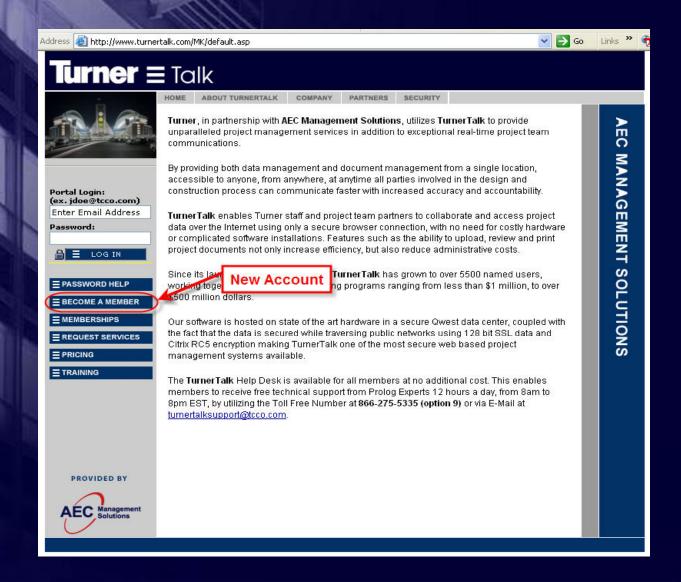
- If it sounds too good to be true it probably is. Visit the facility – see what they do and how they do it.
- Talk to competitors. You can tell a lot about overall market performance if you talk to all the players.
- (In this regard, an independent 3<sup>rd</sup> party certification would be very beneficial).



## How the system works

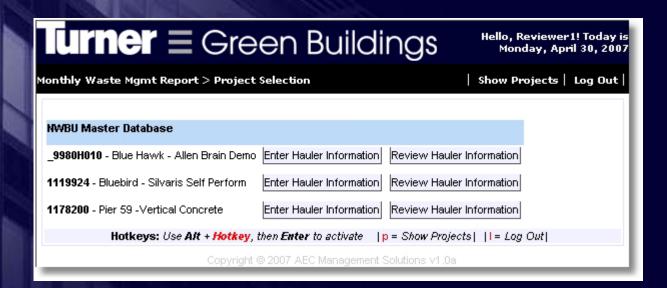


#### www.TurnerTalk.com





### List of Projects



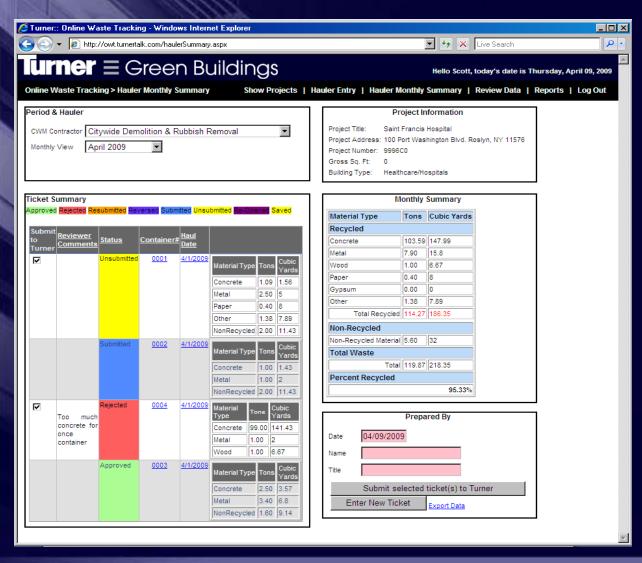


## Ticket Entry Page

Turner:: Onlin	e Waste Tracking	g - Window	s Internet Explorer		_ 🗆 ×
<b>(}</b> ⊕ <b>√</b> [€	http://owt.turnertalk	c.com/hauler	Entry.aspx	Live Search	<b>P</b> -
Turne	<b>r</b> $\equiv$ G	reer	n Buildings	Hello Scott, today's date is Wednesda	y, May 13, 2009
	racking > Hauler		_	Hauler Monthly Summary   Review Data   Reports	
Ticket Overviev				Project Information	7
CWM Contractor Ticket/Container Haul Date Unit of Measure	# 0001 04/01/2009	olition & R	ubbish Removal	Project Title: Saint Francis Hospital Project Address: 100 Port Washington Blvd. Roslyn, NY 11576 Project Number: 9996C0 Gross Sq. Ft: 0 Building Type: Healthcare/Hospitals	,
			Ticket Details	Comments	
				Comments:	
Convert to (CuYd)	Material	Quantity (Tons)	Final Destination		
Recycled					
1.56	Concrete/Masonry	1.09	Criminy Concrete, Bergen NJ	▼	
5	Metal	2.5	Martin's Metal and Studs	<b>\rightarrow</b>	
0	Wood	0	Select	V	
8	Paper	0.4	Pickett Paper Products	▼	
0	Gypsum	0	Select	▼	
7.89		1.38	DOT, State of NJ		
Non-Recycled	Total Recycled	5.37			
12	Non-Recycled Material	2.1	BFI Landfill in Ommegana, OH	V	
	Total Non- Recycled	2.10			
Total Waste		7.47 Tons		34.45 CuYd Percent Recycled 71.89	%
		View Mont	hly Summary Save	Clear	▽

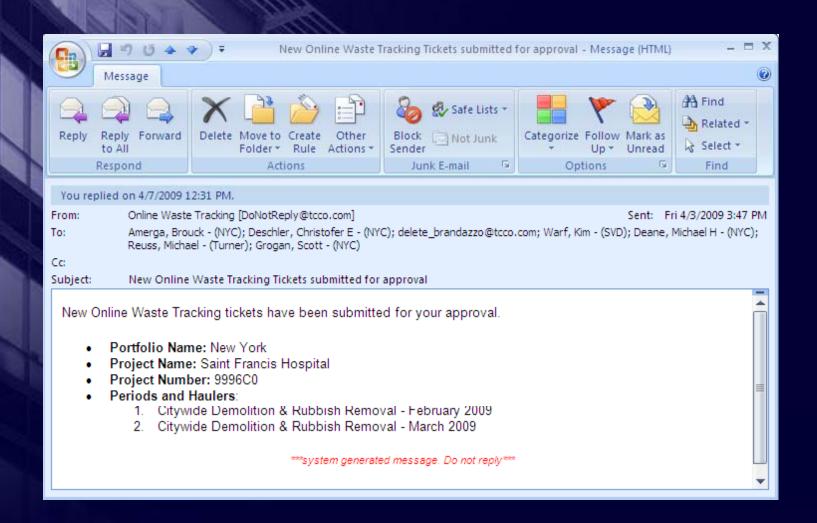


#### Hauler Summary Page



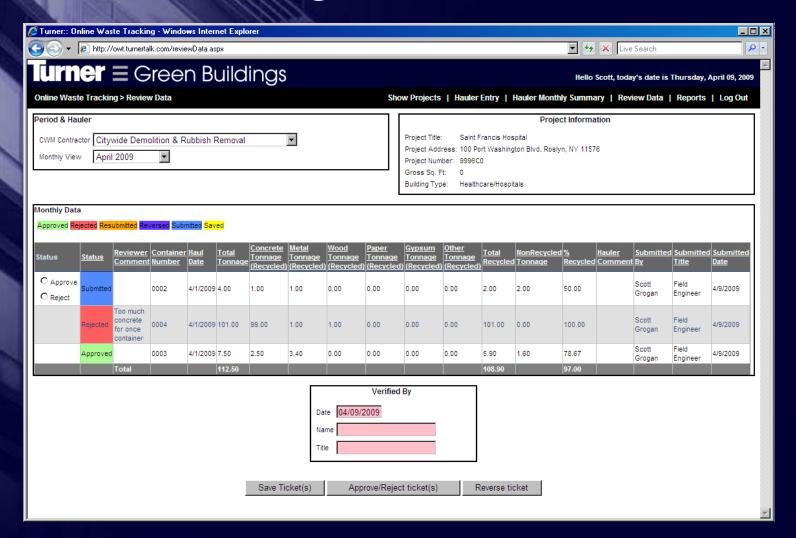


#### Automatic Email to Jobsite Staff



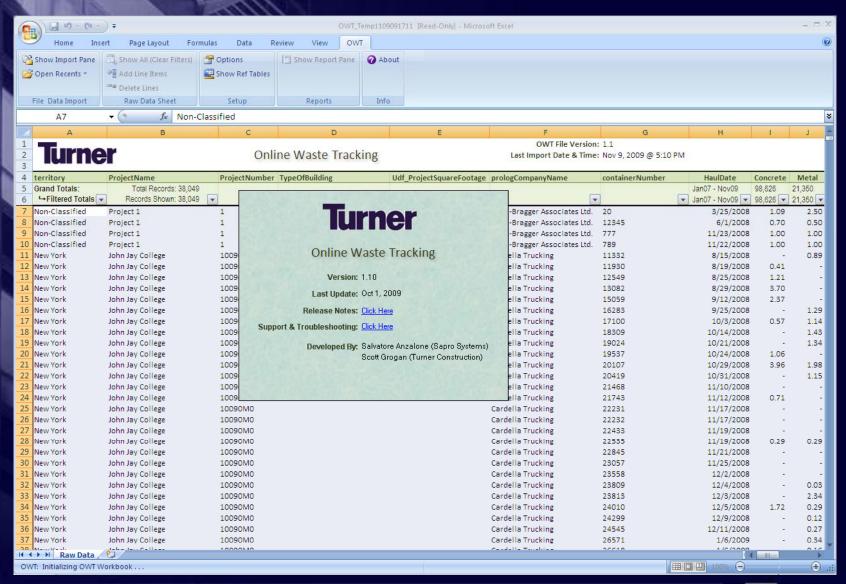


#### Reviewer Page





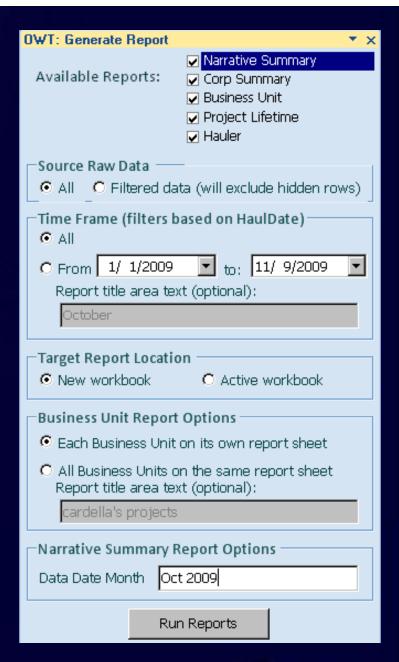
#### **OWT Report Generator**





### Types of Reports:

- Narrative Summary
- Corporate Summary
- Business Unit Report
- Project Lifetime Report
- Hauler Report





### Narrative Summary

#### Online Waste Tracking - Narrative Summary Report

#### **Turner**

#### Run Date: Nov 9, 2009

#### ▶ Sep 2009

For the month of Sep 2009 Turner Construction Company reported on 154 projects in 34 business units. Nationally we reported disposal of a total of 11,294 tons of construction and demolition waste, of which 9,092 tons were diverted from land fills, yielding a total waste diversion percentage of 80.5%.

Diverted materials included 3,310 tons of concrete, 1,385 tons of metal, 1,348 tons of wood, 253 tons of paper/cardboard, 642 tons of gypsum, and 2,154 tons of other material. For this period the total landfill (non-recycled) amount was 2,202 tons.

In Sep, of the 154 projects reporting, 143 projects (92.9%) diverted some waste from landfills. The remaining 11 projects (7.1%) diverted no waste.

#### ► 2009 Year to date

From January through Sep 2009, a total of 284 projects in 41 business units have reported waste management activity for one or more months. Nationally we have reported disposal of 110,102 tons of construction and demolition waste, of which 86,298 tons were diverted from landfills, yielding a total waste diversion percentage of 78.4%.

Diverted material included 37,000 tons of concrete, 10,071 tons of metal, 13,478 tons of wood, 2,792 tons of paper/cardboard, 5,307 tons of gypsum, and 17,651 tons of other material. A total of 23,804 tons of residual waste were sent to land fills.

Please note: These results may not accurately reflect overall company performance for all projects, as not all active projects are reporting. Actual overall diversion rates may be better or worse than reported. Results from prior months sometimes change as new information is reported. Year to date data reflect updated information from jobsites for prior months.



## Corporate Summary

Turner	Onli	ne Wa	ste T	racki	ng - Co	rporate	e Summ	nary Re	port		Da	Run Date:	•	
Business Unit	•	р.	_:				D	-1-4 T-						Decemb
	Hauler	_	ojects /Rondin	_		Manal		cled To		Oshaa	Tesel	Han-Rengaled	Total	Percent
Project Name	Hauler				Conserve	Metal			Gyprum	Other	Total	Tonnage	Tonnage	
34 Bus. Units and 154 Projects		143	<i>l</i> 154	7 0	3,383.5	1,385.4	1,547.7	252.9	642.3	2,159.7	3,831.5	2,202.2	11,293.8	81%
► Atlanta		4	15	NA	82.3	15.2	38.6	-	-	141.7	277.8	246.9	524.7	53%
► Doston		12	ł 12	NA	25.2	12.5	74.4	5.0	7.1	111.0	206.0	55.0	291.0	01%
► Carolinas		3	13	NA	127.4	22.5	29.8	2.1	4.9	-	186.8	29.0	215.8	87%
► Charlotte		1	7.1	NA	7.3	25.2	11.8	-	53.7	-	98.0	28.1	126.1	78%
► Chicago		8	18	NA	23.7	47.7	68.5	15.0	9.1	44.9	208.8	24.8	233.5	89%
► Cincinnati		12	ł 12	NA	746.9	34.0	46.3	4.9	-	3.6	835.7	89.1	924.7	90%
► Cleveland		0	7.1	NA	-	-	-	-	-	-	-	32.9	32.9	0%
► Connecticut		9	19	NA	132.1	63.6	76.0	29.8	-	1,061.0	1,362.5	203.6	1,566.1	87%
► Dallas		2	7.4	NA	-	-	5.7	-	6.4	-	12.1	103.9	116.1	10%
► Denver		2	13	NA	78.8	-	-	-	-	-	78.8	37.9	116.7	68%
1598000 Erie Community Park	Allied Waste Services				-	-	-	-	-	-	-	7.8	7.8	0%
1603000 General Dynamics IT NOC					2.0	-	-	-	-	-	2.0	4.2	6.2	32%
1583600 Sprouts Centennial Site ar	Allied Waste Services				76.8	-	-	-			76.8	25.9	102.7	75%
► Detroit		3	13	NA	2.3	0.8	3.4	1.9	5.5	7.4	21.2	3.4	24.6	86%
► Houston		1	7.1	NA	22.7	-	13.3	-	-	0.6	36.6	18.4	55.0	67%
► Huntsville		1	7.1	NA	36.7	52.4	57.2	10.7	26.2	26.0	209.1	9.1	218.2	96%
► Indianapolis		1	7.1	NA	-	1.8	-	-	3.3	-	5.1	37.7	42.8	12%
► Los Angeles		2	12	NA	2.2	3.6	7.7	-	1.2	31.1	45.8	13.8	59.6	77%
► Miami		3	13	NA	199.5	50.5	125.0	10.5	-	-	385.5	54.4	439.9	88%
► Nashville		2	12	NA	42.5	31.0	3.5	1.6	-	128.1	206.7	53.9	260.6	79%
► New York		13	ł 13	NA	210.0	81.4	182.9	52.6	68.3	1.3	596.4	120.9	717.3	83%
► New York - Interiors		15	ł 15	NA	106.3	85.9	43.8	16.8	24.2	6.9	283.9	32.7	316.6	90%
► Non-Classified		1	71	NA	14.9	0.3	9.6	-	-	3.1	27.8	17.9	45.7	61%
► Oakland		1	71	NA	-	-	44.9	-	-	68.3	113.2	-	113.2	100%
► Orlando		0	/1	NA	-	-	-	-		-	-	5.3	5.3	0%
► Philadelphia		3	14	NA	13.9	35.1	49.3	14.4	73.1	90.2	276.1	176.6	452.7	61%
► Phoenix		1	12	NA	-	1.G		-	-	-	1.6	11.6	10.2	12%
▶ Pittsburgh		2	13	NA	3.1	2.8	5.4	-	5.6	2.3	19.2	37.8	57.0	34%
► Portland		1	/1	NA	-	5.5	8.0	2.1	-	2.2	17.8	3.3	21.1	84%
► Sacramento		5	15	NA	-	16.9	22.1	8.6	23.3	22.6	93.5	41.1	134.5	69%
► San Diego		3	13	NA	440.1	-	-	-	7.1	93.1	540.3	145.9	686.2	79%
► San Jose		4	14	NA	33.3	11.9	31.7	4.6	4.8	8.7	94.9	8.7	103.6	92%
► Seattle		6	16	NA	647.5	49.5	13.4	-	41.9	200.7	952.9	29.1	982.0	97%
► SoCal		4	15	NA	24.0	5.1	29.1	5.8	3.7	59.2	127.0	130.4	257.3	49%
► Somerset		7	17	NA	28.8	10.0	45.6	7.3	58.1	0.3	149.9	88.4	238.3	63%
► Tompkins Builders		5	15	NA	213.5	147.6	270.4	51.8	186.4 28.6	28.1	897.8 692.9	254.5	1,152.3	78% 92%
► Vashington DC		6	17	NA	44.6	571.4	30.4	6.4	28.6	11.5	692.9	56.3	749.2	92%



### **Business Unit Report**

#### **Turner**

Online Waste Tracking - Business Unit Report

Run Date: Nov 9, 2009

Chicago	Prior Years						200	9 Tonn	age						
Project Info Category	Tonnage	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2009	Grand Total
Totals Total Recycled	8,870	683	320	320	226	119	143	217	127	209	146	-	-	2,509	11,379
Non-Recycled	882	75	61	58	46	30	28	38	28	25	16	-		405	1,286
Recycled + Non-Recycled	9,752	758	381	378	272	149	171	255	155	234	162	-		2,914	12,666
Percent Recycled	91.0%	90.1%	84.1%	84.7%	83.1%	80.1%	83.5%	85.0%	82.0%	89.4%	90.0%	-		86.1%	89.8%
► CH1 Northlake Data Center															
Non-Recycled	231.9	29.5	20.2	16.0	13.3	5.0	7.2	9.7	4.2	1.8	-	-		106.8	338.7
Subtotal Recycled + Non-Recycled	2,602.0	77.7	92.6	66.7	47.0	28.3	54.4	74.3	37.1	22.9	-	-		500.9	3,102.8
Percent Recycled	91.1%	62.0%	78.2%	76.1%	71.7%	82.3%	86.8%	87.0%	88.7%	92.1%	-	-		78.7%	89.1%
► Wheaton College															
Non-Recycled	3.6	0.5	0.7	1.2	2.9	5.8	4.7	2.9	11.8	7.4	-	-		37.9	41.5
Subtotal Recycled + Non-Recycled	22.1	4.7	1.9	7.6	9.4	20.7	36.5	29.5	49.0	59.6	-	-		218.8	240.9
Percent Recycled	83.8%	89.2%	65.1%	84.0%	69.1%	71.9%	87.1%	90.0%	75.9%	87.6%	-	-		82.7%	82.8%
U of C - Edelstone Hall Renovation	n														
Non-Recycled	-	-	-	-	-	-	0.6	0.5	0.2	-	-	-		1.3	1.3
Subtotal Recycled + Non-Recycled	-	-	-	-	-	-	6.4	3.9	3.2	-	-	-		13.5	13.5
Percent Recycled	-	-	-	-	-	-	90.0%	88.0%	93.5%	-	-	-		90.3%	90.3%
► Peregrine															
Non-Recycled	-	-	-	-	-	-	-	1.1	3.1	-	-	-		4.2	4.2
Subtotal Recycled + Non-Recycled	-	-	-	-	-	-	-	12.5	9.1	-	-	-		21.5	21.5
Percent Recycled	-	-	-	-	-	-	-	91.6%	65.5%	-	-	-		80.5%	80.59
<ul> <li>CME Redevelopment Project</li> </ul>															
Non-Recycled	142.0	15.3	2.8	6.1	2.1	-	0.6	-	-	-	-	-		26.9	168.9
Subtotal Recycled + Non-Recycled	4,621.6	406.9	84.9	130.7	42.7	-	3.0	-	-	-	-	-		668.2	5,289.8
Percent Recycled	96.9%	96.2%	96.7%	95.3%	95.0%	-	79.4%	-	-	-	-	-		96.0%	96.8%



## Project Lifetime Report

#### **Turner**

Online Waste Tracking - Project Lifetime Report

Run	Date.	Nov 9	2000

			Project						Rec	ycled Tor	inage			Non-Resputed	Total	Percent
r	lo.	Name	Territory	Building Type	Sq Ft	Hauler	Concrete	Metal	Wood	Paper	Gypsum	Other	Total	Tonnage	Tonnage	Recycled
1	otals for 4	03 Projects:			6,811,357		98,626.0	21,349.#	61,716.9	7,016.7	8,971.4	59,#46.5	257,527.4	50,141.0	307,668.4	84%
	505000	EM Dideser H.O. Osunthause	Obieces	0	4 200 000		40.0								400.5	070
		E.M. Dirksen U.S. Courthouse	Chicago	Courthouses	1 1	labyated Sunsy Suns las.	18.2	71.7	16.8	2.5	5.0	14.0	128.1	4.4	132.5	97%
	3943D0	Fort Knox HRCOE	Huntsville	Public/Other Gov Serv		Groon City Rocycling, LLC	678.6	355.8	443.0	165.5	502.9	207.8	2,353.6	323.9	2,677.5	88%
		CIN SPD Queen City Square G				On Demand Container	32.2	13.0	51.8	3.3	-	1.4	101.7	2.5	104.1	98%
	435000	Fan Pier - Building F	Boston			J. Derenzo Company	2,369.3	700.9	541.1	22.2	145.2	7,230.9	11,009.6	372.2	11,381.8	97%
	307100	Mass General B3C	Boston	Healthcare/Hospitals		Allied Waste Services	23.2	10.0	12.9	1.4	5.9	475.0	528.5	92.1	620.6	85%
		New MTMC	Nashville	Healthcare/Hospitals	•	Waste Management	435.7	267.1	-	4.3	-	1,163.3	1,870.4	553.0	2,423.4	77%
	583100	Harrah's Cherokee Hotel Tower	r Carolinas	Hotel/Resort	•	Owle Container, Inc.	17.1	28.9	24.0	7.1	-	-	77.1	35.9	113.0	68%
1	403400	Evergreen Solar Project	Boston	Mfg/Plants	420,000	Waste Solutions, Inc.	921.6	265.5	883.9	0.2	-	56.9	2,128.0	263.0	2,391.0	89%
1	382000	Harvard's Allston Science Comp	l Boston	HT/Labs/Testing/R&D	270,000	Jet-a-way, Inc.	298.6	41.0	277.5	10.7	-	551.6	1,179.3	159.5	1,338.8	88%
1	257300	BUMC - Building F	Boston		197,000	Charles Grange Tranking Co., Inc.	134.9	63.6	106.5	7.9	51.2	66.1	430.2	175.9	606.1	71%
1	406100	Brazos County Jail Expansion	Houston	Justice/Jails	146,800	We-Rent-It	233.2	9.1	51.8	-	-	10.3	304.3	62.0	366.3	83%
1	4002A0	Genzyme Allston	Boston	HT/Pharm/Biotech Lat	128,310	Charles Grange Tranking Co., Inc.	204.3	26.1	341.7	52.1	-	78.0	702.1	25.7	727.8	96%
1	575200	Deloitte Phase 2A	Boston	Comm/Interiors/Tenan	90,000	Charles Grange Tranking Co., Inc.	4.8	6.4	17.2	1.3	8.4	36.3	74.3	21.5	95.8	78%
1	524200	NCRC - Rowan Cabarrus Com	n Carolinas	Pharma/R&D Lab	67,209	Republic Services, Inc.	56.7	15.0	12.7	0.5	10.5	-	95.5	26.8	122.3	78%
1	557100	Federal Reserve Bank NY 33M	l New York - Interiors	Comm/Interiors/Tenan	60,000	RileWay Internal Remnal Inc	-	-	-	-	-	43.8	43.8	-	43.8	100%
1	554600	Mullen Communications	Boston		60,000	Charles Grange Tranking Co., Inc.	43.9	2.0	15.9	1.6	0.5	28.9	92.7	5.4	98.1	94%
1	590200	Deloitte Phase 2B	Boston		54,000	Charles Grarge Tranking Co., Ion.	2.6	3.0	8.0	0.5	3.5	20.0	37.6	10.9	48.4	78%
1	4202	Seaport Hotel Renovations	Boston		50,000	Charles George Trucking	4.0	3.9	7.6	0.4	2.9	34.2	53.0	21.8	74.9	71%
1	583300	BISD Multi Purpose Athletic Com	Houston	Amuse/Stadiums (Incl	48,800	Triangle Waste	-		10.5		-		10.5	3.5	14.0	75%
1	588400	Chula Vista High School Project	San Diego	Edu/K-12	31,650	Casper Company	1,621.4		-		-	93.5	1,714.9	145.9	1,860.7	92%
1	551200	Deloitte -7th Floor	Boston		29,000	Jet-a-way, Inc.	3.1	5.8	7.3	0.8	_	7.1	24.0	_	24.0	100%
1	517000	BIDMC - Generator Plant #2A	Boston	Healthcare/Hospitals	15,000	Charles Grange Tranking Co., Inc.	3.8	3.2	3.5	0.1	0.7	47.2	58.4	16.5	75.0	78%
1	587300	1700 Broadway Lobby Renova	t New York - Interiors	Comm/Interiors/Tenan		Barrer Barrer and Barrer Company law.	6.5	1.4	1.1	0.6	1.2		10.8	1.7	12.5	87%
	516900	New England Aquarium Marine		Amuse/Aquariums/Zoc	•	Charles Group Tranking Co., Inc.	673.4	49.3	48.7	3.1	20.5	90.3	885.2	58.8	944.0	94%



## Hauler Report

#### **Turner**

Online Waste Tracking - Hauler Report

Run Date: Nov 9, 2009

Boston	Prior Years						200	9 Tonna	age						
Hauler Info Cate	ory Tonnage	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2009	Grand Tota
Totals Total Recy	cled 14,314	373	589	496	512	352	416	406	387	236	-	-	-	3,767	18,08
Non-Recy	ded 785	71	76	64	60	77	72	66	65	55	-	-	-	606	1,39
Recycled + Non-Recy	ded 15,099	443	665	560	572	429	489	472	453	291	-	-		4,373	19,47
Percent Recy	ded 94.8%	84.1%	88.6%	88.6%	89.5%	82.0%	85.2%	86.0%	85.5%	81.1%	-	-		86.1%	92.9
➤ Charles George Trucking															
Non-Recy	cled 37.4	1.7	1.4	-	-	-	-	-	-	-	-	-		3.1	40.
Subtotal Recycled + Non-Recy	ded 155.8	7.8	6.3	-	-	-	-	-	-	-	-	-		14.1	169.
Percent Recy	ded <b>76.0</b> %	78.1%	78.0%	-	-	-	-	-	-	-	-	-		78.0%	76.2
<ul> <li>United Waste Management, Inc</li> </ul>															
Non-Recy	cled -	-	-	-	-	-	12.7	5.2	10.4	13.5	-	-		41.7	41
Subtotal Recycled + Non-Recy	ded -	-	-	-	-	-	79.5	22.5	53.5	67.4	-	-		222.9	222.
Percent Recy	cled -	-	-	-	-	-	84.1%	77.0%	80.5%	80.0%	-	-		81.3%	81.3
<ul> <li>Charles George Trucking Co., In</li> </ul>	C.														
Non-Recy	ded 379.7	55.6	49.3	48.8	44.6	54.2	45.6	36.0	29.5	39.1	-	-		402.6	782
Subtotal Recycled + Non-Recy	ded 2,394.5	280.3	328.5	300.3	355.7	298.5	272.3	302.5	228.4	212.1	-	-		2,578.6	4,973
Percent Recy	ded <b>84.1</b> %	80.2%	85.0%	83.7%	87.5%	81.9%	83.3%	88.1%	87.1%	81.6%	-	-		84.4%	84.3
► Jet-a-way, Inc.															
Non-Recy	ded 79.7	-	10.1	-	5.6	12.3	0.6	8.3	-	-	-	-		36.9	116
Subtotal Recycled + Non-Recy	ded 370.3	43.5	152.0	123.6	92.2	64.0	3.7	36.2	-	-	-	-		515.3	885
Percent Recy	ded <b>78.5</b> %	100.0%	93.4%	100.0%	93.9%	80.8%	82.9%	77.0%	-	-	-	-		92.8%	86.8
Allied Waste Services															
Non-Recy	ded 43.9	6.1	4.2	9.5	7.6	7.2	10.3	16.1	24.3	-	-	-		85.2	129
Subtotal Recycled + Non-Recy	ded 355.4	50.8	117.4	95.9	63.1	48.9	109.5	108.4	164.7	-	-	-		758.7	1,114
Percent Recy	ded <b>87.7</b> %	88.0%	96.4%	90.1%	88.0%	85.3%	90.6%	85.2%	85.2%	-	-	-		88.8%	88.4





Any questions please send me an email Mdeane@tcco.com

