

Casella Waste Systems, Inc.

Investor Meetings

August 2021



Safe Harbor Statement

Certain matters discussed in this presentation, including, but not limited to, the statements regarding our intentions, beliefs or current expectations concerning, among other things, our financial performance; financial condition; operations and services; prospects; growth; strategies; and guidance for fiscal 2020, are “forward-looking statements” intended to qualify for the safe harbors from liability established by the Private Securities Litigation Reform Act of 1995. These forward-looking statements can generally be identified as such by the context of the statements, including words such as “believe,” “expect,” “anticipate,” “plan,” “may,” “would,” “intend,” “estimate,” “will,” “guidance” and other similar expressions, whether in the negative or affirmative. These forward-looking statements are based on current expectations, estimates, forecasts and projections about the industry and markets in which the Company operates and management’s beliefs and assumptions. The Company cannot guarantee that it actually will achieve the financial results, plans, intentions, expectations or guidance disclosed in the forward-looking statements made. Such forward-looking statements, and all phases of the Company’s operations, involve a number of risks and uncertainties, any one or more of which could cause actual results to differ materially from those described in its forward-looking statements.

Such risks and uncertainties include or relate to, among other things, the following: it is challenging to predict the duration and scope of the COVID-19 pandemic and its negative effect on the economy, our operations and financial results; the capping and closure of the Southbridge Landfill and the lawsuit relating to the North Country Landfill could result in material unexpected costs; adverse weather conditions may negatively impact the Company’s revenues and its operating margin; the Company may be unable to increase volumes at its landfills or improve its route profitability; the Company may be unable to reduce costs or increase pricing or volumes sufficiently to achieve estimated Adjusted EBITDA and other targets; landfill operations and permit status may be affected by factors outside the Company’s control; the Company may be required to incur capital expenditures in excess of its estimates; the Company’s insurance coverage and self-insurance reserves may be

inadequate to cover all of its significant risk exposures; fluctuations in energy pricing or the commodity pricing of its recyclables may make it more difficult for the Company to predict its results of operations or meet its estimates; the Company may be unable to achieve its acquisition or development targets on favorable pricing or at all; the Company may not be able to successfully integrate acquired businesses; and the Company may incur environmental charges or asset impairments in the future.

There are a number of other important risks and uncertainties that could cause the Company’s actual results to differ materially from those indicated by such forward-looking statements. These additional risks and uncertainties include, without limitation, those detailed in Item 1A, “Risk Factors” in the Company’s most recently filed Form 10-K and in other filings that the Company may make with the Securities and Exchange Commission in the future.

The Company undertakes no obligation to update publicly any forward-looking statements whether as a result of new information, future events or otherwise, except as required by law.



Casella Waste Systems - Overview

Casella provides integrated solid waste, recycling and resource services.

- \$808.3mm of revenues for the 12-months ended 6/30/21.
- Integrated operations located in seven northeast states.
- Emphasis on integrated solid waste and recycling operations including collection, disposal, and Resource Solutions.

Focused on providing customers with waste and resource solutions.

- Waste and resource assets are well positioned in the northeast.
- Robust transfer network allows us to effectively move waste and recyclables to our disposal & processing facilities.
- Provide customers with value-added Resource Solutions services.



Environmental, Social, and Governance (ESG)

Strategic alignment to ESG.

- We take pride in our history of better enabling our customers and the communities we serve to meet sustainability related goals.
- Emphasis on providing safe and sustainable environmental services.
- Founding member of EPA Climate Leaders program in 2005, with a reduction of our Scope 1 and 2 greenhouse gas emissions of -45% from 2005 to 2010.

Focus on enhancing public disclosures.

- In 2020, we filed our 2019 Sustainability Accounting Standards Board (“SASB”) report as well as made a disclosure to the Carbon Disclosure Project (“CDP”).
- ESG-related disclosures and our most recent **Sustainability Report** are located within our 2020-launched ESG Practices website.

ir.casella.com/esg-practices

2030 GOALS

We have established ten sustainability goals for 2030. Every Casella employee has an important role to play in advancing these essential elements of our sustainable growth strategy.



Essential Workers

HEALTH & SAFETY

Improve our safety performance, reducing our Total Recordable Incident Rate (TRIR), a measure of accidents and injuries compared to hours worked

2019	2030
6.2	4.0 OR LESS

ENGAGEMENT

Enhance employee engagement, reducing total employee turnover, including voluntary and involuntary turnover as a percentage of total workforce

2019	2030
36%	25% OR LOWER



Materials Management

RESOURCE SOLUTIONS

Grow our Resource Solutions business to reduce, reuse, or recycle over 2 Million tons of solid waste materials per year by 2030

2019	2030
1,053,114 TONS	2,000,000 TONS

RENEWABLE ENERGY

Double the renewable energy from our facilities, including landfill gas, solar, and geothermal energy from Casella-owned and partner facilities, in MMBTU with a 2019 baseline

2019	2030
733,560 MMBTU	1,454,000 MMBTU



Sustainable Operations

ENVIRONMENTAL COMPLIANCE

Maintain strong environmental compliance, reducing our number of sanctions including notices of violation, enforcement orders, and notices of non-compliance/deficiencies

2019	2030
15	8

FUEL EFFICIENCY

Improve our fuel efficiency, reducing our Gigajoules (GJ) of fuel consumed per ton of waste and recycling collected by 20% below a 2019 baseline

2019	2030
0.495 GJ/TON	0.396 GJ/TON



Climate Leadership

GHG EMISSIONS

Further reduce our carbon footprint, measured in metric tons of carbon dioxide equivalents (CO2e) from scopes 1 and 2 with a 2010 baseline

2019	2030
33% BELOW 2010	40% BELOW 2010

NET CLIMATE BENEFIT

Grow our Net Climate Benefit Factor, which is the sum of the GHG emission benefits of our recycling, renewable energy, and carbon sequestration activities, divided by our Scope 1 and 2 emissions

2019	2030
2.9x	5.0x



Community Engagement

COMMUNITY GIVING

Increase our community giving, including charitable donations, in-kind services, and local community sponsorships

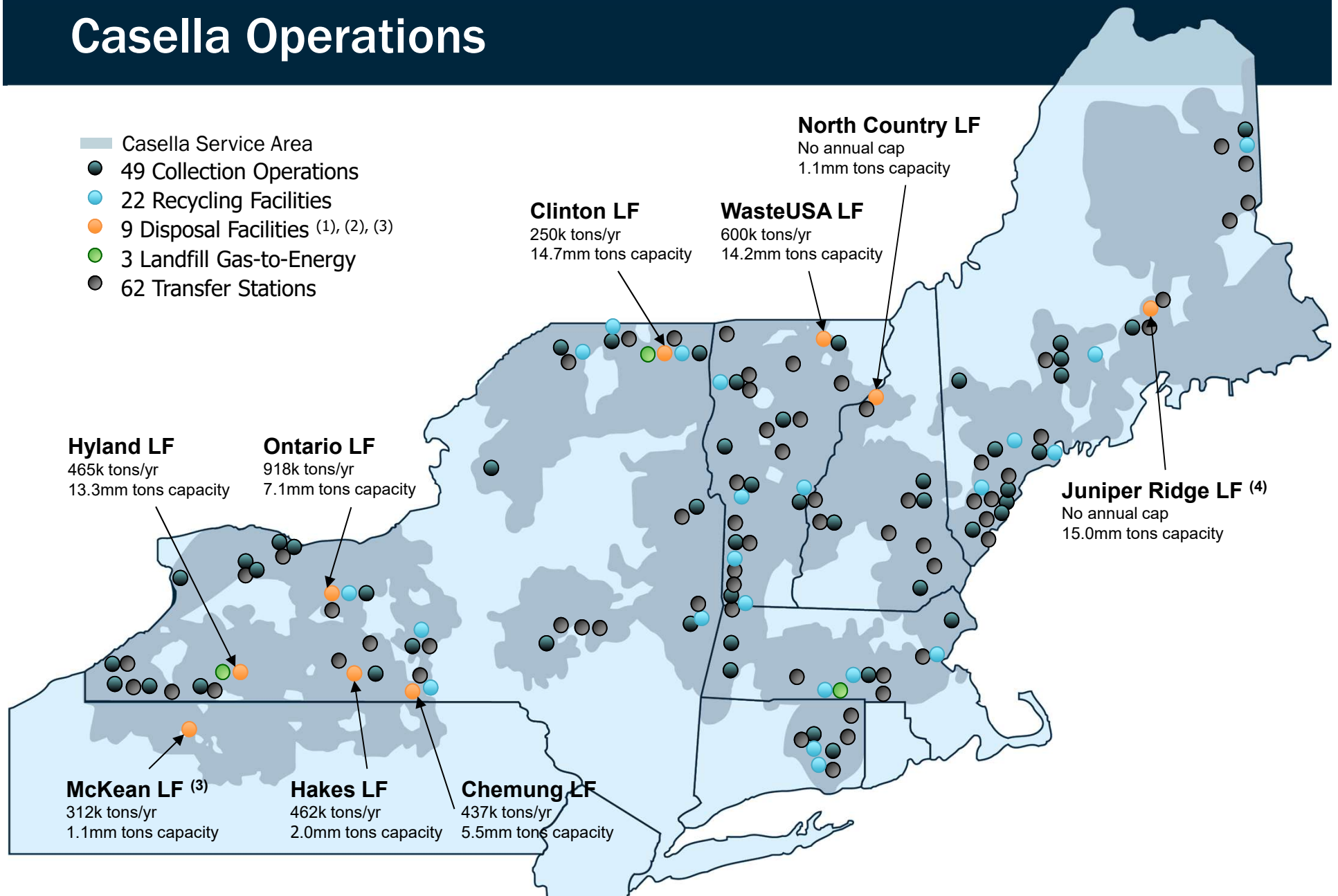
2019	2030
\$1,000,000 ESTIMATED	\$2,000,000

EMPLOYEE VOLUNTEERING

Increase volunteering in our communities, as measured by employee volunteer hours

2019	2030
TRACKING TO BEGIN IN 2021	TARGET TO BE ANNOUNCED IN 2022

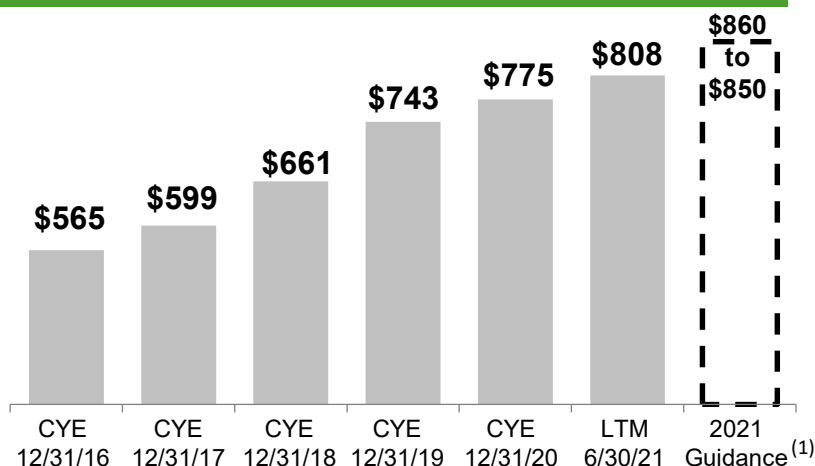
Casella Operations



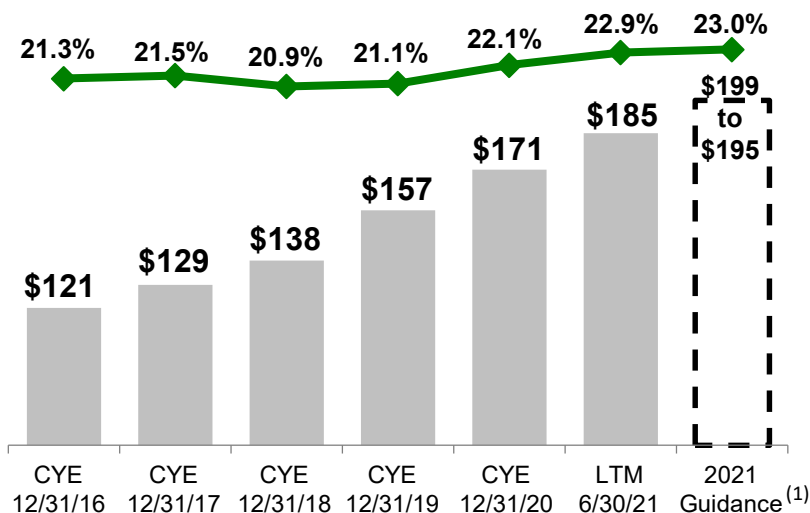
(1) Includes 8 Subtitle D landfills and 1 landfill permitted to accept construction and demolition materials. (2) Total disposal capacity includes permitted and permittable airspace estimates at each site as of 12/31/20; (3) Annual capacity does not include the 1.5mm tons/yr rail permit at McKean LF or 30mm cyds of development capacity;

Results up significantly on strategic execution

Revenue (\$mm)



Adj. EBITDA (\$mm) & Margin⁽²⁾



Solid results for Q2 2021 year-over-year:

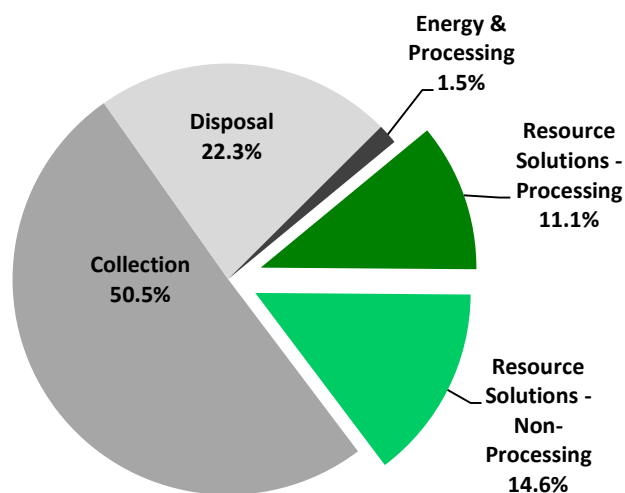
- Solid waste volumes up (+7.1%) YOY primarily due to economic recovery and new sales growth; sequential volume trends improving from Q1 2021.
- Consolidated revenues up +14.4% YOY in Q2 2021.
- Revenue growth driven by +4.0% Solid Waste price, +7.1% Solid Waste volumes, +1.9% acquisitions, and +16.2% Resource Solutions.
- Net Income down (-\$0.3mm) in Q2 2021.
- Adj. EBITDA up +\$8.1mm (or +18.5%) with margins up +84bps in Q2 2021; driven by positive solid waste pricing & volumes, recycling improvement, acquisition activity, and strategic execution.

(1) CY 2021 Guidance as announced on 2/18/21, updated on 4/29/21, and raised on 7/29/21.

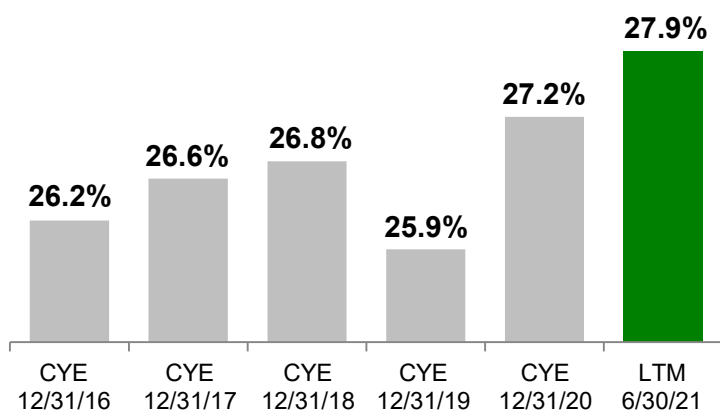
(2) Please refer to the appendix for further information and a reconciliation of Adjusted EBITDA to the most directly comparable GAAP measure, which is Net Income (Loss). Net loss was (\$11.8mm) for the fiscal year ended 12/31/15, (\$6.9mm) for the fiscal year ended 12/31/16, and (\$21.8mm) for the fiscal year ended 12/31/17. Net income was \$6.4mm for the fiscal year ended 12/31/18, \$31.7 for the fiscal year ended 12/31/19, \$91.1mm for the fiscal year ended 12/31/20, and \$94.1mm for the 12-months ended 6/30/21.

Solid Waste operations driving improving margins

LTM 6/30/21 – Revenue Splits



Solid Waste Adjusted EBITDA Margins



~74% revenues in Solid Waste.

- Solid Waste consists of integrated collection, transfer, landfill, energy, and processing services.
- Focus on pricing programs, cost efficiencies, and asset utilization, and acquisitions.
- SW Adj. EBITDA margins up +200bps since 2019.

~26% revenues in Resource Solutions.

- Resource Solutions consists of processing operations such as recycling and organic material processing facilities and non-processing operations such as brokerage and resource management services.
- Recycling business implementation of our SRA Fee, contract resets, and operating efficiencies driving higher margins.

2021 guidance ranges

On 7/29/21, we raised our guidance ranges for revenue, net income, Adjusted EBITDA, net cash provided by operating activities, and Adjusted Free Cash Flow.

	CY 2020 Actuals		CY 2021 Guidance Ranges ⁽¹⁾	
Revenues	\$774.6mm	➔	\$850mm to \$860mm	+9.7% to +11.0%
Net Income ⁽²⁾	\$91.1mm		\$35mm to \$39mm	2020 included reversal of tax valuation allowance
Adjusted EBITDA ⁽³⁾	\$171.4mm	➔	\$195mm to \$199mm	+13.8% to +16.1%
Net Cash Provided by Operating Activities	\$139.9mm		\$158mm to \$162mm	+12.9% to +15.8%
Adjusted Free Cash Flow ⁽⁴⁾	\$69.1mm	➔	\$79mm to \$83mm	+14.3% to +20.1%

(1) CY 2021 Guidance Ranges as announced on 2/18/21, updated on 4/29/21, and raised on 7/29/21.

(2) Net income for the fiscal year ended 12/31/20 includes a \$55.0mm benefit to income taxes due to the reversal of a valuation allowance on the majority of our net operating loss carryforwards and other deferred tax assets. Given this reversal, we now expect an income statement tax provision of approximately 30.5% in fiscal year 2021. However, our cash taxes are expected to remain at approximately \$1.5 million in fiscal year 2021.

(3) Please refer to appendix for a reconciliation of Adjusted EBITDA to the most directly comparable GAAP measure, which is Net income (loss).

(4) Please refer to appendix for a reconciliation of Adjusted Free Cash Flow to the most directly comparable GAAP measure, which is net cash provided by operating activities.

2021 Strategic Plan



Juniper Ridge Landfill

2021 Strategic plan expected to further drive shareholder value

In Aug 2017 we launched 2021 plan that focuses on the following strategies to enhance free cash flow growth, while reducing leverage:

Key Strategies

- 1 Increasing landfill returns
- 2 Driving additional profitability in collection operations
- 3 Creating incremental value through Resource Solutions
- 4 Using technology to drive profitable growth & efficiencies
- 5 Allocating capital to balance delevering with smart growth

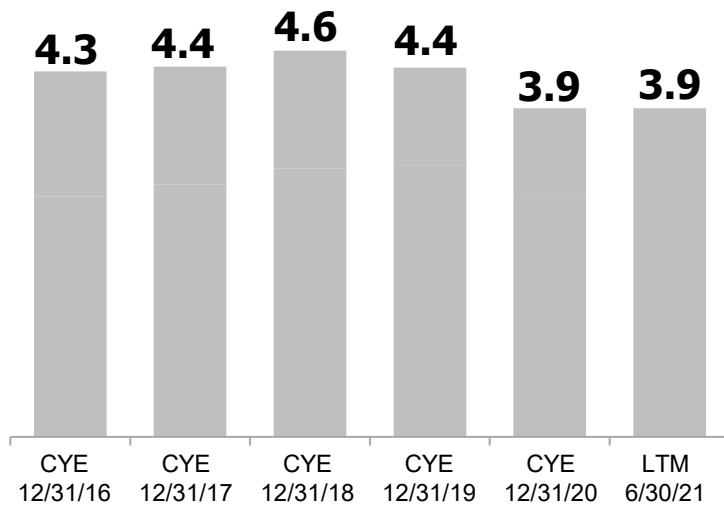
Financial framework

- Organic revenue growth targeted at +3% to +4% per year (including -2% from the closure of Southbridge landfill).
- \$20mm to \$40mm per year of acquisition or development activity. Opportunistic, not budgeted, with strict capital hurdle rates and process.
- Adjusted Free Cash Flow growth of +10% to +15% per year.
- Consolidated Net Leverage targeted between 3.00x and 3.25x.

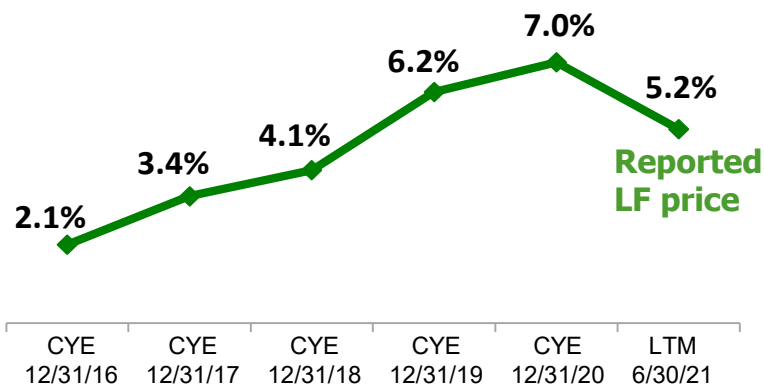
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Increasing landfill returns

Annual Landfill Volumes (mm Tons) ⁽¹⁾



Landfill Price Growth



Landfill Highlights:

- Total disposal capacity ~73.9mm tons.⁽²⁾
- Roughly 0.9mm tons/yr of excess annual permitted capacity at 12/31/20.
- Jan 2016 - Hyland LF annual permit increased by +150k tons/yr.
- Jan 2016 - Ontario LF total permitted capacity increased by +15.7mm cyds.
- Jun 2016 - Chemung LF total permitted capacity increased by +8.2mm cyds and increased the annual permit by 237k tons/yr.
- Jun 2017 - Juniper Ridge LF total permitted capacity increased by +9.4mm cyds.
- Aug 2018 – Clinton LF annual permit increased by +75k tons/yr.
- Jul 2019 – WasteUSA LF total permitted capacity increased by +13.7mm CYDS.
- Dec 2019 – Hakes LF permitted capacity increased by +2.7mm cyds.
- Oct 2020 – North Country LF permitted capacity increased by +1.2mm cyds.

(1) Annual Landfill Disposal Volumes include amortizable and non-amortizable tons.

(2) Includes both permitted and permissible airspace at landfills as of 12/31/20; does not include 30mm cyds of capacity at McKean landfill.

Strategy capitalizes on improving market and asset positioning to further improve landfill returns.

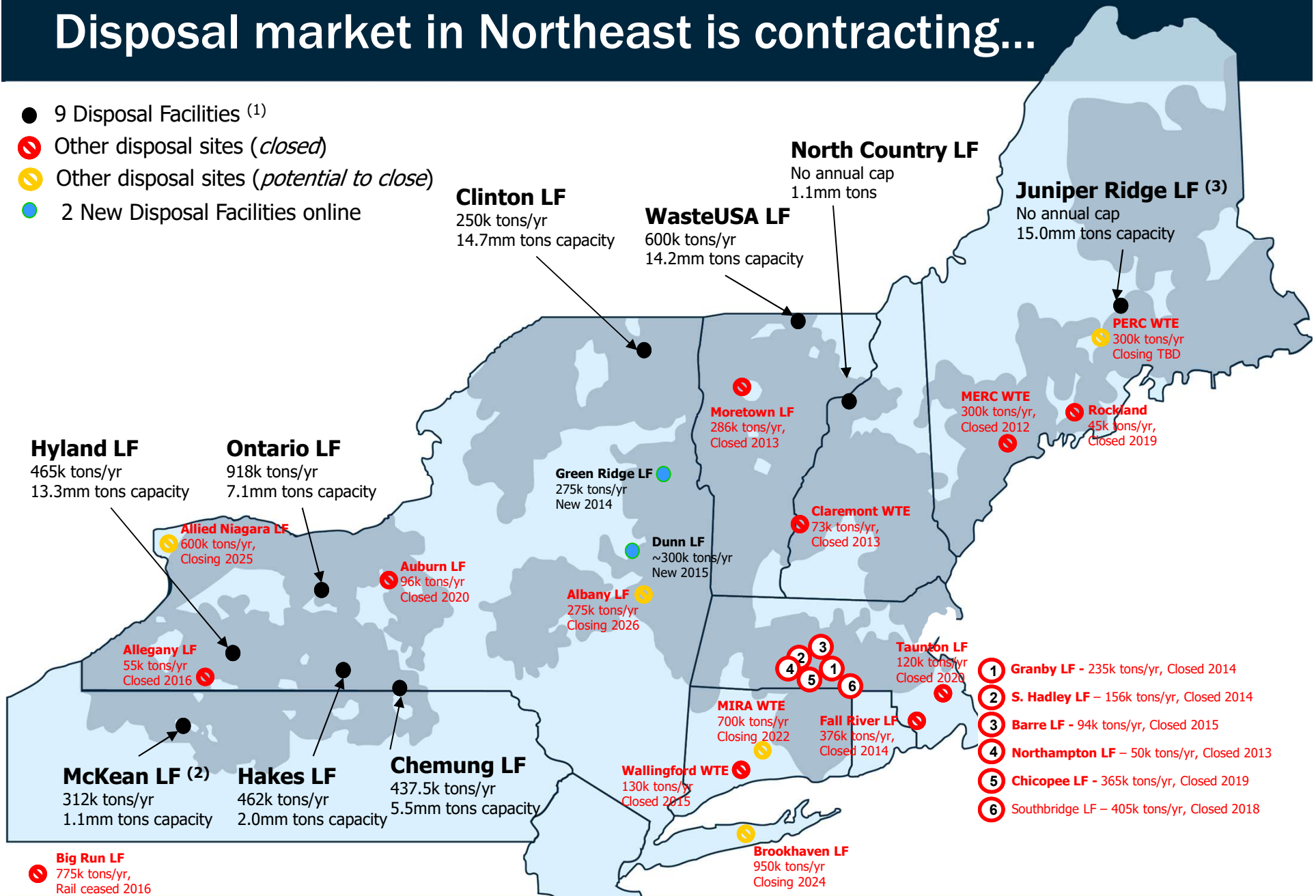
- 6/30/21 LTM reported landfill price up +5.2% with continued tightening disposal capacity across the northeast.
- Landfill tons up +11.2% in Q2 2021 with YOY economic recovery.
- Landfill tonnage trends continued to improve sequentially through June 2021; narrowing the gap to normal seasonal levels as economic activity levels improved from Q4 2020.

Market dynamics are improving across our footprint area.

- Disposal site closures (and expected closures) are creating a supply-demand imbalance.
- Within our footprint, roughly 2.7mm tons/yr of disposal capacity has closed since Dec 2012, and an additional 2.8mm tons/yr of disposal capacity is expected to permanently close in the next several years, offset by 0.4mm tons/yr of new disposal capacity (= **net closure of -5.1mm tons/yr**).

Disposal market in Northeast is contracting...

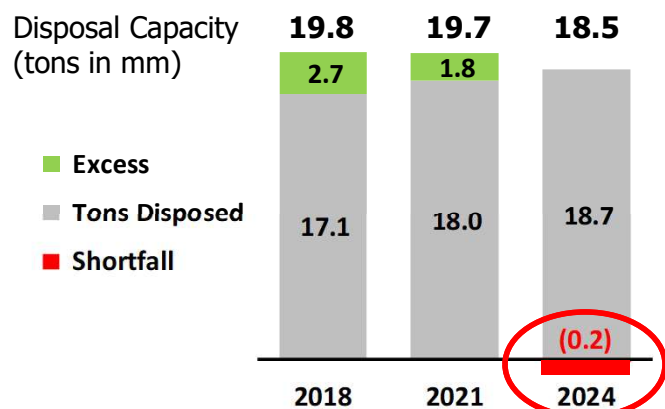
- 9 Disposal Facilities ⁽¹⁾
- 🚫 Other disposal sites (*closed*)
- 🟡 Other disposal sites (*potential to close*)
- 🟢 2 New Disposal Facilities online



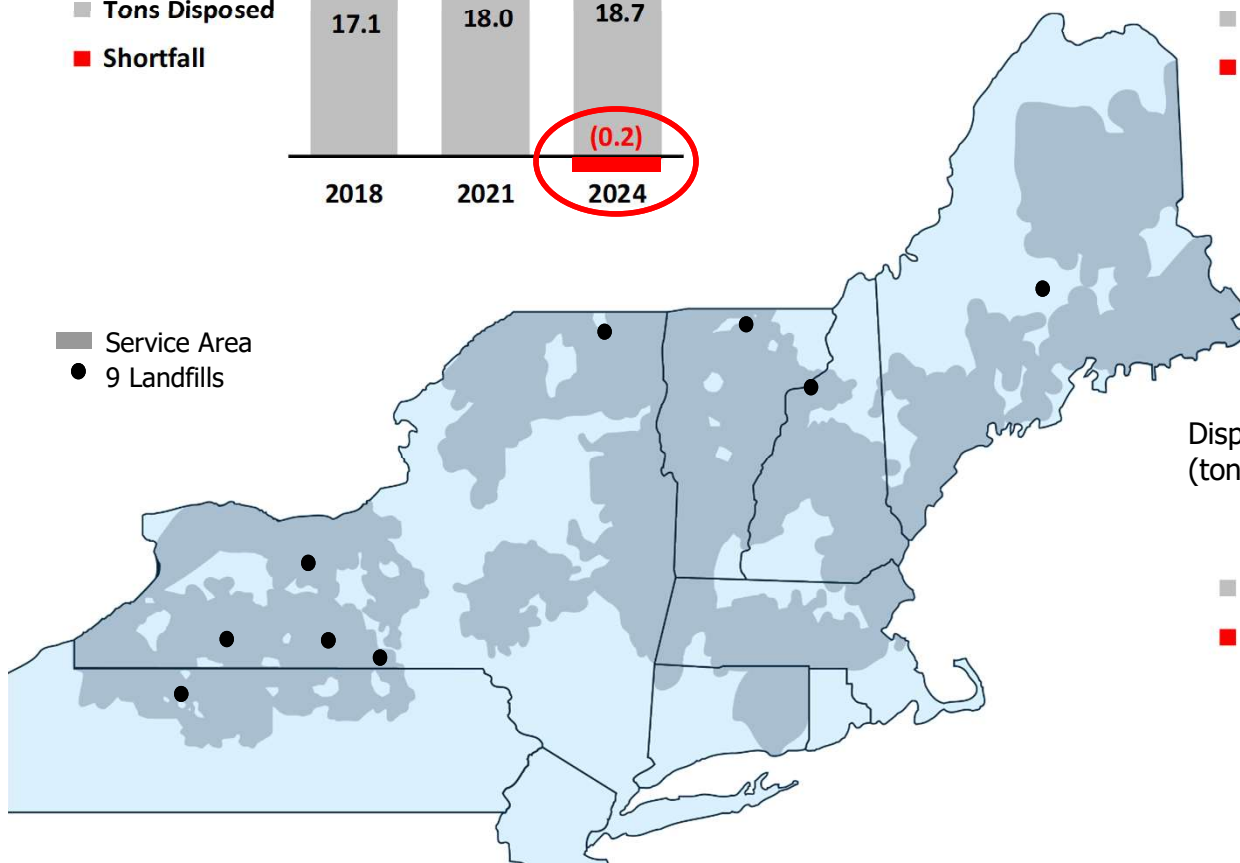
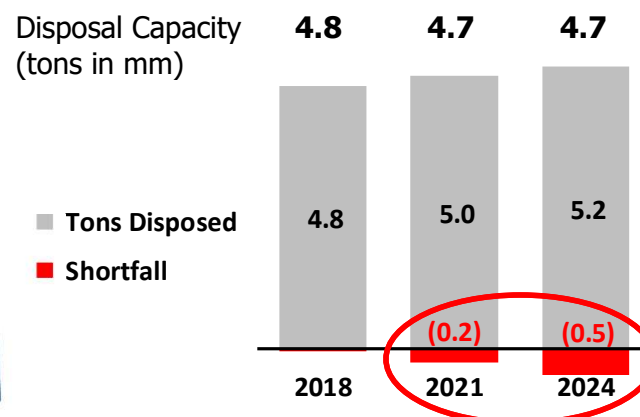
(1) Total disposal capacity includes permitted and permitable airspace estimates at each site as of 12/31/19; (2) McKean LF annual capacity does not include the 1.5mm tons/yr rail permit or 30mm cyds of expansion airspace.

...creating a supply-demand imbalance

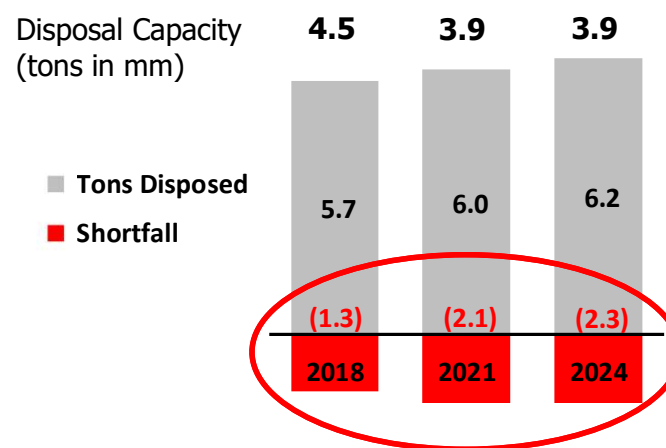
New York



Vermont, New Hampshire & Maine

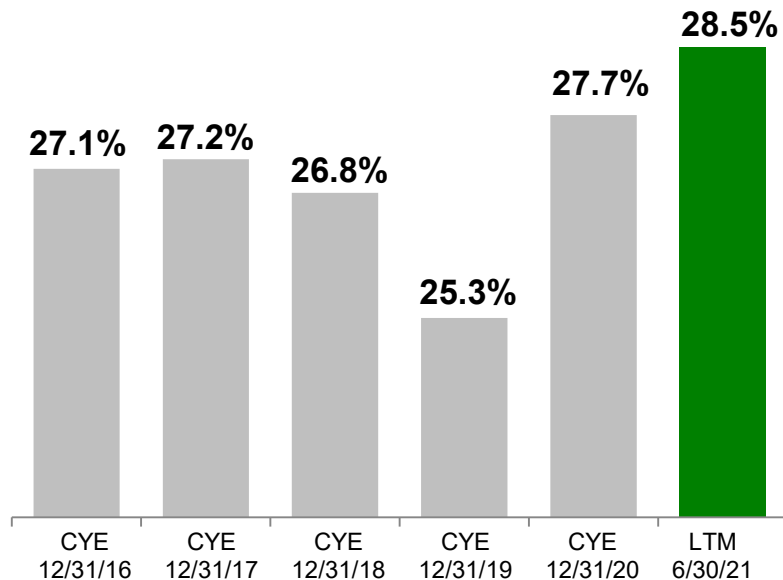


Massachusetts



Note: Data collected from active landfill and waste to energy facilities from State Annual Facility Reports for 2017 and 2018, and includes company estimates.

Collection Adjusted EBITDA Margins



Strategies to improve Collection profitability:

- 1) Pricing over inflation;
- 2) Operating efficiencies; and
- 3) Improving density through profitable organic growth and acquisitions.

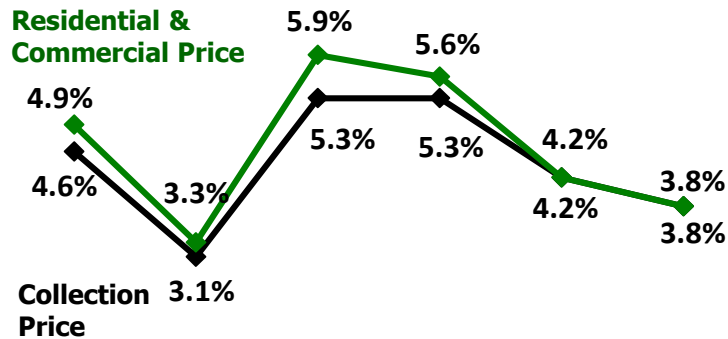
Collection margin improvement.

- Effectively flexed variable costs in Q1 2021 and 2020 to fully offset the negative volume impact related to COVID-19.
- Direct labor and disposal cost inflation, along with acquisition activity weighed on margins in 2018 and 2019.
- Anniversaried large inflation headwinds in Q4 2019, with margin improvement the last five quarters.

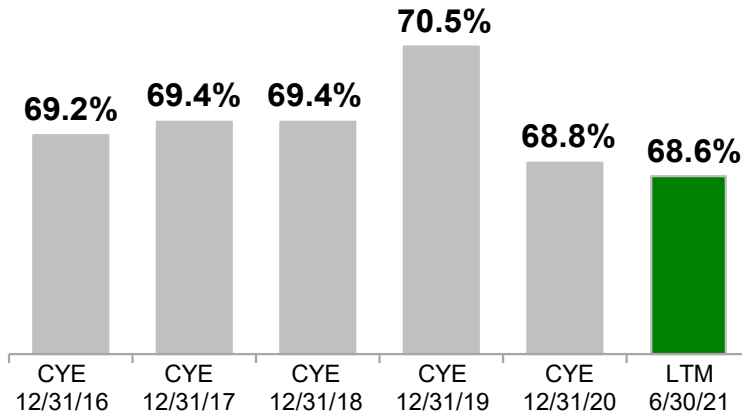
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Driving additional profitability in collection operations - continued

Collection Price



Collection Cost of Operations as % of Collection Revenues



(1) Focus on pricing discipline.

- Collection pricing up +4.2% YOY in Q2 2021.
- Pricing discipline maintained through COVID-19 pandemic. Created additional flexibility for customers by allowing for service level reductions and suspensions.
- Use floating fees to manage risk - SRA fee for recycling commodities and E&E fee to offset fuel volatility and environmental inflation.

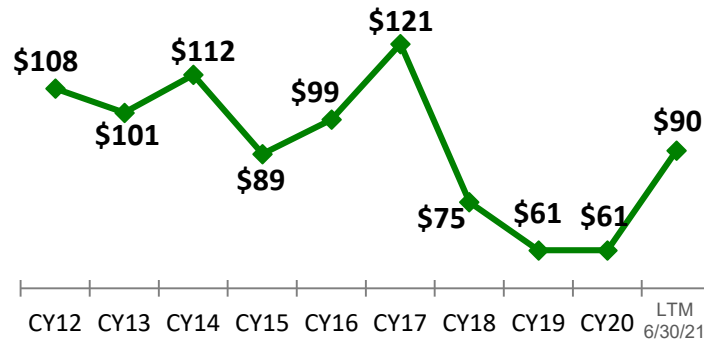
(2) Focus on operating efficiencies.

- Business Intelligence tools and robust operating programs enabled rapid flexing of variable operating costs during COVID-19.
- Route profitability - new dynamic routing tools, new on-board computers, Service Excellence program, roll-off profitability initiative.
- Fleet optimization - standardized fleet selection, automation, reducing maintenance costs.

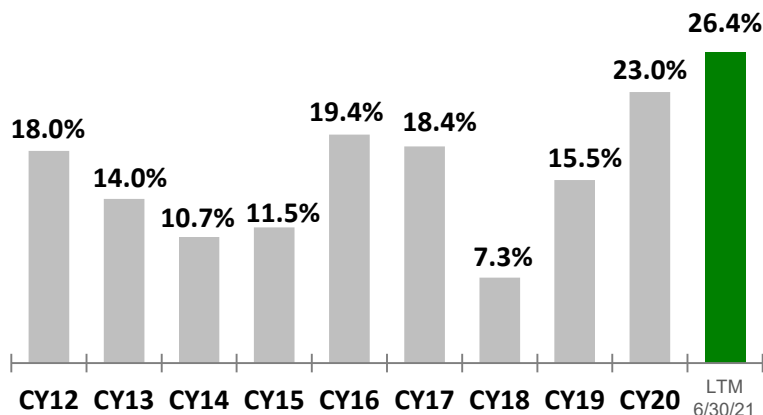
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Creating incremental value through Resource Solutions

Average Commodity Revenue per ton (ACR)



Recycling Adjusted EBITDA Margins



Reshaped recycling model to improve returns and reduce commodity risk.

- Increased revenue share thresholds for 3rd party recycling customers.
- Introduced the Sustainability Recycling Adjustment fee (SRA) for collection customers.
- Pass back increased processing costs to customers with Net Average Commodity Rate.

LTM Recycling Adj. EBITDA margins of +26.4% up +1090bps from 2019.

- Driven by higher recycling commodity prices, processing fees, and operational improvements.
- We continue to improve our revenue model, focus on operational improvements, and make return driven investments on equipment.

Technology Strategy focuses on investment in core systems and infrastructure to drive cost efficiencies, customer value, and growth.

Profitable revenue growth

Optimize sales organization and activities.

- Migrated from 5 CRM systems to MS Dynamics CRM & Case Management.
- Sustainable Growth team focused on resource solutions, opportunity and retention activities, cross-selling, and driving higher salesforce effectiveness and efficiency.

Operating efficiencies

Leveraging technology to help drive operating efficiencies.

- Utilizing MS PowerBi to gain real-time business intelligence to drive higher accountability and more efficient decision making .
- Easyroute implemented as new route optimization platform and piloting RouteWare as new on-board computing platform to drive efficiencies, enhance safety, and improve billings.
- Developing new MS D365 service management system, including customer portals, dispatch, work-order-management, billing, credit & collections.

Back-office efficiencies

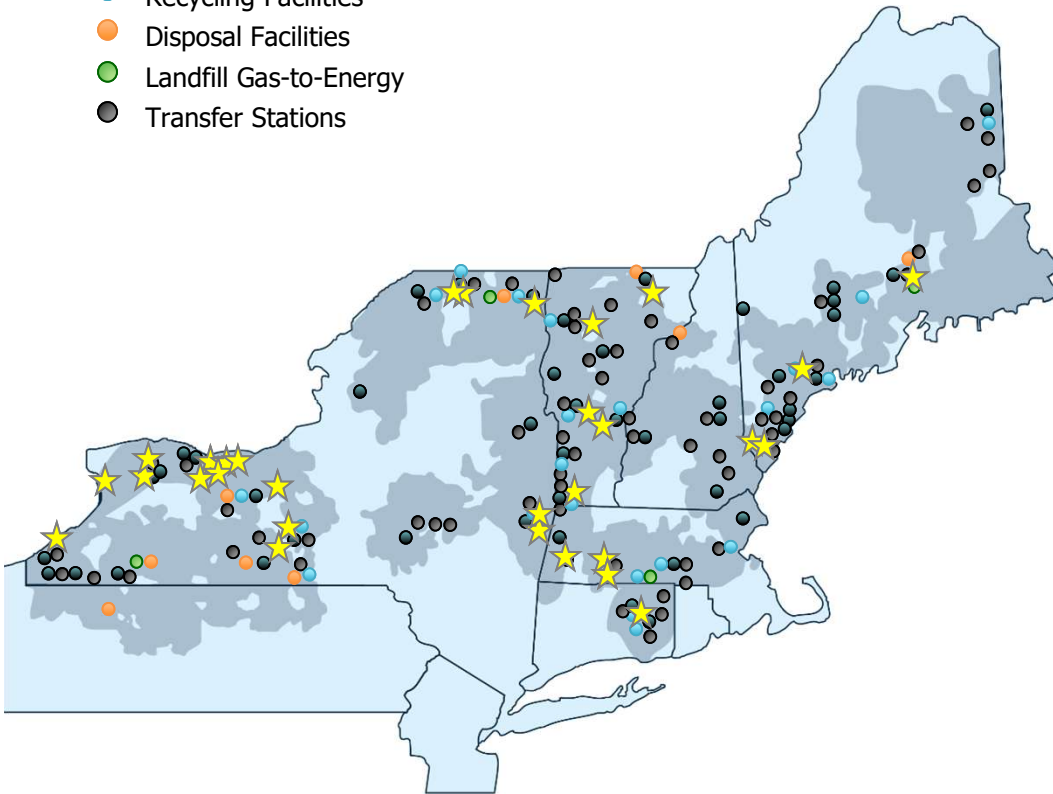
Update key systems to drive finance and back-office transformation.

- NetSuite implemented as new ERP system in Feb 2018 (on-time and on-budget).
- Updating procurement systems with the implementation of Coupa, digitization and automation of key processes, and spend category management.

Acquisition activity

★ Recent Acquisitions (since Q3 2017)

- Collection Operations
- Recycling Facilities
- Disposal Facilities
- Landfill Gas-to-Energy
- Transfer Stations



Acquisition program ramped up over last 3-years

- 2018: 10 acquisitions with \$77mm revenues.
- 2019: 9 acquisitions with \$53mm revenues.
- 2020: 10 acquisitions with \$22mm revenues.

Completed 5 acquisition with \$67mm of annualized revenues in 2021 to date.

- Continued focus in 2021 on effectively integrating past acquisitions, driving synergies, and further strategic growth.

Robust pipeline of acquisitions.

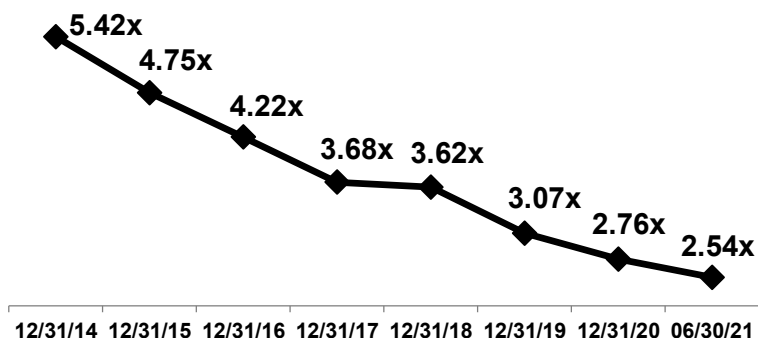
- We have over \$500mm of potential acquisitions in our mid-term pipeline across our northeast markets.
- Acquisitions will be opportunistic and will strictly adhere to our disciplined capital return hurdles and review process.

Balance sheet gives ample liquidity to meet needs

6/30/21 - Capitalization Table (\$mm)

Cash	\$	167.2
Revolver (\$200mm, L+175bps, due 2023)		-
Term Loan A (L+175bps, due 2023)		348.3
Industrial Revenue Bonds (2.75% - 5.25%, due 2025 - 2050)		162.0
Notes Payable & Finance leases (3.5% - 5.0%)		38.9
Total Debt		549.2
Unencumbered Cash		50.0
Total Debt, Net of Unencumbered Cash	\$	499.2
Consolidated Bank EBITDA (LTM)	\$	196.5
Total Debt, Net / Consolidated Bank EBITDA		2.54x
Total Debt (net all cash) / Consolidated Bank EBITDA		1.94x
Available Liquidity (including Cash)	\$	340.8

Consolidated Net Leverage Ratio ⁽²⁾



Conservative capital structure – with adequate liquidity, covenant headroom, and no near-term maturities.

- Consolidated Net Leverage Ratio 2.54x at 6/30/21, or 1.94x after netting all cash against debt.
- Liquidity of \$340.8mm at 6/30/21, including \$167.2mm of cash.
- Closed Equity Offering on 10/23/20 with \$151.3mm of aggregate gross proceeds.
- Our proforma leverage was ~2.46x for 6/30/21, with liquidity of roughly \$217 million, after considering the Willimantic acquisition closed on 7/26/21.

(1) Credit Agreement only allows up to \$50mm of unencumbered cash to be netted against Total Debt, net for the purpose of calculating leverage ratio.

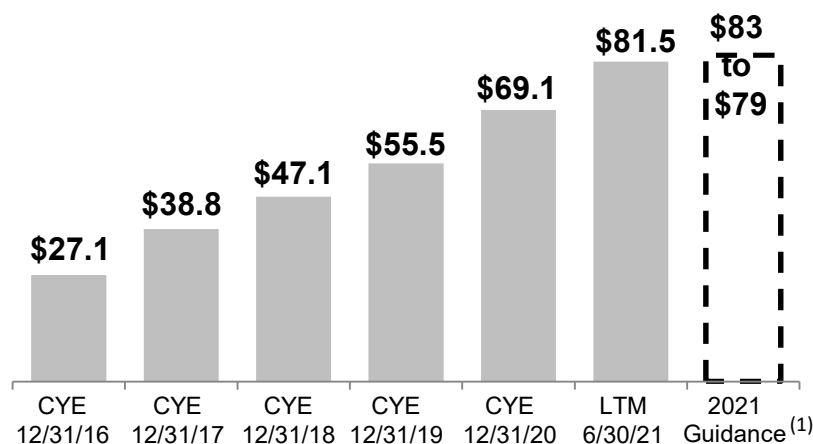
(2) Defined as "Consolidated Net Leverage Ratio" in the Credit Agreement dated as of 10/17/16 for 12/31/16, 12/31/17, 12/31/18, 12/31/19, 12/31/20, 6/30/21; Total Debt-to-EBITDA as defined as "Consolidated Leverage Ratio" in the Loan & Security Agreement dated as of 2/27/15 ("ABL Revolver") for all other periods; see appendix for a reconciliation.

(3) Leverage ratio after netting all cash against consolidated debt.

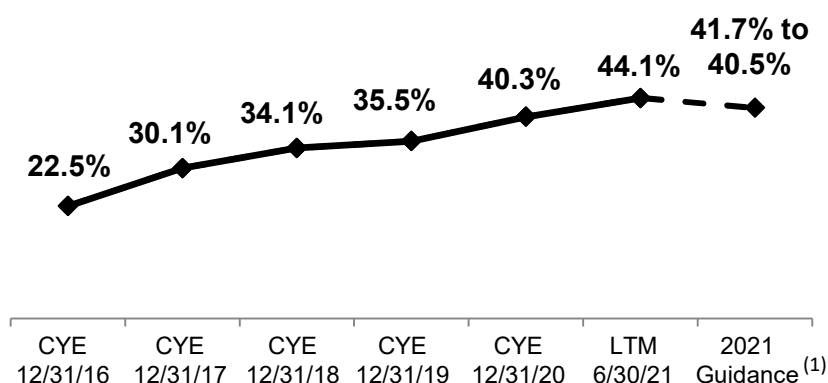
Strategic execution driving higher Free Cash Flows

Adjusted Free Cash Flow (\$mm) ^{(1), (2)}

CAGR ~25%.



Adjusted Free Cash Flow Yield (as % of Adj EBITDA) ^{(1), (2)}



Focused on improving Free Cash Flow:

- Goal to grow Adjusted FCF +10% to +15% per year.
- LTM 6/30/21 Adjusted FCF \$81.5mm (up +\$12.4mm vs 2020) on strong operating results and positive working capital management.
- Plan to use excess cash for select strategic tuck-in acquisitions or investments.
- Adjusted Tax loss carryforwards will continue to shield cash taxes for the foreseeable future (as of 12/31/20, \$138.9mm of Federal NOLs).⁽³⁾

(1) CY 2021 Guidance as announced on 2/18/21, updated on 4/29/21, and raised on 7/29/21.

(2) See attached appendix for further information and for a reconciliation of Adjusted Free Cash Flow to net cash provided by operating activities, which is the most directly comparable GAAP measure. Net cash provided by operating activities for the periods presented above was \$70.5mm for CYE 12/31/15, \$80.4mm for CYE 12/31/16, \$107.5mm for CYE 12/31/17, \$120.8mm for CYE 12/31/18, \$116.8mm for CYE 12/31/19, \$139.9mm for CYE 12/31/20, and \$156.4mm for the 12-months ended 6/30/21.

(3) Total tax carryforwards include \$138.9mm of Federal NOLs and \$6.4mm of Federal tax credits; total tax carry forwards exclude \$68.2mm of State NOLs and \$2.1mm of State tax credits.

Casella's value drivers...

Valuable integrated solid waste assets in disposal limited Northeast markets.

Management focused on increasing Free Cash Flow and reducing debt leverage.

Results demonstrate strong execution of plan.

Near term focus of team:

- *Increasing landfill returns;*
- *Driving profitability of collection operations;*
- *Creating value through Resource Solutions;*
- *Using technology to drive profitable growth & efficiencies;*
- *Allocating capital to balance delevering with smart growth.*



Appendix



Reconciliation of Adjusted EBITDA

\$ in 000's

Non-GAAP Reconciliation of Adjusted Operating Income and Adjusted EBITDA to Net (loss) income (1)

	12 months ended Dec. 31, 2016	12 months ended Dec. 31, 2017	12 months ended Dec. 31, 2018	12 months ended Dec. 31, 2019	12 months ended Dec. 31, 2020	12 months ended Jun. 30, 2021
Revenues	\$ 565,030	\$ 599,309	\$ 660,660	\$ 743,290	\$ 774,584	\$ 808,314
Net (loss) income	\$ (6,858)	\$ (21,799)	\$ 6,420	\$ 31,653	\$ 91,106	\$ 94,128
Provision (benefit) for income taxes	494	(15,253)	(384)	(1,874)	(52,804)	(45,395)
Other income	(1,090)	(935)	(745)	(1,439)	(1,073)	(1,272)
Impairment of investments	-	-	1,069	-	-	-
Loss on debt extinguishment	13,747	517	7,352	-	-	-
Interest expense, net	38,652	24,887	26,021	24,735	22,068	21,335
Southbridge Landfill closure charge, net	-	65,183	8,054	2,709	4,587	3,767
Expense from acquisition activities and other items	-	176	1,872	2,687	1,862	2,548
Environmental remediation charge	900	-	-	-	-	-
Development project charge	-	-	311	-	-	-
Contract settlement charge	-	-	2,100	-	-	-
Withdrawal costs - multiemployer pension plan	-	-	-	3,591	-	-
Depreciation and amortization	61,856	62,102	70,508	79,790	90,782	94,319
Depletion of landfill operating lease obligations	9,295	9,646	9,724	7,711	7,781	7,894
Interest accretion on landfill and environmental remediation liabilities	3,606	4,482	5,708	6,976	7,090	7,510
Adjusted EBITDA	\$ 120,602	\$ 129,006	\$ 138,010	\$ 156,539	\$ 171,399	\$ 184,835
Solid Waste	416,054	437,130	496,832	564,687	578,273	600,324
Resource Solutions	148,976	162,179	163,828	178,603	196,311	207,991
Third party revenues	\$ 565,030	\$ 599,309	\$ 660,660	\$ 743,290	\$ 774,584	\$ 808,314
Adjusted EBITDA margins	21.3%	21.5%	20.9%	21.1%	22.1%	22.9%
Net (loss) income margins	-1.2%	-3.6%	1.0%	4.3%	11.8%	11.6%

(1) We present Adjusted EBITDA, which is a non-GAAP performance measure, to provide an understanding of operational performance because we consider it an important supplemental measure of our performance and believe it is frequently used by securities analysts, investors and other interested parties in the evaluation of our results. We also believe that identifying the impact of certain items as adjustments provides more transparency and comparability across periods. Management uses Adjusted EBITDA to further understand our "core operating performance" and believes our "core operating performance" is helpful in understanding our ongoing performance in the ordinary course of operations. We believe that providing Adjusted EBITDA to investors, in addition to the corresponding income statement measures, affords investors the benefit of viewing our performance using the same financial metrics that the management team uses in making many key decisions and understanding how the core business and our results of operations have performed.

Reconciliation of Adjusted Free Cash Flow

\$ in 000's

Non-GAAP Reconciliation of Adjusted Free Cash Flow to Net cash provided by operating activities

	12 months ended Dec. 31, 2016	12 months ended Dec. 31, 2017	12 months ended Dec. 31, 2018	12 months ended Dec. 31, 2019	12 months ended Dec. 31, 2020	12 months ended Jun. 30, 2021
Net cash provided by operating activities (i)	\$ 80,434	\$ 107,538	\$ 120,834	\$ 116,829	\$ 139,922	\$ 156,442
Capital expenditures	(54,238)	(64,862)	(73,232)	(103,165)	(108,108)	(112,607)
Payments on landfill operating lease contracts (i)	(7,249)	(7,240)	(7,415)	-	-	-
Proceeds from sale of property and equipment	1,362	711	870	750	533	736
Proceeds from property insurance settlement	-	-	992	332	-	-
Southbridge landfill closure and Potsdam environmental remediation (ii)	-	2,182	(2,827)	15,445	8,906	8,682
Interest payment on redemption of senior subordinated notes (iii)	6,770	-	-	-	-	-
Contract settlement costs (iv)	-	-	2,100	-	-	-
Cash outlays from acquisition activities and other items (v)	-	-	1,329	2,622	1,307	1,546
Waste USA Landfill phase VI capital expenditures (vi)	-	-	-	4,873	10,573	13,466
Post acquisition and development project capital expenditures (vii)	38	469	4,402	17,782	16,014	13,206
Adjusted Free Cash Flow	\$ 27,117	\$ 38,798	\$ 47,053	\$ 55,468	\$ 69,147	\$ 81,471

(i) Effective January 1, 2019, as a part of implementing ASC Topic 842, Leases, cash payments on landfill operating lease contracts, which historically were capitalized as property, plant and equipment and presented in the Condensed Consolidated Statements of Cash Flows as cash outflows from investing activities, are classified as cash flows from operating activities that reduce net cash provided by operating activities.

(ii) Southbridge Landfill closure and Potsdam environmental remediation are cash outlays (and inflows) associated with the unplanned closure of the Southbridge Landfill and the Company's portion of costs associated with environmental remediation at the Company's Potsdam, New York scrap yard which are added back when calculating Adjusted Free Cash Flow due to their non-recurring nature and the significance of the related cash flows. The Company initiated the unplanned closure of the Southbridge Landfill in the fiscal year ended December 31, 2017 and expects to incur cash outlays through completion of the closure and environmental remediation process. The Potsdam site was deemed a Superfund site in 2000 and is not associated with current operations.

(iii) Includes interest payment required upon redemption of the 7.75% Senior Subordinated Notes due 2019.

(iv) Includes a contract settlement cash outlay associated with exiting a contract.

(v) Cash outlays from acquisition activities and other items are cash outlays for transaction and integration costs relating to specific acquisition transactions and include legal, environmental, valuation and consulting as well as asset, workforce and system integration costs as part of the Company's strategic growth initiative and other items.

(vi) Waste USA Landfill phase VI capital expenditures are capital expenditures related to Waste USA Landfill phase VI construction and development that are added back when calculating Adjusted Free Cash Flow due to the specific nature of this investment in the development of long-term infrastructure which is different from landfill construction investments in the normal course of operations. This investment at the Waste USA Landfill is unique because the Company is investing in long-term infrastructure over an estimated four year period that will not yield a positive economic benefit until 2023 and extending over approximately 20 years.

(vii) Post acquisition and development project capital expenditures are (x) acquisition related capital expenditures that are necessary to optimize strategic synergies associated with integrating newly acquired operations as contemplated by the discounted cash flow return analysis conducted by management as part of the acquisition investment decision; and (y) non-routine development investments that are expected to provide long-term returns. Acquisition related capital expenditures include the following costs required to achieve initial operating synergies: trucks, equipment and machinery; and facilities, land, IT infrastructure or related upgrades to integrate operations.

- (1) We present non-GAAP liquidity measures such as Adjusted Free Cash Flow, Bank Consolidated EBITDA, Consolidated Funded Debt, Net and Consolidated Net Leverage Ratio that provide an understanding of the Company's liquidity because we consider them important supplemental measures of our liquidity that are frequently used by securities analysts, investors and other interested parties in the evaluation of our cash flow generation from our core operations that are then available to be deployed for strategic acquisitions, growth, investments, development projects, unusual landfill closures, site improvements and remediation, and strengthening our balance sheet through paying down debt. We also believe that identifying the impact of certain items as adjustments provides more transparency and comparability across periods. Management uses non-GAAP liquidity measures to further understand our cash flow provided by operating activities after certain expenditures along with our consolidated net leverage and believes that these measures demonstrate our ability to execute on our strategic initiatives. We believe that providing such non-GAAP liquidity measures to investors, in addition to corresponding cash flow statement measures, affords investors the benefit of viewing our liquidity using the same financial metrics that the management team uses in making many key decisions and understanding how the core business and cash flow generation has performed.

Reconciliation of Consolidated Leverage Ratio

\$ in millions

Reconciliation of Consolidated EBITDA (as defined by the applicable credit facility agreement) to Net Cash Provided by Operating Activities

\$ in millions	12 months ended Dec. 31, 2014	12 months ended Dec. 31, 2015	12 months ended Dec. 31, 2016	12 months ended Dec. 31, 2017	12 months ended Dec. 31, 2018	12 months ended Dec. 31, 2019	12 months ended Dec. 31, 2020	12 months ended Jun. 30, 2021
Net cash provided by operating activities	\$ 62.2	\$ 70.5	\$ 80.4	\$ 107.5	\$ 120.8	\$ 116.8	\$ 139.9	\$ 156.4
Changes in assets and liabilities, net of effects of acquisitions and divestiture:	(2.2)	(5.0)	9.4	4.6	5.4	28.7	25.2	22.7
Divestiture transactions	(6.9)	5.5	-	-	-	-	-	-
Gain (loss) on sale of property and equipment	0.5	0.1	0.6	(0.1)	0.5	0.9	(0.9)	(0.7)
Loss on sale of equity method investment	(0.2)	-	-	-	-	-	-	-
Loss on debt extinguishment	-	(1.0)	(13.7)	(0.5)	(7.4)	-	-	-
Non-cash expense from acquisition activities and other items	-	-	-	-	(0.8)	(0.1)	(0.6)	(1.0)
Stock based compensation and related severance expense, net of excess tax	(2.3)	(2.9)	(3.4)	(6.4)	(8.4)	(7.2)	(8.2)	(10.9)
Development project charge	(1.4)	-	-	-	(0.3)	-	-	-
Impairment of investments	(2.3)	(2.1)	-	-	(1.1)	-	-	-
Operating lease right-of-use assets expense	-	-	-	-	-	(9.6)	(8.5)	(6.7)
Withdrawal costs - multiemployer pension plan	-	-	-	-	-	(2.2)	-	-
Loss on derivative instruments	(0.6)	(0.2)	-	-	-	-	-	-
Southbridge Landfill non-cash closure charge	-	-	-	(63.5)	(16.2)	(0.1)	(0.3)	(0.2)
Southbridge Landfill insurance recovery for investing activities	-	-	-	-	3.5	-	-	-
Interest expense, less amortization of debt issuance costs and discount on lo	38.2	40.1	35.1	22.5	23.9	22.8	20.2	19.4
Provision (benefit) for income taxes, net of deferred taxes	0.2	0.6	(0.1)	0.3	(1.6)	(0.6)	(0.5)	1.1
Gain on settlement of acquisition related contingent consideration	1.1	-	-	-	-	-	-	-
Environmental remediation charge	-	-	(0.9)	-	-	-	-	-
EBITDA adjustment as allowed by the applicable credit facility agreement	7.5	(2.5)	-	-	-	-	-	-
Adjustments as allowed by the applicable credit facility agreement	5.3	7.4	17.1	71.0	34.7	20.5	14.1	16.4
Minimum Consolidated EBITDA	\$ 99.0	\$ 110.5	\$ 124.5	\$ 135.4	\$ 153.0	\$ 169.9	\$ 180.5	\$ 196.5
Consolidated Funded Debt (Total Debt)	\$ 537.0	\$ 525.0	\$ 525.6	\$ 497.7	\$ 555.2	\$ 522.7	\$ 548.4	\$ 549.2
Consolidated Net Leverage Ratio (Total Debt-to-EBITDA)	5.42	4.75	4.22	3.68	3.62	3.07	2.76	2.54

Capital Expenditure Detail

\$ in 000's

Capital Expenditure Detail ⁽¹⁾

(\$ in thousands)

	12 months ended Dec. 31, 2015	12 months ended Dec. 31, 2016	12 months ended Dec. 31, 2017	12 months ended Dec. 31, 2018	12 months ended Dec. 31, 2019	12 months ended Dec. 31, 2020
Growth Capital Expenditures:						
Post acquisition and development projects	\$ -	\$ -	\$ 469	\$ 4,402	\$ 17,782	\$ 16,014
Waste USA Landfill Phase VI	-	-	-	-	4,873	10,573
Other	7,244	5,373	3,552	4,260	1,582	4,362
Growth Capital Expenditures	\$ 7,244	\$ 5,373	\$ 4,021	\$ 8,662	\$ 24,237	\$ 30,949
Replacement Capital Expenditures:						
Landfill development	18,828	29,666	33,697	27,709	26,915	36,981
Vehicles, machinery, equipment, and containers	18,866	15,512	21,581	30,287	42,828	30,846
Facilities	2,873	2,581	3,155	4,985	7,001	5,170
Other	2,184	1,068	2,408	1,589	2,184	4,162
Total Replacement Capital Expenditures	42,751	48,827	60,841	64,570	78,928	77,159
Total Capital Expenditures	\$ 49,995	\$ 54,200	\$ 64,862	\$ 73,232	\$ 103,165	\$ 108,108
Replacement Capital Expenditures as % of Revenues	7.8%	8.6%	10.2%	9.8%	10.6%	10.0%
Total Capital Expenditures as % of Revenues	9.1%	9.6%	10.8%	11.1%	13.9%	14.0%

- (1) The Company's capital expenditures are broadly defined as pertaining to either growth or replacement activities. *Growth capital expenditures* are defined as costs related to development projects, organic business growth, and the integration of newly acquired operations. Growth capital expenditures include costs related to the following: 1) post acquisition and development projects that are necessary to optimize strategic synergies associated with integrating newly acquired operations as contemplated by the discounted cash flow return analysis conducted by management as part of the acquisition investment decision as well as non-routine development investments that are expected to provide long-term returns and includes the following capital expenditures required to achieve initial operating synergies: trucks, equipment and machinery; and facilities, land, IT infrastructure or related upgrades to integrate operations; 2) Waste USA Landfill phase VI construction and development for long-term infrastructure, which is unique and different from landfill construction investments in the normal course of operations because the Company is investing in long-term infrastructure over an estimated four year period that will not yield a positive economic benefit until 2023 and extending over approximately 20 years; and 3) development of new airspace, permit expansions, and new recycling contracts, equipment added directly as a result of organic business growth and infrastructure added to increase throughput at transfer stations and recycling facilities. *Replacement capital expenditures* are defined as landfill cell construction costs not related to expansion airspace, costs for normal permit renewals, and replacement costs for equipment due to age or obsolescence.

Reconciliations for 2021 guidance ranges

\$ in 000's

Following is a reconciliation of the Company's estimated Adjusted EBITDA from estimated Net income for the fiscal year ending December 31, 2021

<i>\$ in thousands</i>	(Estimated) Fiscal Year Ending December 31, 2021
Net Income	\$35,000 - \$39,000
Interest expense, net	22,000
Other income	(500)
Provision for income taxes	17,000
Southbridge Landfill closure charge	1,000
Expense from acquisition activities	2,500
Depreciation and amortization	103,000
Depletion of landfill operating lease obligations	7,500
Interest accretion on landfill and environmental remediation liabilities	7,500
Adjusted EBITDA	\$195,000 - \$199,000

(1) We present Adjusted EBITDA, which is a non-GAAP performance measure, to provide an understanding of operational performance because we consider it an important supplemental measure of our performance and believe it is frequently used by securities analysts, investors and other interested parties in the evaluation of our results. We also believe that identifying the impact of certain items as adjustments provides more transparency and comparability across periods. Management uses Adjusted EBITDA to further understand our "core operating performance" and believes our "core operating performance" is helpful in understanding our ongoing performance in the ordinary course of operations. We believe that providing Adjusted EBITDA to investors, in addition to the corresponding income statement measures, affords investors the benefit of viewing our performance using the same financial metrics that the management team uses in making many key decisions and understanding how the core business and our results of operations have performed.

Reconciliations for 2021 guidance ranges (continued)

\$ in 000's

Following is a reconciliation of the Company's estimated Adjusted Free Cash Flow from estimated Net cash provided by operating activities for the fiscal year ending 12/31/2021.

<i>\$ in thousands</i>	
	(Estimated) Fiscal Year Ending December 31, 2021
Net Cash Provided by Operating Activities	\$158,000 - \$162,000
Capital expenditures	(122,000)
Proceeds from sale of property and equipment	500
Southbridge Landfill closure and Potsdam environmental remediation (i)	8,500
Waste USA Landfill phase VI capital expenditures (ii)	13,000
Post acquisition and development project capital expenditures (iii)	20,000
Cash outlays from acquisition activities (iv)	1,000
Adjusted Free Cash Flow	\$79,000 - \$83,000

(i) Southbridge Landfill closure and Potsdam environmental remediation are cash outlays associated with the unplanned closure of the Southbridge Landfill and the Company's portion of costs associated with environmental remediation at the Company's Potsdam, New York scrap yard which are added back when calculating Adjusted Free Cash Flow due to their non-recurring nature and the significance of the related cash flows. The Company initiated the unplanned closure of the Southbridge Landfill in the fiscal year ended December 31, 2017 and expects to incur cash outlays through completion of the closure and environmental remediation process. The Potsdam site was deemed a Superfund site in 2000 and is not associated with current operations.

(ii) Waste USA Landfill phase VI capital expenditures are capital expenditures related to Waste USA Landfill phase VI construction and development that are added back when calculating Adjusted Free Cash Flow due to the specific nature of this investment in the development of long-term infrastructure which is different from landfill construction investments in the normal course of operations. This investment at the Waste USA Landfill is unique because the Company is investing in long-term infrastructure over an estimated four year period that will not yield a positive economic benefit until 2023 and extending over approximately 20 years.

(iii) Post acquisition and development project capital expenditures are (x) acquisition related capital expenditures that are necessary to optimize strategic synergies associated with integrating newly acquired operations as contemplated by the discounted cash flow return analysis conducted by management as part of the acquisition investment decision; and (y) non-routine development investments that are expected to provide long-term returns. Acquisition related capital expenditures include the following costs required to achieve initial operating synergies: trucks, equipment and machinery; and facilities, land, IT infrastructure or related upgrades to integrate operations.

(iv) Cash outlays from acquisition activities are cash outlays for transaction and integration costs relating to specific acquisition transactions and include legal, environmental, valuation and consulting as well as asset, workforce and system integration costs as part of the Company's strategic growth initiative.

- (1) We present non-GAAP liquidity measures such as Adjusted Free Cash Flow, Bank Consolidated EBITDA, Consolidated Funded Debt, Net and Consolidated Net Leverage Ratio that provide an understanding of the Company's liquidity because we consider them important supplemental measures of our liquidity that are frequently used by securities analysts, investors and other interested parties in the evaluation of our cash flow generation from our core operations that are then available to be deployed for strategic acquisitions, growth, investments, development projects, unusual landfill closures, site improvements and remediation, and strengthening our balance sheet through paying down debt. We also believe that identifying the impact of certain items as adjustments provides more transparency and comparability across periods. Management uses non-GAAP liquidity measures to further understand our cash flow provided by operating activities after certain expenditures along with our consolidated net leverage and believes that these measures demonstrate our ability to execute on our strategic initiatives. We believe that providing such non-GAAP liquidity measures to investors, in addition to corresponding cash flow statement measures, affords investors the benefit of viewing our liquidity using the same financial metrics that the management team uses in making many key decisions and understanding how the core business and cash flow generation has performed.