

Third Quarter 2021 Earnings Results Call

November 10, 2021





This presentation includes forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, which provides a "safe harbor" for such statements in certain circumstances. The forward-looking statements include statements or expectations regarding net, after-tax cash flows from refined coal ("RC"); expectations of continued strong APT performance; and results from the Company's review of strategic alternatives. These statements are based on current expectations, estimates, projections, beliefs and assumptions of our management. Such statements involve significant risks and uncertainties. Actual events or results could differ materially from those discussed in the forward-looking statements as a result of various factors, including but not limited to, the outcome of the review of strategic alternatives, our ability to meet customer supply requirements, the rate of coal-fired power generation in the United States; changes and timing in laws, regulations, IRS interpretations or guidance, and accounting rules; changes in prices, economic conditions and market demand; impact of competition; technical, start-up and operational difficulties; availability of raw materials; customer demand for our APT products; competition within the industries in which we operate; availability of opportunities to further grow our business; loss of key personnel; ongoing effects of the COVID-19 pandemic and associated economic downturn on our operations and prospects; and other factors discussed in greater detail in our filings with the SEC. You are cautioned not to place undue reliance on such statements and to consult our SEC filings for additional risks and uncertainties that may apply to our business and the ownership of our securities. Our forward-looking statements are presented as of the date made, and we disclaim any duty to update such statements unless required by law to do so.

THIRD QUARTER 2021 BUSINESS SUMMARY



Refined Coal ("RC")

- Q3 distributions were \$22.9M compared to \$9.7M in 2020
- Q3 royalties were \$4.2M compared to \$3.6M
- Q3 segment operating income was \$26.3M compared to \$12.8M
- Q3 segment Adjusted EBITDA⁽¹⁾ was \$26.9M compared to \$13.1M



Advanced Purification Technologies ("APT")

- Q3 revenue was \$24.7M compared to \$15.8M; Q3 gross profit was \$6.7M compared to \$0.8M
- Q3 segment operating income totaled \$4.6M compared to segment operating loss of \$3.3M
- Q3 segment Adjusted EBITDA⁽¹⁾ of \$4.2M compared to a segment Adjusted EBITDA loss of \$1.6M



Consolidated Results & Capital Allocation

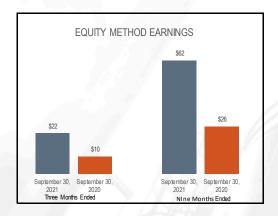
- Q3 net income of \$24.3M compared to \$5.0M
- Q3 consolidated Adjusted EBITDA
 (2) of \$28.5M compared to \$8.7M
- Cash, including restricted cash, of \$82.1M compared to \$35.9M as of December 31, 2020

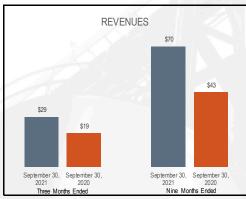


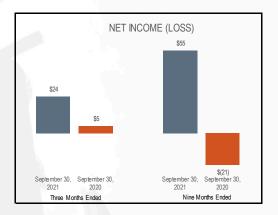
Outlook

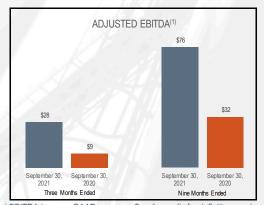
- Net, after-tax cash flows from RC segment projected to be approximately \$8.5M in Q4
- Expect additional cash flows to be disbursed during 1H 2022 as Tinuum winds down
- Expect continued top-line strength in APT segment
- Strategic alternatives review underway and progressing

FINANCIAL HIGHLIGHTS

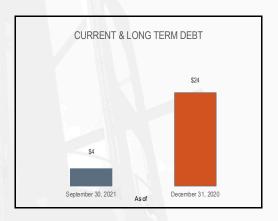






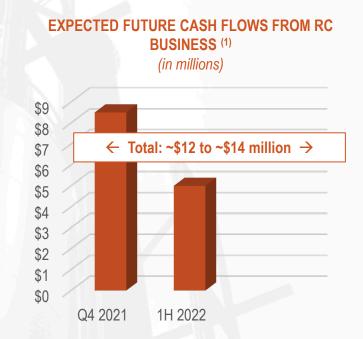






EXPECTED FUTURE REFINED COAL ("RC") CASH FLOWS

- Based on 16 invested facilities as of September 30, 2021 and includes all net RC cash flows of ADES (1)
- The remaining 16 facilities Section 45 tax credit generation period will expire by the end of the year
- Expected future net RC cash flows of ~\$8.5 million in the fourth guarter (2)
- The Company expects additional net RC cash flows during the first half of 2022 upon the full wind down of Tinuum



¹⁾ Net projected RC cash flows include the impact of all expected Tinuum distributions and royalty payments offset by the Company's federal and state tax payments as well as 453A interest payments

⁽²⁾ The expectation is based on the following four key assumptions: 1) Tinuum Group continues to not operate retained facilities; 2) Tinuum Group does not have material unexpected CapEx or unusual operating expenses based on expectations as of the balance sheet date; 3) tax equity lease renewals are not terminated or repriced; 4) coal-fired generation remains consistent with contractual expectations; and 5) wind down operations are in line with expectations.

APT SEGMENT GROWTH OPPORTUNITIES

Mercury Removal

Became provider-of-choice in mercury removal for coal-fired power generation immediately upon acquiring ADA Carbon Solutions and we leverage our existing IP, technologies and relationships to maintain our market position. However, this market is likely to remain structurally more challenged as aggregate coal burn is expected to decline over time.

Industrial Applications and Municipal Water

In response, we have developed a solid market position for certain Industrial applications and Municipal water - including markets that ADA Carbon Solutions did not previously serve.

Adjacent Markets

More specialized applications, offering higher margin and higher growth commercial market opportunities. The quality of Red River plant offers us the asset base to pursue these adjacent markets.



Provider of Choice

Premier provider of activated carbon and wellpositioned to capitalize on emerging opportunities. Our projected volumes for 2021 are higher than any year since the acquisition of ADA Carbon Solutions, helped by the Cabot supply agreement and demand from our power generation market, and as we are selling into a more balanced mix of commercial markets.













OPTIMIZE REFINED COAL NET CASH FLOWS:

- Protect current forecasted cash flow stream to support capital allocation initiatives
- Maximize operational performance to produce RC and execute on plans for end of Tinuum businesses



FURTHER SCALE APT SEGMENT TO IMPROVE PROFITABILITY:

- Optimize Red River's capacity utilization to fully capture the low-cost benefit of the highly efficient plant
- Defend share in mercury control market while diversifying further into non-power generation markets to improve the earnings profile of the business
- Remain vigilant for additional rationalization opportunities and supply agreements
- Improved margin through customer and product mix

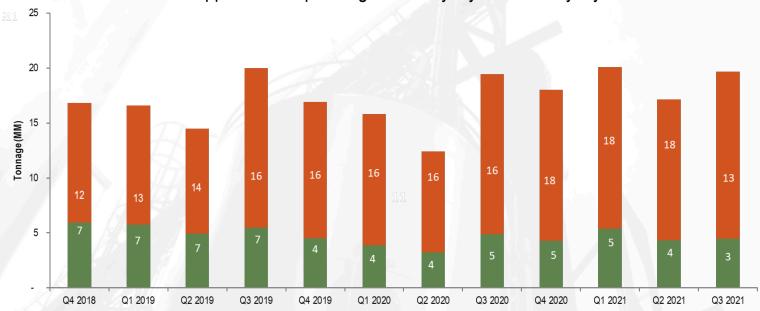


OPTIMIZE CASH FLOWS & ASSETS TO DRIVE SHAREHOLDER VALUE:

- Invest in APT segment's strategic initiatives to solidify position as provider-of-choice for activated carbon
- Execute strategic alternatives review to assess opportunities to maximize shareholder value



Appendix A: Operating Tons: Royalty Vs. Non-royalty

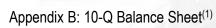


Three Month Ended	Operatir	Operating Tons		
September 30, 2021	Royalty	Royalty Non-Royalty		
Tonnage (1)	15,209	4,463	19,672	
Count (#) (2)	18	4	22	

Nine Months Ended	Operatir	YTD - Total	
September 30, 2021	Royalty	Non-Royalty	TID - Total
Tonnage ⁽¹⁾	42,668	14,209	56,878
Count (#) (2)	18	5	23

Note: Numbers within bar graph represent the number of facilities per category as of the end of each quarter presented

⁽¹⁾ Tonnage information is based upon RC production for the three and nine months ended September 30, 2021 (in thousands) (2) Counts are based upon the number of facilities of which a royalty has been earned during the period presented.



Appendix b. 10-Q balance offeet	As of						
(in thousands, except share data)	Septer	nber 30, 2021	Decemb	er 31, 2020			
ASSETS							
Current assets:		70.400	_				
Cash, cash equivalents and restricted cash	\$		\$	30,932			
Receivables, net		15,279		13,125			
Receivables, related parties		4,165		3,453			
Inventories, net		5,569		9,882			
Prepaid expenses and other assets		4,614		4,597			
Total current assets		101,766		61,989			
Restricted cash, long-term		10,000		5,000			
Property, plant and equipment, net of accumulated depreciation of \$6,600 and \$3,340, respectively		30,712		29,433			
Intangible assets, net		1,452		1,964			
Equity method investments		2,884		7,692			
Deferred tax assets, net		1,558		10,604			
Other long-term assets, net	-	33,401	•	29,989			
Total Assets	2	181,773	2	146,671			
IABILITIES AND STOCKHOLDERS' EQUITY							
Current liabilities:		0.405	•	7.040			
Accounts payable	\$	9,125	ý	7,849			
Accrued payroll and related liabilities		4,498		3,257			
Current portion of long-term debt Other current liabilities		1,033		18,441 12,996			
Total current liabilities		9,866 24,522		42,543			
Long-term debt, net of current portion		3,408		5,445			
Other long-term liabilities		12,818		13,473			
Total Liabilities		40.748		61,461			
Commitments and contingencies (Note 11)		40,740		01,401			
Stockholders' equity:							
Preferred stock: par value of \$.001 per share, 50,000,000 shares authorized, none outstanding		_		_			
Common stock: par value of \$.001 per share, 100,000,000 shares authorized, 23,483,286 and 23,141,284 shares issued, and 18,865,140							
and 18,523,138 shares outstanding at September 30, 2021 and December 31, 2020, respectively.		23		23			
Treasury stock, at cost: 4.618,146 and 4.618,146 shares as of September 30, 2021 and December 31, 2020, respectively		(47,692)		(47,692)			
Additional paid-in capital		101.660		100,425			
Retained earnings		87,034		32,454			
Total stockholders' equity		141,025		85,210			
Total Liabilities and Stockholders' Equity	S		S	146,671			
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Appendix C: 10-Q Income Statement⁽¹⁾

	Three Months Ended September 30,					Nine Months Ended September 30,					
(in thousands, except per share data)		2021		2020		2021		2020			
Revenues:											
Consumables	\$	24,689	\$	15,844	\$	57,696	\$	33,231			
License royalties, related party		4,165		3,627		11,888		9,986			
Total revenues	100	28,854	75	19,471		69,584		43,217			
Operating expenses:											
Consumables cost of revenue, exclusive of depreciation and amortization		17,952		15,013		43,726		33,920			
Payroll and benefits		2,637		2,285		8,014		8,839			
Legal and professional fees		1,106		1,321		4,340		4,386			
General and administrative		1,715		1,900		5,223		6,693			
Depreciation, amortization, depletion and accretion		2,145		1,777		6,155		5,807			
Impairment of long-lived assets		_		_		100 m		26,103			
Gain on change in estimate, asset retirement obligation		_		_		(1,942)		_			
Total operating expenses		25,555		22,296		65,516		85,748			
Operating income (loss)		3,299		(2,825)		4,068		(42,531)			
Other income (expense):											
Earnings from equity method investments		22,195		9,518		61,944		25,959			
Gain on extinguishment of debt		3,345		_		3,345		_			
Interest expense		(86)		(881)		(1,416)		(3,053)			
Other		81		17		652		208			
Total other income		25,535		8,654		64,525		23,114			
Income (loss) before income tax expense		28,834		5,829		68,593		(19,417)			
Income tax expense		4,581		854		14,013		1,315			
Net income (loss)	\$	24,253	\$	4,975	\$	54,580	\$	(20,732)			
Earnings (loss) per common share (Note 1):											
Basic	\$	1.33	\$	0.27	\$	2.99	\$	(1.15)			
Diluted	\$	1.31	\$	0.27	\$	2.96	\$	(1.15)			
Weighted-average number of common shares outstanding:											
Basic		18,292		18,093		18,243		18,014			
Diluted		18,489		18,103		18,416		18,014			
Condensed Consolidated Financial Statements and Notes related thereto within the Quarterly Report on Form 10-Q for the peri	od ended September 30,	, 2021.									

Appendix D: 10-Q Cash Flow⁽¹⁾

Appointed B. To & Oddit Hotel		Nine Months Ended September 30,							
(in thousands)		2021	2020						
Cash flows from operating activities									
Net income (loss)	\$	54,580 \$	(20,73						
Adjustments to reconcile net income (loss) to net cash provided by operating activities:									
Deferred income tax expense		9,046	10,72						
Depreciation, amortization, depletion and accretion		6,155	5,80						
Gain on extinguishment of debt		(3,345)	-						
Impairment of long-lived assets		_	26,10						
Operating lease expense		1,481	3,13						
Amortization of debt discount and debt issuance costs		945	1,06						
Gain on change in estimate, asset retirement obligation		(1,942)							
Stock-based compensation expense		1,476	2,07						
Earnings from equity method investments Other non-cash items, net		(61,944) (352)	(25,95 4						
Changes in operating assets and liabilities:									
Receivables and related party receivables		(2,835)	(1,33						
Prepaid expenses and other assets		(16)	(9,05						
Inventories, net		3,658	4,68						
Other long-term assets, net		2,383	(1,90						
Accounts payable		1,147	(1,12						
Accrued payroll and related liabilities		1,241	1,08						
Other current liabilities		(3,489)	(22						
Operating lease liabilities		(2,514)	(1,67						
Other long-term liabilities		(3,031)	(2						
Distributions from equity method investees, return on investment		22,044	42,22						
Net cash provided by operating activities		24,688	34,91						

⁽¹⁾ See complete, unaudited Condensed Consolidated Financial Statements and Notes related thereto within the Quarterly Report on Form 10-Q for the period ended September 30, 2021.

Appendix D: 10-Q Cash Flow (continued)(1)

	N	Nine Months Ended September 30,							
(in thousands)	2	021	2020						
Cash flows from investing activities									
Distributions from equity method investees in excess of cumulative earnings	\$	44,707 \$	_						
Acquisition of property, plant, equipment, and intangible assets, net		(5,403)	(4,879)						
Mine development costs		(1,262)	(723)						
Proceeds from sale of property and equipment		895	_						
Net cash provided by (used in) investing activities		38,937	(5,602)						
Cash flows from financing activities									
Principal payments on term loan		(16,000)	(18,000)						
Principal payments on finance lease obligations		(1,085)	(1,026)						
Dividends paid		(92)	(4,956)						
Repurchase of common shares		_	(159)						
Repurchase of common shares to satisfy tax withholdings		(241)	(531)						
Borrowings from Paycheck Protection Program Loan		24-111	3,305						
Net cash used in financing activities	1000	(17,418)	(21,367)						
Increase in Cash and Cash Equivalents and Restricted Cash	1 1 1 1 1	46,207	7,949						
Cash and Cash Equivalents and Restricted Cash, beginning of period		35,932	17,080						
Cash and Cash Equivalents and Restricted Cash, end of period	\$	82,139 \$	25,029						
Supplemental disclosure of non-cash investing and financing activities:		13.0							
Acquisition of property, plant and equipment through accounts payable	\$	128 \$	446						
Dividends payable	\$	- \$	47						

Appendix E: Non-GAAP Financial Measure & Consolidated Adjusted EBITDA Reconciliation to Net Income

Note on Non-GAAP Financial Measures

To supplement the Company's financial information presented in accordance with U.S. generally accepted accounting principles, or GAAP, this investor presentation includes non-GAAP measures of certain financial performance. These non-GAAP measures include Consolidated Adjusted EBITDA, APT Segment Adjusted EBITDA and RC Segment Adjusted EBITDA. The Company included non-GAAP measures because management believes that they help to facilitate comparison of operating results between periods. The Company believes the non-GAAP measures provide useful information to both management and users of the financial statements by excluding certain expenses that may not be indicative of core operating results and business outlook. These non-GAAP measures are not in accordance with, or an alternative to, measures prepared in accordance with GAAP and may be different from non-GAAP measures used by other companies. In addition, these non-GAAP measures are not based on any comprehensive set of accounting rules or principles. These measures should only be used to evaluate the Company's results of operations in conjunction with the corresponding GAAP measures.

The Company has defined Consolidated Adjusted EBITDA as net income, adjusted for the impact of the following items that are either non-cash or that the Company does not consider representative of its ongoing operating performance: depreciation, amortization, depletion and accretion, amortization of upfront customer consideration, interest expense, net, income tax expense; then reduced by the non-cash impact of equity earnings from equity method investments, gain n extinguishment of debt and gain on change of an estimate for asset retirement obligations and increased by cash distributions from equity method investments and impairment. The Company believes that the Consolidated Adjusted EBITDA measure is less susceptible to variances that affect the Company's operating performance.

Segment EBITDA is calculated as Segment operating income (loss) adjusted for the impact of the following items that are either non-cash or that the Company does not consider representative of its ongoing operating performance: depreciation, amortization, depletion and accretion, amortization of upfront customer consideration and interest expense, net. When used in conjunction with GAAP financial measures, Segment EBITDA is a supplemental measure of operating performance that management believes is a useful measure related the Company's APT segment performance and the APT segment performance relative to the performance of their respective competitors as well as performance period over period. Additionally, the Company believes these measure are less susceptible to variances that affect their respective operating performance results.

The Company defines RC Segment Adjusted EBITDA as RC Segment EBITDA reduced by the non-cash impact of equity earnings from equity method investments and gain on extinguishment of debt and increased by cash distributions from equity method investments.

The Company defined APT Segment Adjusted EBITDA as APT Segment EBITDA decreased for the gain on change of an estimate for asset retirement obligations and the gain on extinguishment of debt and increased for impairment.

The Company presents the non-GAAP measures because the Company believes they are useful as supplemental measures in evaluating the performance of the Company's operating performance and provide greater transparency into the results of operations. The Company's management uses Consolidated Adjusted EBITDA, RC Segment Adjusted EBITDA and APT Segment Adjusted EBITDA as factors in evaluating the performance of its business.

The adjustments to Consolidated Adjusted EBITDA, RC Segment Adjusted EBITDA and APT Segment Adjusted EBITDA in future periods are generally expected to be similar. Consolidated Adjusted EBITDA, RC Segment Adjusted EBITDA and APT Segment Adjusted EBITDA have limitations as analytical tools, and you should not consider these measures in isolation or as a substitute for analyzing the Company's results as reported under GAAP.

Appendix F: Consolidated Adjusted EBITDA Reconciliation to Net Income (Loss)

	Th	Three Months Ended September 30,					Nine Months Ended September 30,			
(in thousands)		2021		2020		2021		2020		
Net income (loss)	\$	24,253	\$	4,975	\$	54,580	\$	(20,732)		
Depreciation, amortization, depletion and accretion		2,145		1,777		6,155		5,807		
Amortization of Upfront Customer Consideration		127		-		381		_		
Interest expense, net		25		862		1,188		2,974		
Income tax expense	Midl	4,581		854		14,013		1,315		
Consolidated EBITDA (loss)		31,131		8,468		76,317		(10,636)		
Cash distributions from equity method investees		22,875		9,712		66,751		42,228		
Equity earnings		(22,195)		(9,518)		(61,944)		(25,959)		
Gain on extinguishment of debt		(3,345)		_		(3,345)		_		
Gain on change in estimate, asset retirement obligation		_		_		(1,942)		_		
Impairment		_		11 h —				26,103		
Consolidated Adjusted EBITDA	\$	28,466	\$	8,662	\$	75,837	\$	31,736		

Appendix G: RC Segment Adjusted EBITDA Reconciliation to Segment Operating Income

	Three Months Ended September 30, Nine Months Ended September							
(in thousands)	1000	2021		2020		2021		2020
RC Segment operating income	\$	26,341	\$	12,817	\$	73,517	\$	34,454
Depreciation, amortization, depletion and accretion		9		26		41		84
Interest expense		4		94		11		254
RC Segment EBITDA		26,354		12,937		73,569		34,792
Cash distributions from equity method investees		22,875		9,712		66,751		42,228
Equity earnings		(22,195)		(9,518)		(61,944)		(25,959)
Gain on extinguishment of debt		(97)		_		(97)		_
RC Segment Adjusted EBITDA	\$	26,937	\$	13,131	\$	78,279	\$	51,061

Appendix H: APT Segment Adjusted EBITDA Reconciliation to Segment Operating Income (Loss)

	Three Months Ended September 30,					Nine Months Ended September 30,			
(in thousands)		2021		2020		2021		2020	
APT Segment operating income (loss)	\$	4,591	\$	(3,280)	\$	4,864	\$	(40,649)	
Depreciation, amortization, depletion and accretion		2,004		1,603		5,706		5,386	
Amortization of Upfront Customer Consideration		127		-		381		B-41 -	
Interest expense, net		75		88		233		275	
APT Segment EBITDA (loss)	\$	6,797	\$	(1,589)	\$	11,184	\$	(34,988)	
Gain on extinguishment of debt		(2,562)				(2,562)		1	
Gain on change in estimate, asset retirement obligation		_		- 1		(1,942)		_	
Impairment		_		_		_		26,103	
APT Segment Adjusted EBITDA (loss)	\$	4,235	\$	(1,589)	\$	6,680	\$	(8,885)	