SECURITY ANALYSIS

Tetra Tech, Inc. TTEK

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Contents

Engagement Letter	2
Strategic Analysis	3
Financial Statements Analysis	14
Public Comparable Analysis	22
Discounted Cash Flow Methods	28
Valuation Chart	34
Recommendation	35
Appendix	36
Works Cited	41

Security Analysis Tetra Tech, Inc. TTEK Nick Drake



Tetra Tech, TTEK, is a consulting and engineering firm with a primary focus in the Environmental and Facility Services sub-industry. It is a mid-cap company with a current stock price, as of April 30th, 2021, of \$127.64. This analysis covers Key Ratios and Financial Statements as well as Market Comparable and Discounted Cash Flow methods. After applying each method carefully, I conclude that TTEK's estimated share price is \$147.47. Assumptions used in the analysis were some ratios (P/E, P/B) were TTM rather than Forward due to limited access of peer companies. EV/Sales in my Market Comparable Analysis was inflated and therefore left out of the weighted valuation calculation.

Strategic Analysis

Nature and History

Tetra Tech Inc. is an engineering and consulting firm out of Pasadena, California. Their mission statement is to be the premier worldwide consulting and engineering firm, focusing on water, environment, infrastructure, resource management, energy, and international development services. Four core principles determine how Tetra Tech will succeed in the industry which are: service, value, excellence, and opportunity. They provide solutions to problems in water, environment, infrastructure, resource management, energy, and international development. They operate in over a dozen countries worldwide and are recognized as the leading firm for water solutions by ENR for 18 years straight. TTEK is currently a part of two major business groups, Government Services Group (GSG) and Commercial/International Services Group (CIG). This involvement helps TTEK to manage clients and develop new company ideals to further engage with clients. Tetra Tech offers high-end technical expertise, experience, disciplinary capabilities, and global reach to all clients, large or small.



Projects

TTEK is a consulting and engineering firm. Their source of income comes from contracts with clients which need their expertise.

- Water Leading Firm in Water Solutions
 - Provide access to safe, abundant water supplies
 - o Treat stormwater and wastewater
 - o Flood control and restoration tools
 - o Watershed protection
- Environment
 - Range of services offered to present clients with a solution that is feasible and long-term
- Energy
 - Over 1,000 Projects Wind, Solar, Waste Management (Coal)
 - o Assist public and private sectors in developing public-private partnerships

- Emergency and Disaster Recovery Management
- Defense Services
 - Working with USAF on multiple projects

Customers and Suppliers

<u>Customers</u> – TTEK works with local governments around the world. Other customers include large corporations in other services industries and small businesses that require aid.

<u>Suppliers</u> – Provide Tetra Tech with the necessary equipment, advise, and materials to ensure the job is done. TTEK is committed to environmentally friendly and safe ways to do business. They have an automated procurement tracking system which contains a list of suppliers and adopts new potential ones. They continually do business with local small businesses and have esteemed relationships with large businesses. Tetra Tech is an active mentor for the U.S. government in its Mentor Protégé program.

Competition

Tetra Tech has many competitors, as the work with multiple industries. Their top competition would naturally be other engineering and consulting firms, however, Tetra Tech does most of their projects which compete with companies in the sub-industry Environmental and Facilities Services. Therefore, TTEK's top competitors are companies which consistently bid on the same contracts.

Due to the many competitors, I will break down lists from two sectors: Engineering Services and Environmental and Facilities Services. Engineering Services is labeled as TTEK's competition outside of their primary income source. Environmental and Facility Services is labeled as TTEK's competition in the industry TTEK is most involved. The focus of this list is looking at the competitions financials to understand the business' operation from a number's standpoint.

Engineering Services Sector

- Aecom Technology Corporation Ticker: ACM
 - o Consulting, Planning, Construction Management, Asset Management
 - Located in California
 - Offer similar services as TTEK
 - Higher Sales, Negative Revenue and Earnings Growth over a 5-year span
 - Offer Negative Returns
- Mistras Group, Inc. Ticker: MG
 - Asset Protection Solutions
 - Negative Profit Margin
 - -53% 5-Year Return
- Stantec Inc Ticker: STN
 - Consulting services in engineering and architecture
 - Offer slightly different services than TTEK but can still interfere with certain contracts
 - Similar financials to TTEK
 - Operate in more markets than TTEK, main market is infrastructure
 - Positive EPS growth and Sales, lower Market Capitalization than TTEK

These competitors can potentially replace Tetra Tech with some contract bids based on their focused market, but overall do not interfere with Tetra Tech's focused sector, which is Environmental and Facility Services.

Environmental and Facility Services

Environmental and Facility Services is Tetra Tech's primary sub-industry. These competitors are important because they can potentially decrease a major portion of TTEK's sales. This list includes companies that are seen as potential alternatives to TTEK when a government or company is scanning a list of bids on a certain contract.

- Waste Management Ticker: WM
 - The largest company/competitor in the sub-industry
 - Waste Solutions
 - Slow growth WM has matured as a company and has limited room for growth
 - Higher EPS WM's earnings per share is higher than TTEK and has a lower Beta, signaling a less risky investment
 - TTEK needs to innovate their methods to win a contract over WM
 - More growth opportunities based on business cycle and larger market footprint than WM
- Republic Services Ticker: RSG
 - Waste Solutions
 - Larger Company than TTEK, offers similar EPS
 - Also, slower growth with a less volatile beta than TTEK
 - Safer investment, but lose the opportunity to gain a higher return over time
 - Focuses on responsible waste solutions, not as innovative as TTEK

Why include waste solution companies as competition for TTEK?

TTEK offers their own waste solutions to projects. A company/government looking at potential bids may pick an alternative engineering company that does not offer waste solutions indicating a lower price. Whereas Tetra Tech includes the waste solutions and relies on the offeror to not overlook this aspect. This issue marks the importance of TTEK creating costeffective methods based on competition.

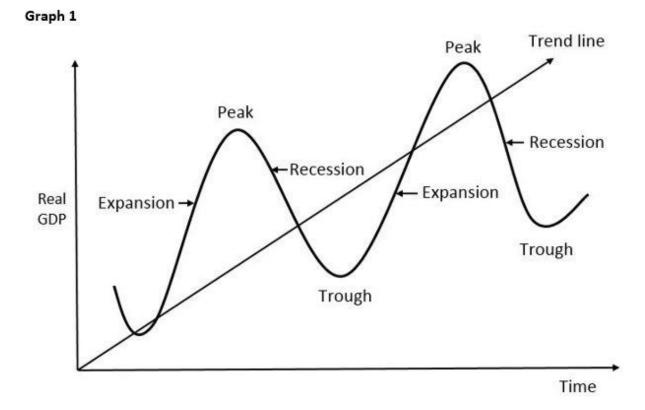
- Rollins, Inc. Ticker: ROL
 - Industrial Pest Control Company
 - Another company that could potentially take a services contract from TTEK
 - Very low EPS, higher margins
 - Another alternative to TTEK's own solutions
 - Potentially taking some of a contract over TTEK less profitable for TTEK
- Clean Harbors Ticker: CLH
 - \circ $\,$ Focus on Waste Solutions, but offers many different services which combats $\,$

TTEK's Environment and Emergency Response/Clean-Up solutions

- TTEK has superior Net Income and EPS
- Casella Waste Systems Ticker: CWST
 - Small Company with room for growth
 - Higher Beta signifying it is a riskier buy, but could offer more returns
 - Main Market is recycling service and competes with TTEK's environmental market

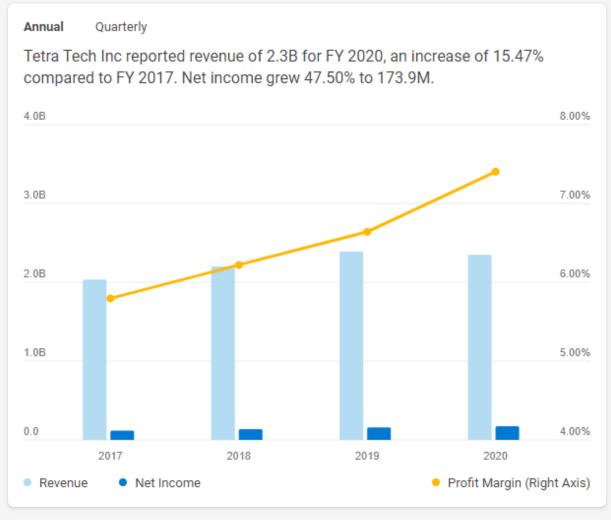
Why include Pest Control and more Waste Solution companies?

These companies can directly impact Tetra Tech's sales and are seen as alternatives to offerors. TTEK must innovate their own solutions to counter these companies and their solutions. Tetra Tech operates in many markets; therefore, they can potentially fall behind in this market which will impact their earnings long-term.



Business Cycle

A business cycle is a never-ending cycle of peaks and trough's that follow a company through maturity.



See more on MSN · Data from Refinitiv · NLS Real-Time Price · Price in USD · Disclaimer

Based on this chart with data from Refinitiv, TTEK is currently in a growth (Expansion) phase in their business cycle. They have shown no signs of lacking revenue, which could lead to an expectation of a company recession in the coming years, however, this is something that is predictable if their revenues and margins begin to thin and slow.

Political	Economic	Social	Technological	Legal	Environmental
Government Stability	Exchange	Hiring	Advances	Anti-Trust	Regulations
Stubility	Rates	Methods		Laws	
Corruption	Government	Skill	Cost	Discrimination	Climate
	Influence	Level	Structures		
Tax Policies	Unemployment	Education	Competitive	Health and	Endangered
	Rates	Standards	Timeline	Safety	Species
Legal	Inflation	Cultures	Research and	Tax Policies	Production
Framework			Development		Hazards
Employee	Business Cycle	Company	Copyright and	Copyright and	Social
Benefits		Attitude	Patents	Patents	Responsibility

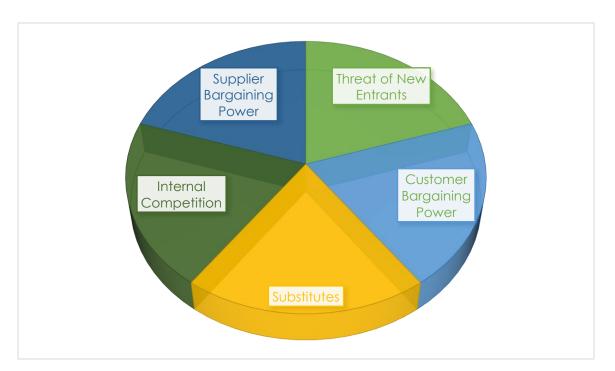
PESTEL Analysis

A PESTEL analysis looks at 6 factors: Political, Economic, Social, Technological, Legal, and Environmental. Some factors overlap with things such as Tax Policies, Benefits, Copyright Laws, but have a different understanding within each factor. Tetra Tech operates on a global scale, this means working with various governments to complete an environmentally ethical project. Social factors introduce issues for TTEK as they can bring engineers and other workers to a site but must rely on the community workforce for certain projects. This includes renting machinery that is unavailable to ship across the globe. Each section includes factors that affect TTEK in the way they operate. It is up to Tetra Tech to combat these issues and respect them in a way that does not affect their operations.

Industry Analysis

Sustained Profitability

- TTEK operates in many industries, but overall is an engineering firm
 - Engineering is one of the most sought-after jobs worldwide and is necessary to adapt to certain global situations and make life easier for our species
 - There is an endless number of solutions to an endless number of issues in the world and TTEK has the supplies necessary to solve them



Porter's Five Forces

 <u>Threat of New Entrants</u> – TTEK could reduce this threat by introducing new technology and producing innovative solutions to raise the bar for new companies to enter the market

- 2. Supplier Bargaining Power Tetra Tech works hard to maintain healthy relationships with their suppliers. This can be an issue if they become too friendly and allow the supplier to charge more for relatively cheap supplies. TTEK needs to maintain relationships to maintain their supplier base. There are a limited number of suppliers TTEK operates with due to their guidelines and requirements. If TTEK makes it seem like an achievement to supply them, they will be able to limit bargaining power from suppliers.
- 3. <u>Customer Bargaining Power</u> TTEK holds valuable connections with their service groups and has a strong network of customer connections. Every company would prefer a specific number of customers based on supplies but need to make good deals to thrive as a company. Tetra Tech's connections and reputation keeps their bargaining power with customers high.
- <u>Substitutes</u> Differentiation and increasing company scale is necessary to thrive in the Environmental and Facility services industry.
- 5. <u>Internal Competition</u> Existing competition within the industry continues to adapt to help their company thrive. TTEK can counter this by continuing to adapt and over-achieve their goals without spending too much on supplies. This requires a necessary ability to limit the cost of goods sold.

Tetra Tech is in a good position competitively. If they can continue to satisfy customers, their name will not be overlooked on contract bids and most likely secure the deal. The company's social image is very important and the methods they use are ideal in keeping a strong image to the communities they work in. Within the industry, TTEK is around the middle, but massive growth in recent years has pushed them towards the top, with no signs of slowing growth.

Financial Statements Analysis

Horizontal/Vertical Analysis of Income Statement and Balance Sheet 2016-2020

Vertical Analysis of Income Statement and Balance Sheet

Income Statement

- Cost of Goods Sold % of Revenues down from 87.21% in 2016 to 85.62% in 2020.
- Replaced by a steady increase in Gross Income % of Revenues from 12.73% in 2016 to 14.65% in 2020
- Net Income % of Revenues gradually increased from 3.25% in 2016 to 5.81% in 2020.
- Notable trend is a decrease in costs of goods sold leading to an increase in profit margin.

Balance Sheet

- Accounts receivable % of total assets decreases nearly 10% from 40.48% in 2016 to 31.98% in 2020.
- Leads to a decrease in current assets % of total assets from 51.97% in 2016 to 42.01% in 2020.
- Large jump in Net PP&E % of total assets from 1.83% in 2019 to 11.55% in 2020.
- No notable jumps in total liabilities and shareholder's equity

Trends

- Services are becoming more profitable.
- PP&E increase shows growth potential worldwide
- Steady growth in revenues over 5-years show no sign of slowing down.

Horizontal Analysis of Income Statement and Balance Sheet

Income Statement

- % Sales increased 15.89% in 2020 from 2016
- Gross Income increased from 328M in 2016 to 438M in 2020.
- Non-Operating Income/Expense made strange jumps from 2016-20... numbers are low enough to not raise a concern.
- Current Domestic Income Tax decreased over the 5-year span while Current Foreign Tax increased
- Net Income had a 100M jump from 2016... a 107.52% increase.

Balance Sheet

- Total Current Assets increased 6.88% 2016-20 and Total Assets increased 32.22%
 - Explained by a 207M increase in Net PP&E, 243M increase in Intangible Assets, and a 29M increase in Other Assets.
- ST Debt and Current Portion LT Debt increased over 600% helping Current Liabilities increase 65% from 2016.
- Total Liabilities increased 43.87% and Total Equity increased 19.62%

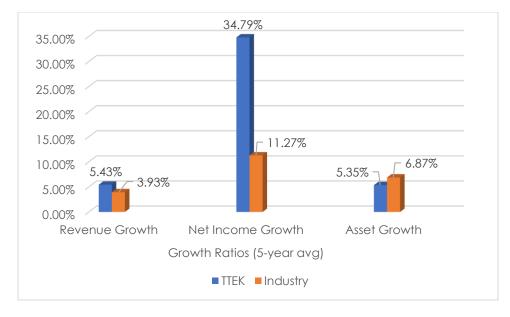
Trends

- Sales and Net Income increasing steadily, and Current Foreign Income Tax show a larger footprint outside of the U.S.
- Increase in Assets also leading to an Increase in Current Liabilities show an increase in contracts being made.

Key Ratios

*All industry averages were collected from the Environmental and Facility Services subindustry. The numbers used were taken from the peer group TTEK is associated with later in the analysis

Growth Ratios



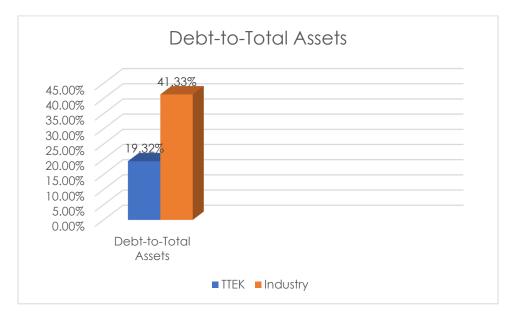
- Revenue growth is stronger than the industry average.
- Income Growth is very high compared to the industry average and is possible effected by big contracts TTEK has recently won.
- Asset Growth is slightly lower than the industry average although this does not raise a concern

Liquidity Ratios



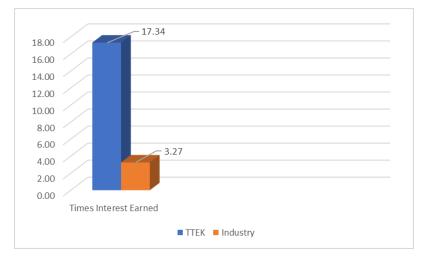
- TTEK's Current Ratio, although smaller than the industry average, shows they can still pay off all current liabilities through current assets... They are less liquid than competitors.
- The Quick Ratio shows quick assets that can be used to cover current debt obligations, the numbers show that TTEK and the industry have very similar quick ratios
- TTEK's Current Ratio is less ideal indicating the company has lower liquidity than its competition.
- Compared to industry average, TTEK fits in, but does not show any sign of becoming more liquid

Leverage Ratios



- TTEK has a lower Debt-to-Total Assets indicating it holds less leverage, therefore is a less risky investment
- TTEK is funded by equity mainly, while the industry seems to be funded by liabilities.

Neither TTEK nor the industry holds more liabilities than assets



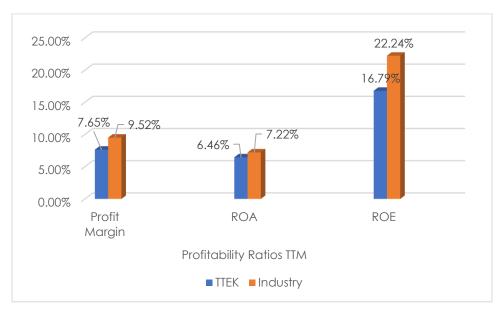
• TTEK has more room to cover its debts over the industry average

Asset Management



- TTEK's asset turnover is higher than the industry average, indicating they are more efficient in generating revenue through assets
- TTEK does not hold inventory, this ratio is irrelevant for the company and left out because of this.

Profitability Ratios



Profit Margin

• TTEK has a lower profit margin compared to its matured competition, implying they will eventually surpass them.

Return on Assets

• TTEK shows a similar ROA to the industry average signaling a similar use of assets for income.

Return on Equity

• TTEK's ROE is less than the industry average and shows us that they hold decent profitability in terms of their equity

Market Ratios



- TTEK holds a high TTM P/E ratio after a successful year, one that mimicked the industry
- The M/B value shows that investors are willing to pay approximately \$6.50 for every \$1 TTEK generates... investors expect good things to come from TTEK

Summary

- Each ratio analysis and horizontal/vertical analysis signals that TTEK is growing rapidly in the industry
 - Their increased revenues with a dip in COGS indicate they are making proper transitions internally to increase income and profit margin
- TTEK still trails the industry in a few key ratios, but it is more so their numbers alone that show me how they are financially as a company
- These numbers lead me to estimate the company has more room for growth before reaching a mature state like their competition

Public Comparable Analysis

Methodology

This relative valuation method uses ratios of companies like Tetra Tech to determine Tetra Tech's equity value. This valuation method helps the analyst determine a valuation range rather than one specific stock price the share should trade at. Notable advantages of this method are that it is easily understandable, fewer assumptions are used and it can give insight to the way the market is moving currently.

Peer Group

Tetra Tech is one of the top water and environmental services firms in the world. This led me to pick other competitive companies within the Environmental and Facilities services sub-industry. Each company has a market capitalization less than \$60bn and greater than \$3bn. Each company in the selection group share similar multiples I used for the valuation.

Multiples

- Enterprise Value (EV) and Price (P)
 - o EV/Sales
 - Indicates a company's attractiveness in the market
 - How much is needed to purchase the company based on its sales
 - Considers equity and debt
 - o EV/EBITDA
 - How many times EBITDA is needed to purchase the company

- o EV/EBIT
 - Modified multiple of P/E ratio
- P/E*
 - Matches current share price to earnings per share
- o P/Book*
 - Compares market value of a company to book value
- P/E and P/Book are TTM as a portion of the peer group has no forward P/E or P/Book publicly available

Competition

- Waste Management (WM)
 - Well established company in the sub-industry
 - Market Capitalization of \$56,743m
 - More profitable than TTEK, but TTEK has room for growth
- <u>Republic Services (RSG)</u>
 - Market Cap of \$32,860m
 - Similar EPS and ROE
- <u>Rollins (ROL)</u>
 - Market Cap of \$17,471m
 - Beta of 0.42, very low volatility
 - Higher Earnings, less revenue than TTEK
- <u>Clean Harbors (CLH)</u>
 - Market Cap of \$4,819m
 - Close P/E, EV/Sales to TTEK

- Casella Waste Systems (CWST)
 - Market Cap of \$3,351m
 - Highest P/E ratio of the group, lowest Net Income and Revenue

Findings

Company Nama	Markat Can	F)/		EV/Sales	_					D	
Company Name	 Market Cap	 EV	_	EV/Sales		V/EBITDA	_	EV/EBIT	 P/E TTM	P/	Book TTM
Waste Management	\$ 56,743.00	\$ 70,100.00		4.61		17.57		30.11	37.20		7.70
Republic Services	\$ 32,860.00	\$ 42,190.00		4.16		15.88		28.11	34.70		3.90
Rollins, Inc	\$ 17,471.00	\$ 17,750.00		8.22		39.38		42.80	68.70		19.00
Tetra Tech	\$ 7,798.00	\$ 8,120.00		2.74		30.08		31.21	41.10		6.60
Clean Harbors	\$ 4,819.00	\$ 5,970.00		1.90		10.98		23.68	36.90		3.70
Casella Waste Systems	\$ 3,351.00	\$ 3,800.00		4.91		24.28		50.20	35.80		9.50
TTEK Current Price: \$127.64			_								
Basic Shares Outstanding: 58.19											
Median				4.61		17.57		30.11	36.90		7.70
Enterprise Value			\$	13,661.75	\$	4,742.97	\$	7,833.81			
Total Equity Value			\$	13,339.75	\$	4,420.97	\$	7,511.81	\$ 7,001.12	\$	9,097.67
Equity Value Per Share			\$	229.24	\$	75.97	\$	129.09	\$ 120.31	\$	156.34
Mean				4.76		21.62		34.98	42.66		8.76
Enterprise Value			\$	14,106.28	\$	5,835.71	\$	9,100.85			
Total Equity Value			\$	13,784.28	\$	5,513.71	\$	8,778.85	\$ 8,093.98	\$	10,350.07
Equity Value Per Share			\$	236.88	\$	94.75	\$	150.87	\$ 139.10	\$	177.87

Median

• Using the Median of each multiple, TTEK is considered undervalued in EV/Sales and

P/Book

- High EV/Sales indicate investors believe that sales will greatly increase in the future
- A P/B ratio of 7.7 fits in relatively nicely among the peer group and shows that TTEK has room for more growth

Mean

- The average of the selection group shows that TTEK is mostly undervalued now
 - A good sign showing that compared to its competition, it is mostly undervalued and more attractive to investors

Final Range

Multiples						
		8.22	39.38	50.20	68.70	19.00
		4.76	21.62	34.98	42.66	8.76
		4.61	17.57	30.11	36.90	7.70
		1.90	10.98	23.68	34.70	3.70
Equity Value						
	\$	413.10	\$ 177.15	\$ 218.92	\$ 224.00	\$ 385.78
	\$	236.88	\$ 94.75	\$ 150.87	\$ 139.10	\$ 177.87
	\$	229.24	\$ 75.97	\$ 129.09	\$ 120.31	\$ 156.34
	\$	91.23	\$ 45.40	\$ 100.34	\$ 113.14	\$ 75.13

A valuation range shows what the likely price of a share in TTEK will be at depending on the mood of the market. The high values are extremely high and are most likely if there is a bubble in the industry, therefore, those values were deemed to be too high for a true range. My high estimate for TTEK is \$160, Mid estimate is \$135, and low is \$125. Based on the peer-group the low estimate seems high, but TTEK's signs of growth as a company lead me to believe that the low range will increase through the 2021 fiscal year. Due to the highly inflated/deflated highs and lows, they were not used in determining my valuation range. These outliers are from certain companies having inflated numbers that fluctuate greatly on a yearly basis.

Valuation Range

High: \$150 – Based on a healthy market and how TTEK is seen by investors – a strong company with a lot of room for growth in their industry

Mid: \$135 – The market is normal, TTEK has shown signs of growth and the share price will reflect this.

Low: \$115 – Near a recession or TTEK has made poor decisions. This low estimate is for future reference, not a day-to-day interpretation of the stock price.

Discounted Cash Flows Method

Gordon Growth and Exit Multiple Strategy

The discounted cash flow method (DCF) helps to valuate a company based on expected cash flows over a horizon period. The present value of these expected cash flows is discounted by using the weighted average cost of capital (WACC). I will go into further detail about the methods used after listing some advantages of a DCF model.

Advantages

- Does not require comparable companies
 - This methodology uses numbers from financial statements are key ratios solely from the company being analyzed
- Grants the idea of an intrinsic value
 - o A DCF helps understand the underlying value of the company and its cash flows
- Relies on free cash flows
 - Free cash flows are unrestricted in a way they are not involved with certain accounting policies which may affect a company's earnings
- Simple to understand
 - The end of the DCF model shows an estimate of what the company is worth without needing to explain many intricate details

Calculating Free Cash Flows

<u>Finding WACC</u> – The weighted average cost of capital is used as the discount factor when finding the present value of the cash flows. I use it as the first step to my model.

Weight of Debt	Weight of Equity	AT Cost of Debt	Beta	Rf	Market Risk	Cost of Equity	WACC
0.0505	0.9495	1.99%	0.8956	2.25%	5.75%	7.40%	7.13%

The weight of debt = Total Liabilities / (Total Liabilities + Total Equity) and the weight of equity is simply 1 – weight of debt as they must equal 1. Total Liabilities are the two-year averages of

The WACC = (Weight of Debt*After-Tax Cost of Debt) + (Weight of Equity*Cost of Equity)

short-term and long-term debt and total equity is the market capitalization. The after-tax cost of debt was calculated by taking the book value of debt / interest expense. The Beta, Risk-Free Rate, and Market Premium were all found by online sources and used to determine the Cost of Equity.

Steps to Calculate Free Cash Flows

- 1. Determine a Horizon Period I found that a 5-year time horizon with a terminal growth period was necessary when looking to find TTEK's equity value per share.
- Estimate Sales Growth Using an estimation to find the growth rate of the company, I calculated the sales growth in 2021 to 2026 (the terminal period).
- Use the estimated Growth Rate and Sales Growth to find future EBIT, Taxes, Operating Cash Flows, Change in Net Working Capital, and Change in Capital Expenditures
- 4. Find the future Free Cash Flows By subtracting Operating Cash Flows, Change in NWC, and Change in CAPEX This allowed me to then discount the Free Cash Flows and find the Enterprise Value

Forecast Period Selection

Due to Tetra Tech's current location in their business cycle, I estimate that there is a lot of room for growth in the company. I estimate that it will take roughly 5 years until their growth period slows and caps out. Based on Key Ratios such as Net Income and Revenue growth as well as their Profitability Ratios, I am comfortable with a relatively high growth rate over this 5-year span. Relative companies also showed signs of massive growth over a similar timeframe and I feel it is necessary to include Tetra Tech as one of their relative companies.

Assumptions

- Growth Rate Determining the growth rate and terminal growth rate for a DCF analysis is necessary to reach a final equity value for the firm. 2021E is 18% and decreases to 3.5% for the terminal period (2026E)
- Forecast Period TTEK's forecast period is an estimate made by looking at their financials and previous growth to determine when the company goes into a mature state, which will see the company have a strict growth rate of 3.5%

Estimating the Terminal Value

I used the Perpetuity Growth Rate Method and the Exit Multiple Method to get a range in which I can correctly estimate the terminal value. The Perpetuity Growth Rate method assumes the company will generate FCF's at a constant rate forever once it reaches the terminal period. The Exit Multiple Method assumes that the company is sold, in this case, for EBITDA and takes the terminal value of EBITDA and uses an estimate from the market comparable approach to find the company's enterprise value.

Perpetuity Growth Rate Model

Calculating the Terminal Value

I used the Terminal Period's FCF and multiplied it by the terminal growth rate and took that over the WACC – Terminal Growth Rate

Terminal Value	11,217.39
PV of Terminal Value	7,949.44
Enterprise Value	8,993.15
Less Net Debt	322.00
Cash & Equiv	157.52
Equity Value	8,828.66

After taking the present value of the terminal value I can find the enterprise value. Then, I subtract Net Debt and add Cash and Cash Equivalents to find the estimated Equity Value of the firm.

Shares Outstanding	58.19
Price Per Share	\$ 151.72

Taking the estimated Equity Value over TTEK's shares outstanding my estimation for price per share is \$151.72. Consider that this value only matters if TTEK continues to grow at a rate of 18% down to a terminal rate of 3.5%. Also consider that this value, in my opinion, is valid and TTEK is generating enough sales and revenue to reach this price soon.

Exit Multiple Approach

Calculating the Terminal Value

This method focuses on EBITDA from the comparable approach. I estimated the exit multiple to be 18.0x by finding the middle ground between my Average and Median multiples for EV/EBITDA. I then found the EVITDA % of Sales to calculate the future growth of EBITDA until reaching the terminal period, multiplied it by the exit multiple and found the present value based on the information available.

Terminal Year EBITDA	557.05
Exit Multiple	18
Terminal Value	10,026.83
PV of TV	\$7,105.72

With this information I did the same method used in the Perpetuity Growth Model to find the Enterprise Value, then the Equity Value of TTEK.

Equity Value	8,418.67
Cash and Cash Equiv	157.52
Less Pref. St & Min Int	0.08
Less Net Debt	322.00
Enterprise Value	8,583.16

From there, I took the Equity Value / Shares Outstanding:

Shares Outstanding	58.19
Price Per Share	\$ 144.68

My value was like the perpetuity growth model. The price can easily fluctuate with each exit multiple chosen. The companies used in the peer selection group seem to have matured in their

business cycle and have limited growth opportunities. If the exit multiple were 25.0x rather than 18.0x:

Price Per Share	\$ 192.16
Shares Outstanding	58.19

The price per share jumps \$50 and shows more TTEK will continue to rise. However, this is a speculation and I firmly believe an exit multiple of 18x is this correct choice and considers more reasonable expectations for the company.

Sensitivity Analysis

That last point raises the question of how a range of values could look if we are given certain assumptions. This sensitivity analysis helps explain how variables impact the equity value and price per share of TTEK. In this analysis I see how a different WACC, terminal growth rate, and exit multiple can impact the price per share of TTEK. These combinations can help identify certain "what-if" scenarios and show the impact on the dependent variable, price per share. Assumptions in this analysis are that all other variables are held constant while changing one variable to see its impact on the price/share.

Sensitivity Analysis on Perpetuity Growth Model

Changes to the Terminal Growth Rate and WACC show different scenarios to TTEK's Price per Share and can help derive a fitting range of values for the company based on these adjustments. The values highlighted in yellow are the most likely range of values for TTEK's proper price per share given my assumptions.

	Sensitivity Analysis													
	7.409	6	7.30%		7.20%		7.13%		7.00%		6.90%		6.80%	
3.80%	\$ 151.33	\$	155.94	\$	160.81	\$	164.40	\$	171.48	\$	177.33	\$	183.57	
3.70%	\$ 147.54	l \$	151.91	\$	156.53	\$	159.93	\$	166.62	\$	172.14	\$	178.01	
3.60%	\$ 143.94	l \$	148.10	\$	152.49	\$	155.71	\$	162.04	\$	167.25	\$	172.79	
3.50%	\$ 140.53	\$	144.49	\$	148.66	\$	151.72	\$	157.73	\$	162.66	\$	167.89	
3.40%	\$ 137.29) \$	141.06	\$	145.04	\$	147.95	\$	153.65	\$	158.33	\$	163.28	
3.30%	\$ 134.21	. \$	137.81	\$	141.60	\$	144.37	\$	149.80	\$	154.24	\$	158.93	
3.20%	\$ 131.27	'\$	134.72	\$	138.33	\$	140.98	\$	146.15	\$	150.37	\$	154.83	

WACC is the horizontal column and Terminal Growth Rate is the vertical rows.

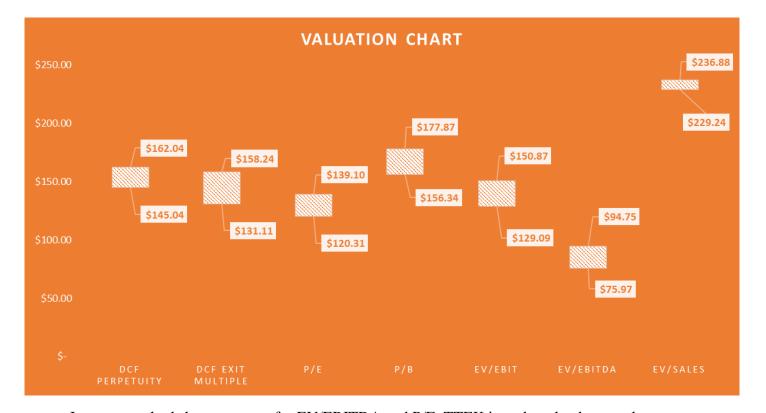
Sensitivity Analysis on Exit Multiple

This variable shows what we would expect, an increase in share price as the exit multiplier increases. If TTEK can increase their EBITDA over the coming years, their price/share will increase. This means they need to bring in new customers and maintain a customer base over the competition.

Exit Multip	le Sens	itivity
20x	\$	158.24
19x	\$	151.46
18x	\$	144.68
17x	\$	137.89
16x	\$	131.11

Valuation Chart

This chart depicts the highs/lows of the sensitivity analysis and the median and average for the comparable method to gain a visual on the price fluctuations of TTEK.



As of April 30th, TTEK was trading at \$127.64

In every method shown, except for EV/EBITDA and P/E, TTEK is undervalued currently. EV/Sales is too high given the reports from the peer companies and TTEK, it is not used to

determine a true value range.

	Weight	ed Average Ca	alculation		
Method	Va	luation	Weight	Weig	ghted Value
DCF Perpetuity	\$	151.72	0.18	\$	26.80
DCF Exit Multiple	\$	144.68	0.17	\$	24.37
P/E	\$	139.10	0.16	\$	22.53
P/B	\$	177.87	0.21	\$	36.83
EV/EBIT	\$	150.87	0.18	\$	26.50
EV/EBITDA	\$	94.75	0.11	\$	10.45
	\$	858.99	1.00	\$	147.47

Weighted Average Valuation

After taking the valuations from each method, finding a weight, and adding them together I get a weighted average value for TTEK of \$147.47.

Recommendation: After reviewing the financials of Tetra Tech, Inc. and using multiple methods to determine a proper share price, I believe the company is undervalued and worth investing in as of today. Thank you for your time.

EPS (Basic) Basic Shares Outstandning (Milions) EPS (Diluted) Diluted Shares Outstanding (Milions) EBITDA (Milions) Unusual Expense EBIT after Unusual Expense Non-Operating Interest Income Equity in Affiates (Pre-Tax) Interest Expense Gross Interest Expense Depreciation And Amortization Depreciation Amortization of Intangibles Gross Income Pre-Tax Income Income Tax Current Domestic Current Foreign Deferred Domestic Deferred Poreign Consolidated Net Income Minority Interest Expense SG&A Expense Other SG&A COGS Net Income In Millions 2016 2,580 2,250 45 23 23 23 22 328 160 160 160 133.8 328.510 160.190 34.440 133.880 1.3880 0.996 1.700 0.996 1.700 1.4.060 1.700 1.4.060 1.24.4700 1.24.4700 1.24.4700 1.24.4700 6.6200 6.620 6.620 6.620 6.620 6.620 6.620 6.620 6.6200 1.44 58.19 1.42 58.97 213.91 2.280.000 2.280.000 2.580.000 19.600 19.600 19.650 19.650 19.650 19.650 19.330 19.3490 (3.8490 19.3490 19.3490 (3.8490 19.45600 19.45600 19.45600 19.45600 19.45600 19.45600 19.456000 2.46 55.67 2.42 56.60 241.61 2,700,000 2,700,000 17,2,40 17,2,40 17,2,40 17,2,40 17,2,40 188,230 188,230 188,230 188,230 0,878 1,730 0,878 1,730 0,878 1,730 0,878 1,730 0,878 1,730 1,842 0,175,140 1,75,240 1,75,140 1,75,240 1,75,140 1,75,140 1,75,240 1,75,240 1,75,240 1,75,240 1,75,240 1,75,240 1,75,240 1,75,140 1,75,2 2.89 54.99 2.84 55.94 238.80 3.21 54.24 3.16 55.02 267.54 1470.000 150.000 1.4260 1.4260 1.4260 1.4260 1.4260 1.4260 1.4260 1.4260 1.4200 2016 - 201 6,59 6,67 0,37 (5,64) 6,64 1,45 1,45 (16,00) ((7.780) (3.800) (5.5660 20.460 (20.460 (20.460 (20.460 (20.460 (20.460 (20.460 (20.460 (20.460 (20.460 (20.660)(20.660) (20.660)(20.66 2016-2018 14.72 14.67 (17.09) (16.50) (17.65) (1 Horizontal Analysis \$50,000 (16,750) (10,500) (10,500) (10,500) (10,500) 79,670 38,040 38,040 38,040 (1,3,250) 54,860 (1,062) (1,062) 0,734 (1,7,14) 0,734 (1,2,20) 0,420 0,734 (1,2,20) 0,420 0,420 0,734 (1,2,20) 0,420, 2016-2019 2054 2008 (36.74) (26.87) (27.81) (47.81) (47.81) (47.81) (47.81) (40.89 (53.47) (53.47) (53.47) (53.6 310.000 (10.4800) (10.500) (10.500) (10.500) (34.880 (25.380) (34.880 (25.380) (34.880 (25.380) (34.880 (25.380) (3.48 (0.004) 90.080 88 2016-202 13.7.80 (46.02) (47.5.1) (47.5 $\begin{array}{c} 1100.00\\ 87.21\\ 1.77\\ 0.91\\ 1.23\\ 6.21\\ 1.33\\ 5.19\\ 0.08\\ 0$ 100.00 8.2.86 0.66 0.66 0.66 0.66 6.10 0.53 6.54 0.55 6.54 0.06 0.06 0.06 0.06 0.57 0.57 0.57 0.57 1.89 0.37 1.89 0.37 0.20 ION SIZ 0.0C 86,000 86,000 86,000 86,000 86,000 6,00

10000 85.82 0.84 0.34 14.65 6.52 0.35 6.52 0.35 0.65 7.82 0.35 0.35 7.63 7.63 7.63 7.63 7.63 5.81

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									Horizontal Analysis	nivsis					Ve Ve	ertical Analysis		
						2016-2017	710	2016-2018		2016-2019	019	2016-2020	20		0	ommon Size		
In Millions	2016	2017	2018	2019	2020	\$	%	\$	%	\$	%	\$	%	2016	2017	2018	2019	2020
Assets																		
Cash and Short Term Investments	162.96	192.68	148.89	120.93	157.52	29.72	18.24	(14.07)	(8.63)	(42.03)	(25.79)	(5.44)	(3.34)	9.05	10.14	7.60	5.62	6.62
Accounts Receivable	728.71	802.08	848.19	896.86	761.18	73.37	10.07	119.48	16.40	168.15	23.08	32.47	4,46	40.48	42.21	43.28	41.71	31.98
Accounts Receivable, Net Accounts Becalvable Cross	740.57	11,001	874 69	C3 300	741.0/	74,43	10.42	07.771	16.60	108.70	23.02	27.33	01 01	39.09	41.01	42.71	41.07	31.10
Rad Debt/Doubtful Accounts	(35.23)	(32.26)	(37.59)	(53.57)	/40.01	2.97	(8.43)	11.021	6.67 80.01	(18.34)	52.06	28.08	(79.70)	41.94	43.21	44.53	43.56	(0.30)
Other Receivable	14.37	13.31	11.09	13.80	19.51	(1.06)	(7.38)	(3.28)	(22.83)	(0.55)	(3.8.3)	5.14	35.77	080	0.70	0.57	0.64	0.82
Other Current Assets	43.76	47.27	53.30	62.00	81.09	3.51	8.02	9.54	21,80	18.24	41.68	37.33	85.31	243	2.49	2.72	2.88	3.41
Miscellaneous Current Assets	43.76	47.27	53.30	62.00	81.09	3.51	8.02	9.54	21.80	18.24	41.68	37.33	85.31	2.43	2.49	2.72	2.88	3.41
Total Current Assets	935.43	1,040.00	1,050.00	1,080.00	999.79	104.57	11.18	114.57	12.25	144.57	15.45	64.36	6.88	51.97	54.74	53.57	50.23	42.01
Net Property, Plant & Equipment	67.83	56.84	43.28	39.44	274.90	(10.99)	(16.20)	(24.55)	(36.19)	(28.39)	(41.85)	207.07	305.28	3.77	2.99	2.21	1.83	11.55
Property, Plant & Equipment - Gross	214.69	181.40	163.36	149.90	364.91	(33.29)	(15,51)	(51.33)	(23.91)	(64.79)	(30.18)	150.22	69.97	11.93	9.55	8.33	6.97	15.33
Buildings	3.68	3.68	0.41	0.37	0.19			(3.27)	(88.78)	(3.31)	(89.95)	(3.49)	(94.84)	0.20	0.19	0.02	0.02	0.01
Other Property, Plant & Equipment	30.26	27.69	31.43	34.88	34.38	(2.57)	(8.49)	1.17	3.87	4.62	15.27	4.12	13.62	1.68	1.46	1.60	1.62	1.44
Accumulated Depreciation	146.87	124.56	120.09	110.46	90.00	(22.31)	(15.19)	(26.78)	(18.23)	(36.41)	(24.79)	(56.87)	(38.72)	8.16	6.56	6.13	5.14	3.78
Total Investments and Advances	2.06	2.70	3.37	6.87	7.33	0.64	31.07	1.31	63.59	4.81	233.50	5.27	255.83	0.11	0.14	0.17	0.32	0.31
Intancible Assets	766.95	767.57	814.94	941.26	1,010.00	0.62	0.08	47.99	6.26	174.31	22.73	243.05	31.69	42.61	40.40	41.58	43.78	42,44
Net Goodwill	717.99	740.89	798.82	924.82	993.50	22.90	3.19	80.83	11.26	206.83	28.81	275.51	38.37	39.89	38.99	40.76	43.01	41.74
Net Other Intangibles	48.96	26.69	16.12	16.44	13.94	(22.27)	(45.49)	(32.84)	(67.08)	(32.52)	(66.42)	(35.02)	(71.53)	2.72	1.40	0.82	0.76	0.59
Other Assets	27.88	31.85	38.84	51.66	<u>इ</u> य.05	3.97	14.24	10.96	39.31	23.78	85.29	29.17	104.63	.1.55	1.68	1.98	2.40	2.40
Total Assets	1,800.00	1,900.00	1,960.00	2,150.00	2,380.00	100.00	5.56	160.00	8.89	350.00	19.44	580.00	32.22	100.00	100.00	100.00	100.00	100.00
Liabilities and Shareholders' Equity																		
ST Debt & Current Portion LT Debt	15.51	15.59	12.60	12.57	1 18.91	0.08	0.52	(2.91)	(18.76)	(2.94)	(18.96)	103.40	666.67	0.86	0.82	0.64	0.58	5.00
Short Term Debt					69.65							69.65						2.93
Current Portion of Long Term Debt	15.51	15.59	12.60	12.57	49.26	0.08	0.52	(2.91)	(18.76)	(2.94)	(18.96)	33.75	217.60	0.86	0.82	0.64	0.58	2.07
Accounts Payable	158.77	177.64	160.22	206.61	111.80	18.87	11.89	1.45	0.91	47.84	30.13	(46.97)	(29.58)	8.82	9.35	8.17	9.61	4.70
Other Current Liabilities	306.80	344 44	445 27	550 77	562 74	37 64	12.27	138.47	45.13	243.97	79.52	255.94	83.42	17.04	18.13	22.72	25.62	23.64
Dividends Payable			-			•				-		-						
Accrued Payroll	129.18	143.41	180.15	203.38	199.80	14.23	11.02	50.97	39.46	74.20	57.44	70.62	54.67	7.18	7.55	9.19	9.46	8.39
Miscellaneous Current Liabilities	177.62	201.03	265.12	347.39	362.94	23.41	13.18	87.50	49.26	169.77	95.58	185.32	104.34	9.87	10.58	13.53	16.16	15.25
Total Current Liabilities	481.09	537.67	618.09	769.95	793.46	56.58	11.76	137.00	28.48	288.86	60.04	312.37	64.93	26.73	28.30	31.54	35.81	33.34
Long-Term Debt	331.50	341.28	264.71	263.95	434.35	9.78	2.95	(66.79)	(20.15)	(67.55)	(20.38)	102.85	31.03	18.42	17.96	13.51	12.28	18.25
Long-Term Debt excl. Capitalized Leases	331.50	341.07	264.63	263.93	242.40	9.57	2.89	(66.87)	(20.17)	(67.57)	(20.38)	(89.10)	(26.88)	18.42	17.95	13.50	12.28	10.18
Non-Convertible Debt	331.50	341.07	264.63	263.93	242.40	9.57	2.89	(66.87)	(20.17)	(67.57)	(20.38)	(89.10)	(26.88)	18.42	17.95	13.50	12.28	10.18
Convertible Debt																		
Capitalized Lease Obligations		0.21	0.09	0.02		0.21		0.09		0.02					0.01	0.00	0.00	
Provision for Risks and Charges	25.26	25.20	30.20	29.50	35.00	(0.06)	(0.24)	4.94	19.56	4.24	16.79	9.74	38.56	1.40	1.33	1.54	1.37	1.47
Deferred Taxes	59.72	42.02	21.56	(15.41)	(15.74)	(17.70)	(29.64)	(38.16)	(63.90)	(75.13)	(125.80)	(75.46)	(126.36)	3.32	2.21	1.10	(0.72)	(0.66)
Deferred Taxes - Credits	60.35	43.78	30.17	12.97	16.32	(16.57)	(27.46)	(30.18)	(50.01)	(47.38)	(78.51)	(44.03)	(72.96)	3.35	2.30	1.54	0.60	0.69
Deferred Taxes - Debit	0.63	1.76	8.61	28.39	32.05	1.13	179.37	7.98	1,266.67	27.76	4,406.35	31.42	4,987.30	0.04	0.09	0.44	1.32	1.35
Other Liabilities	33.18	26.19	49.15	81.57	62.06	(6.99)	(21.07)	15.97	48.13	48.39	145.84	28.88	87.04	1.84	1.38	2.51	3.79	2.61
Other Liabilities (excl. Deferred Income)	33.18	26.19	49.15	81.57	62.06	(6.9)	(21.07)	15.97	48.13	48.39	145.84	28.88	87.04	1.84	1.38	2.51	3.79	2.61
Deterred Income	.						ŀ	ŀ	ŀ	ŀ	ŀ			ŀ	ŀ	ŀ	ŀ	ŀ
Total Liabilities	931.38	974.12	992.32	1,160.00	1,340.00	42.74	4.59	60.94	6.54	228.62	24.55	408.62	43.87	51.74	51.27	50.63	53.95	56.30
Non-Equity Reserves																		
Cammon Equity (Total)	869.26	928.45	966.97	989.29	1,040.00	59.19	6.81	97.71	11.24	120.03	13.81	170.74	19.64	48.29	48.87	49.34	46.01	43.70
Retained Earnings	736.36	832.56	944.97	1,070.00	1,200.00	96.20	13.06	208.61	28.33	333.64	45.31	463.64	62.96	40.91	43.82	48.21	49.77	50.42
Cumulative Translation																		
adjustmenvUnrealized For, Exch. Gain	(126.84)	(36.96)	(03.821)	(149.71)	(146.28)	68'72	(86' 12)	(1./6)	1.39	(22.87)	18.03	(19.44)	15.33	(7.05)	(5.21)	(90.9)	(96.9)	(6.15)
Iotal Shareholders' Equity	92.698	928.45	966.97	62,696	1,040.00	59.19	6.81	17.76	11.24	120.03	13.81	1/0.74	19.64	48.29	48.87	49.34	46.01	43.70
Accumulated Minority Interest	0.14	0.17	0.13	0.18	0.05	0.03	18.06	(0.01)	(9.72)	0.04	25.00	(0.09	(65.28)	0.01	0.01	0.01	0.01	0.00
lotal Equity	869.40	928.62	967.10	989.46	1,040.00	59.22	18'9	97.70	11.24	120.06	13.81	170.60	19.62	48.30	48.87	49.34	46.02	43.70
Liability and Shareholders' Equity	1,800.00	1,900.00	1,960.00	2,150.00	2,380.00	100.00	5.56	160.00	8.89	350.00	19,44	580.00	32.22	100.00	100.00	100.00	100.00	100.00
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Appendix

		Growth Ratios (5-year avg)									
	Revenue Growth	Net Income Growth	Asset Growth		In	dustry Ol	oserved: E	nvironmer	ital and Fa	cility Servi	ces
TTEK	5.43%	34.79%	5.35%			WM	RSG	ROL	CLH	CWST	Average
Industry	3.93%	11.27%	6.87%	Revenue Gro	wth	3.26%	2.18%	7.79%	-0.81%	7.22%	3.93%
	-	Liquidity Ratios (2020)		Net Income Gro	wth	14.72%	5.22%	11.38%	25.05%	0.00%	11.27%
	Current		Quick	Asset Gro	wth	6.38%	2.50%	11.92%	2.22%	11.34%	6.87%
TTEK	1.26		1.16								
Industry	1.33		1.14	Cur	rent	1.01	0.67	0.67	2.40	1.88	1.33
		Leverage Ratios TTM		C	uick	0.88	0.60	0.53	1.95	1.74	1.14
	Debt-to-Total Asset	s	Times Interest Earned								
TTEK	19.32%		17.34	Debt-Total As	sets	44.63%	37.13%	0.00%	44.35%	80.54%	41.33%
Industry	41.33%		3.27	Times Interest Ea	ned	5.89	4.21	-	3.28	2.95	3.27
		Asset Management TTM									
	Asset Turnover		Inventory Turnover	Asset Turn	over	0.55	0.44	1.20	0.76	0.73	0.74
TTEK	1.24		0.00	Inventory Turn	over	79.38	105.27	41.68	9.82	66.33	60.50
Industry	0.74		60.50								
		Profitability Ratios TTM		Profit Ma	rgin	9.97%	9.53%	12.07%	4.29%	11.76%	9.52%
	Profit Margin	ROA	ROE		ROA	5.53%	4.19%	14.53%	3.27%	8.57%	7.22%
TTEK	7.65%	6.46%	16.79%		ROE	21.96%	11.65%	29.69%	10.33%	37.58%	22.24%
Industry	9.52%	7.22%	22.24%								
		Market Ratios TTM			P/E	38.40	34.70	67.80	36.60	35.70	42.64
	P/E		M/B		M/B	7.70	3.90	18.80	3.60	9.40	8.68
TTEK	40.40		6.50								
Industry	42.64		8.68								

													E								В	ook Value		
Company Name	N	larket Cap	EV	EV/Sales	E١	V/EBITDA	_	EV/EBIT	_	P/E TTM	P/	Book TTM		Sales		EBITDA	_	EBIT		Earnings	0	of Equity	N	let Debt
Waste Management	\$	56,743.00	\$ 70,100.00	4.61		17.57		30.11		37.20		7.70	\$	15,206.07	\$	3,989.76	\$	2,328.13	\$	1,525.35	\$	7,369.22	\$	13,357.00
Republic Services	\$	32,860.00	\$ 42,190.00	4.16		15.88		28.11		34.70		3.90	\$	10,141.83	\$	2,656.80	\$	1,500.89	\$	946.97	\$	8,425.64	\$	9,330.00
Rollins, Inc	\$	17,471.00	\$ 17,750.00	8.22		39.38		42.80		68.70		19.00	\$	2,159.37	\$	450.74	\$	414.72	\$	254.31	\$	919.53	\$	279.00
Tetra Tech	\$	7,798.00	\$ 8,120.00	2.74		30.08		31.21		41.10		6.60	\$	2,963.50	\$	269.95	\$	260.17	\$	189.73	\$	1,181.52	\$	322.00
Clean Harbors	\$	4,819.00	\$ 5,970.00	1.90		10.98		23.68		36.90		3.70	\$	3,142.11	\$	543.72	\$	252.11	\$	130.60	\$	1,302.43	\$	1,151.00
Casella Waste Systems	\$	3,351.00	\$ 3,800.00	4.91		24.28		50.20		35.80		9.50	\$	773.93	\$	156.51	\$	75.70	\$	93.60	\$	352.74	\$	449.00
TTEK Current Price: \$127.64																								
Basic Shares Outstanding: 58.19																								
Median				4.61		17.57		30.11		36.90		7.70			E	V/Sales	E	V/EBITDA	_	EV/EBIT	_	P/E TTM	P/	Book TTM
Enterprise Value				\$ 13,661.75	\$	4,742.97	\$	7,833.81							\$	229.24	\$	75.97	\$	129.09	\$	120.31	\$	156.34
Total Equity Value				\$ 13,339.75	\$	4,420.97	\$	7,511.81	\$	7,001.12	\$	9,097.67												
Equity Value Per Share				\$ 229.24	\$	75.97	\$	129.09	\$	120.31	\$	156.34												
Mean				4.76		21.62		34.98		42.66		8.76			E	V/Sales	E	V/EBITDA		EV/EBIT		P/E TTM	P/	Book TTM
Enterprise Value				\$ 14,106.28	\$	5,835.71	\$	9,100.85							\$	236.88	\$	94.75	\$	150.87	\$	139.10	\$	177.87
Total Equity Value				\$ 13,784.28	\$	5,513.71	\$	8,778.85	\$	8,093.98	\$	10,350.07												
Equity Value Per Share				\$ 236.88	\$	94.75	\$	150.87	\$	139.10	\$	177.87												
Multiples																								
				8.22		39.38		50.20		68.70		19.00												
				4.76		21.62		34.98		42.66		8.76												
				4.61		17.57		30.11		36.90		7.70												
				1.90		10.98		23.68		34.70		3.70												
Equity Value																								
				\$ 413.10		177.15		218.92		224.00		385.78												
				\$ 236.88		94.75		150.87		139.10		177.87												
				\$ 229.24		75.97		129.09		120.31		156.34												
				\$ 91.23	\$	45.40	\$	100.34	\$	113.14	\$	75.13												

				Weighted Avera	ge Cost of Capital				
Total Liabilities	Total Equity	Weight of Debt	Weight of Equity	AT Cost of Debt	Beta	Rf	Market Risk	Cost of Equity	WACC
414,890,000	7,798,000,000	0.0505	0.9495	1.99%	0.8956	2.25%	5.75%	7.40%	7.13%
Stock Price	127.64								
# of Shares	58.19M				Book Valu	e of Debt			
					2 Yr avg of ST Debt	65.74			
Book Value of Debt	414.89				2 Yr avg of LT Debt	349.15			
Interest Expense	10.44					414.89			
Tax Rate	21.00%								
Cost of Debt	2.52%								

			Di	scounted Cash Flow			-	
				Tetra Tech				
	Reported			Horizon Period			Terminal	
	2020	2021	2022	2023	2024	2025	Period	
Cost of Capital	7.13%							
Terminal Growth Rate	3.50%							
EBIT %	8.11%							
n Millions								
Sales	2,990.00	3,528.20	4,092.71	4,747.55	5,412.20	6,169.91	6,385.86	
Growth Rate		18.00%	16.00%	16.00%	14.00%	14.00%	3.50%	
EBIT	242.47	286.11	331.89	384.99	438.89	500.33	517.84	
Taxes		60.08	69.70	80.85	92.17	105.07	108.75	
OCF		226.03	262.19	304.14	346.72	395.26	409.10	
Change in NWC		37.14	38.95	45.19	45.87	52.29	14.90	
Change in CAPEX		1.93	2.02	2.35	2.38	2.71	0.77	
FCF		186.96	221.21	256.61	298.48	340.26	393.42	
Discounted FCF		174.52	192.75	208.71	226.60	241.13		
Terminal Value	11,217.39							
PV of Terminal Value	7,949.44							
Enterprise Value	8,993.15							
Less Net Debt	322.00					NWC % of Sales	7%	
Cash & Equiv	157.52					CAPEX % of Sales	0%	
Equity Value	8,828.66							
Shares Outstanding	58.19							
Price Per Share	\$ 151.72							

	1	1	Exit Multipe Met	nod	1		
				Tetra Tech			
	Reported		F	lorizon Period			Terminal
	2020	2021	2022	2023	2024	2025	Period
Cost of Capital	7.13%						
Terminal Growth Rate	3.50%						
EBITDA %	9.03%						
In Millions							
Sales	2,990.00	3,528.20	4,092.71	4,747.55	5,412.20	6,169.91	6,385.86
Growth Rate		18.00%	16.00%	16.00%	14.00%	14.00%	3.50%
EBITDA	269.95	318.54	369.51	428.63	488.64	557.05	576.54
Less Taxes		66.89	77.60	90.01	102.61	116.98	121.07
OCF		251.65	291.91	338.62	386.02	440.07	455.47
Change in NWC		37.14	38.95	45.19	45.87	52.29	14.90
Change in CAPEX		1.93	2.02	2.35	2.38	2.71	0.77
Unlevered CF		212.58	250.93	291.08	337.78	385.07	439.79
		198.43	218.64	236.75	256.44	272.88	
Terminal Year EBITDA	557.05						
Exit Multiple							
Terminal Value	-						
PV of TV	.,						
Enterprise Value							
Less Net Debt	,						
Less Pref. St & Min Int	0.08						
Cash and Cash Equiv	157.52						
Equity Value							
Shares Outstanding	58.19						
Price Per Share	\$ 144.68						

			Sensitivity	y An	alysis			
	7.40%	7.30%	7.20%		7.13%	7.00%	6.90%	6.80%
3.80%	\$ 151.33	\$ 155.94	\$ 160.81	\$	164.40	\$ 171.48	\$ 177.33	\$ 183.57
3.70%	\$ 147.54	\$ 151.91	\$ 156.53	\$	159.93	\$ 166.62	\$ 172.14	\$ 178.01
3.60%	\$ 143.94	\$ 148.10	\$ 152.49	\$	155.71	\$ 162.04	\$ 167.25	\$ 172.79
3.50%	\$ 140.53	\$ 144.49	\$ 148.66	\$	151.72	\$ 157.73	\$ 162.66	\$ 167.89
3.40%	\$ 137.29	\$ 141.06	\$ 145.04	\$	147.95	\$ 153.65	\$ 158.33	\$ 163.28
3.30%	\$ 134.21	\$ 137.81	\$ 141.60	\$	144.37	\$ 149.80	\$ 154.24	\$ 158.93
3.20%	\$ 131.27	\$ 134.72	\$ 138.33	\$	140.98	\$ 146.15	\$ 150.37	\$ 154.83

Exit Multiple	e Ser	sitivity
20x	\$	158.24
19x	\$	151.46
18x	\$	144.68
17x	\$	137.89
16x	\$	131.11

	Open		High		Low		Close
DCF Perpetuity	\$	145.04	\$	162.04	\$	145.04	\$ 162.04
DCF Exit Multiple	\$	131.11	\$	158.24	\$	131.11	\$ 158.24
P/E	\$	120.31	\$	139.10	\$	120.31	\$ 139.10
P/B	\$	156.34	\$	177.87	\$	156.34	\$ 177.87
EV/EBIT	\$	129.09	\$	150.87	\$	129.09	\$ 150.87
EV/EBITDA	\$	75.97	\$	94.75	\$	75.97	\$ 94.75
EV/Sales	\$	229.24	\$	236.88	\$	229.24	\$ 236.88

	Weight	ed Average C	alculation		
Method	Va	luation	Weight	Weig	ghted Value
DCF Perpetuity	\$	151.72	0.18	\$	26.80
DCF Exit Multiple	\$	144.68	0.17	\$	24.37
P/E	\$	139.10	0.16	\$	22.53
P/B	\$	177.87	0.21	\$	36.83
EV/EBIT	\$	150.87	0.18	\$	26.50
EV/EBITDA	\$	94.75	0.11	\$	10.45
	\$	858.99	1.00	\$	147.47

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