This dynamic excel-based tool is intended to be used in conjunction with the technical mer to help the City of Valdez understand the return on investment over time for the developme within South Harbor. Since there are so many variables and choices involved in these calcu variables, such as lease agreement elements, to be changed and new ROIs calculated.

	Private Construction/ Private Operation		Public Construction/ Private Operation	
Total Costs (40 years)	\$	302,010	\$	3,569,625
Total Revenue (40 years)	\$	3,047,466	\$	3,197,414
ROI 10 years		13.8		0.3
ROI 20 years		12.4		0.5
ROI 40 years		10.1		0.9

	Private Construction/ Private Operation		Public Construction/ Private Operation	
Total Costs (20 years)	\$ 128,917	\$	3,328,491	
Total Revenue (20 years)	\$ 1,599,919	\$	1,599,919	
ROI 10 years	13.8		0.3	
ROI 20 years	12.4		0.5	
ROI 40 years	10.1		0.9	

Developed by Rain Coast Data

mo from Rain Coast Data, ent of a new fuel dock lations, this tool allows

F	Public Construction/ Public Operation
\$	10,960,374
\$	22,928,461
	1.3
	1.8
	2.1

Public Construction/		
Public Operation		
\$	6,483,321	
\$	11,958,719	
	1.3	
	1.8	
	2.1	

	40 Years	20 Years		
Total Capital Costs	\$0		\$0	
Total O&M Costs	\$0		\$0	
Total Labor Costs	\$302,010		\$128,917	
Total Fuel Revenue	\$2,747,466		\$1,442,419	
Total Lease Revenue	\$300,000		\$157,500	
Residual Value	\$0		\$0	
ROI 10 years	13.77			
ROI 20 years	12.41			
ROI 40 years	10.09			
		8		
Year			C	osts to COV
		Capita	al Costs	O&M
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				
2031				
2032				
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2056
2057
2058
2059
2060
2061
2062

Totals:

\$0.00 \$0.00

Fuel Wharfage	\$0.04
Volume	1,717,166
Tideland value	\$25,000
Upland value	\$50,000
Tideland rate	10%
Upland rate	10%
Annual Wage increase	2%

	Benefits to COV			
Labor	fuel revenue	Residual Value	Lease revenue	
\$5,000	\$68,687		\$7,500	
\$5,100	\$68,687		\$7,500	
\$5,202	\$68 <i>,</i> 687		\$7,500	
\$5,306	\$68 <i>,</i> 687		\$7,500	
\$5,412	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$5,520	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$5,631	\$68,687		\$7 <i>,</i> 500	
\$5,743	\$68,687		\$7 <i>,</i> 500	
\$5,858	\$68,687		\$7 <i>,</i> 500	
\$5,975	\$68,687		\$7 <i>,</i> 500	
\$6,095	\$68,687		\$7 <i>,</i> 500	
\$6,217	\$68,687		\$7 <i>,</i> 500	
\$6,341	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$6,468	\$68,687		\$7 <i>,</i> 500	
\$6,597	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$6,729	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$6,864	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$7,001	\$68,687		\$7 <i>,</i> 500	
\$7,141	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$7,284	\$68,687		\$7 <i>,</i> 500	
\$7,430	\$68 <i>,</i> 687		\$7 <i>,</i> 500	
\$7,578	\$68,687		\$7 <i>,</i> 500	
\$7,730	\$68,687		\$7,500	
\$7,884	\$68,687		\$7,500	
\$8,042	\$68,687		\$7,500	
\$8,203	\$68,687		\$7,500	

\$8,367	\$68,687	\$7,500
\$8,534	\$68,687	\$7,500
\$8,705	\$68,687	\$7,500
\$8,879	\$68,687	\$7 <i>,</i> 500
\$9 <i>,</i> 057	\$68,687	\$7,500
\$9 <i>,</i> 238	\$68,687	\$7 <i>,</i> 500
\$9 <i>,</i> 423	\$68,687	\$7,500
\$9 <i>,</i> 611	\$68,687	\$7,500
\$9,803	\$68,687	\$7,500
\$9,999	\$68,687	\$7,500
\$10,199	\$68,687	\$7,500
\$10,403	\$68,687	\$7 <i>,</i> 500
\$10,611	\$68,687	\$7,500
\$10,824	\$68,687	\$7,500

\$302,009.92

\$2,747,465.60

\$0.00 \$300,000.00

	40 Years	20 Years
Total Costs	\$302,010	\$128,917
Total Revenue	\$3,047,466	\$1,599,919

	40 years	20 Years	
Total Capital Costs	\$3,061,924	\$3,061,924	
Total O&M Costs	\$205,691	\$137,650	
Total Labor Costs	\$302,010	\$128,917	
Total Fuel Revenue	\$2,747,466	\$1,442,419	
Total Lease Revenue	\$300,000	\$157,500	
Residual Value	\$149,948		
ROI 10 years	0.26		
ROI 20 years	0.48		
ROI 40 years	0.90		
		-	
Year		Co	osts to COV
		Capital Costs	0&M
2021		\$1,874,697.32	
2022		\$1,187,226.52	
2023			
2024	,		
2025			
2026			
2027			\$31,645.06
2028			
2029			
2030			
2031			
2032			\$27,297.31
2033			
2034			
2035			
2036			
2037			\$58,396.31
2038			
2039			
2040			
2041			
2042			\$20,311.76
2043			
2044			
2045			
2046			
2047			\$17,521.10
2048			

2049	
2050	
2051	
2052	\$37,482.37
2053	
2054	
2055	
2056	
2057	\$13 <i>,</i> 037.35
2058	
2059	
2060	
2061	
2062	

Totals:

\$3,061,923.83 \$205,691.25

Fuel Wharfage	\$0.04
Gallons	1,717,166
Tideland value	\$25,000
Upland value	\$50,000
Tideland rate	10%
Upland rate	10%
Annual wage increase	2%

	Benefits to COV		
Labor	fuel revenue	Residual Value	Lease revenue
4			4
\$5,000	\$68,687		\$7,500
\$5,100	\$68,687		\$7,500
\$5,202	\$68,687		\$7,500
\$5,306	\$68,687		\$7,500
\$5,412	\$68,687		\$7,500
\$5,520	\$68,687		\$7,500
\$5,631	\$68 <i>,</i> 687		\$7 <i>,</i> 500
\$5,743	\$68,687		\$7,500
\$5,858	\$68,687		\$7,500
\$5,975	\$68,687		\$7,500
\$6,095	\$68,687		\$7,500
\$6,217	\$68,687		\$7,500
\$6,341	\$68,687		\$7 <i>,</i> 500
\$6,468	\$68,687		\$7 <i>,</i> 500
\$6,597	\$68,687		\$7 <i>,</i> 500
\$6,729	\$68,687		\$7 <i>,</i> 500
\$6,864	\$68,687		\$7 <i>,</i> 500
\$7,001	\$68,687		\$7 <i>,</i> 500
\$7,141	\$68,687		\$7 <i>,</i> 500
\$7,284	\$68,687		\$7,500
\$7,430	\$68,687		\$7,500
\$7,578	\$68,687		\$7,500
\$7,730	\$68,687		\$7,500
\$7,884	\$68,687		\$7,500
\$8,042	\$68,687		\$7,500
\$8,203	\$68,687		\$7,500
· ·	- ,		. ,

\$8,367	\$68,687	\$7,500
\$8 <i>,</i> 534	\$68,687	\$7,500
\$8 <i>,</i> 705	\$68,687	\$7,500
\$8,879	\$68,687	\$7,500
\$9 <i>,</i> 057	\$68,687	\$7,500
\$9,238	\$68,687	\$7,500
\$9,423	\$68,687	\$7,500
\$9 <i>,</i> 611	\$68,687	\$7,500
\$9 <i>,</i> 803	\$68,687	\$7,500
\$9 <i>,</i> 999	\$68,687	\$7,500
\$10,199	\$68,687	\$7,500
\$10,403	\$68,687	\$7,500
\$10,611	\$68,687	\$7,500
\$10,824	\$68,687 \$149,948	\$7 <i>,</i> 500

\$302,010

\$2,747,466

\$300,000

\$149,948

	40 Years	20 Years
Total Costs	\$3,569,625	\$3,328,491
Total Revenue	\$3,197,414	\$1,599,919

	40 Years	20 Years	
Total Capital Costs	\$3,061,924	\$3,061,924	
Total O&M Costs	\$205,691	\$137,650	
Total Labor Costs	\$7,692,759	\$3,283,747	
Total Fuel Revenue	\$21,693,822	\$11,389,256	
<b>Total Retail Revenue</b>	\$1,084,691	\$569,463	
Residual Value	\$149,948		
		_	
ROI 10 years	1.34		
ROI 20 years	1.84		
ROI 40 years	2.09		
Year		Co	osts to COV
		Capital Costs	0&M
2021		\$1,874,697	
2022		\$1,187,227	
2023			

2024	
2025	
2026	
2027	\$31 <i>,</i> 645.06
2028	
2029	
2030	
2031	
2032	\$27,297.31
2033	
2034	
2035	
2036	
2037	\$58,396.31
2038	
2039	
2040	
2041	
2042	\$20,311.76
2043	
2044	
2045	
2046	
2047	\$17,521.10
2048	

2049		
2050		
2051		
2052		\$37,482.37
2053		
2054		
2055		
2056		
2057		\$13,037.35
2058		
2059		
2060		
2061		
2062		

Totals:

\$3,061,923.83 \$205,691.25

Fuel Markup (10-25%)	15.0%
Diesel in Gallons	1,619,104
Wholesale Diesel Price	\$2.10
Gasoline in Gallons	98,062
Gasoline Price	\$2.27
Wage increases	2%
Retail as a percent of revenue	5%

	Benefits to COV		
Labor	fuel revenue	<b>Residual Value</b>	Retail
\$ 127,359	\$542,3	346	\$27,117
\$ 129,907	\$542,3	346	\$27,117
\$ 132,505	\$542,3	346	\$27,117
\$ 135,155	\$542,3	346	\$27,117
\$ 137,858	\$542,3	346	\$27,117
\$ 140,615	\$542,3	346	\$27,117
\$ 143,427	\$542,3	346	\$27,117
\$ 146,296	\$542,3	346	\$27,117
\$ 149,222	\$542,3	346	\$27,117
\$ 152,206	\$542,3	346	\$27,117
\$ 155,250	\$542,3	346	\$27,117
\$ 158,355	\$542,3	346	\$27,117
\$ 161,522	\$542,3	346	\$27,117
\$ 164,753	\$542,3	346	\$27,117
\$ 168,048	\$542,3	346	\$27,117
\$ 171,409	\$542,3	346	\$27,117
\$ 174,837	\$542,3	346	\$27,117
\$ 178,334	\$542,3	346	\$27,117
\$ 181,901	\$542,3	346	\$27,117
\$ 185,539	\$542,3	346	\$27,117
\$ 189,249	\$542,3	346	\$27,117
\$ 193,034	\$542,3	346	\$27,117
\$ 196,895	\$542,3	346	\$27,117
\$ 200,833	\$542,3	346	\$27,117
\$ 204,850	\$542,3	346	\$27,117
\$ 208,947	\$542,3	346	\$27,117

\$ 213,125	\$542,346		\$27,117
\$ 217,388	\$542,346		\$27,117
\$ 221,736	\$542,346		\$27,117
\$ 226,170	\$542,346		\$27,117
\$ 230,694	\$542,346		\$27,117
\$ 235,308	\$542,346		\$27,117
\$ 240,014	\$542,346		\$27,117
\$ 244,814	\$542,346		\$27,117
\$ 249,710	\$542,346		\$27,117
\$ 254,705	\$542,346		\$27,117
\$ 259,799	\$542,346		\$27,117
\$ 264,995	\$542,346		\$27,117
\$ 270,295	\$542,346		\$27,117
\$ 275,701	\$542,346	\$149,948	\$27,117

\$7,692,758.83

\$21,693,822 \$149,948

\$1,084,691

	40 Years	20 Years
Total Costs	\$10,960,374	\$6,483,321
Total Revenue	\$22,928,461	\$11,958,719

\* One time permitting fees pulled out from the total project cost; not recurring, and assumed to be incu

\* Capital Costs assumed to be spread over two years of construction

	1	/2 * capital cost
One-time permitting + support (from R&M estimate)	\$651 <i>,</i> 854	
Capital Cost	\$2,445,686.63	\$1,222,843.32

urred during year 1

## Total Capital Cost: \$2,445,687

	Maintenanc
	<b>Construction Completed</b>
operational in 2022	2022
maintenance	2027
	2032
	2037
	2042
	2047
	2052
	2057
replacement in 2062	2062

1.5% of capital cost every 5 years and 3.72% of c

e Costs Years since completion	O&M	
5	\$	31,645
10	\$	27,297
15	\$	58,396
20	\$	20,312
25	\$	17,521
30	\$	37,482
35	\$	13,037
40		
	\$	205,691

apital cost every 15 years

	fully loaded wage, benefit, and employee costs hours			# workers		
	71850	)	1950	1		
seasonal	20	)	37.5	4		

\*wage used was median of range provided to Rain Coast.

#weeks	# months	annually	
		12	67359.375
	4	5	60000

## Residual Value = [(U-Y)/U]\*total project cost

\$489,137.33