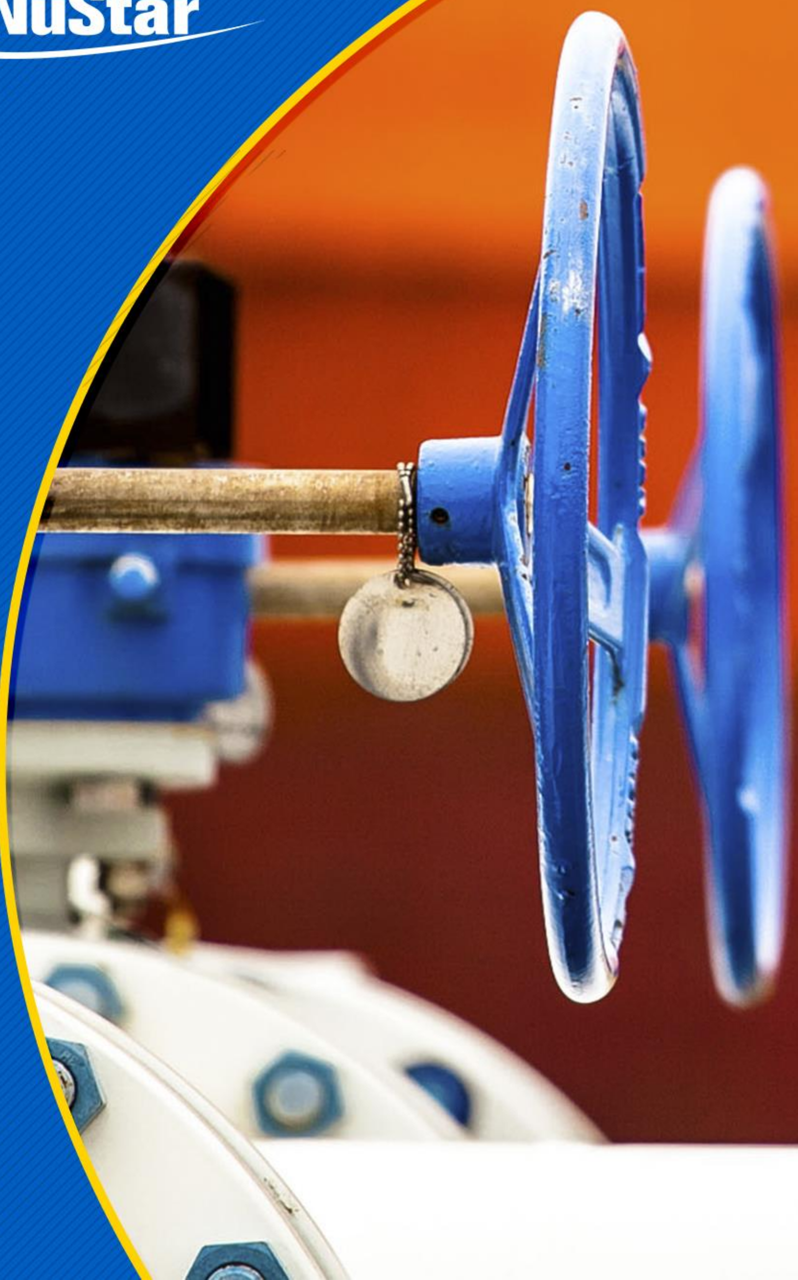


2015 Wells Fargo

Securities Energy Symposium

December 8, 2015

Forward-Looking Statements

Statements contained in this presentation that state management's expectations or predictions of the future are forward-looking statements. While these forward-looking statements, and any assumptions upon which they are based, are made in good faith and reflect our current judgment regarding the direction of our business, actual results will almost always vary, sometimes materially, from any estimates, predictions, projections, assumptions or other future performance suggested in this presentation. These forward-looking statements can generally be identified by the words "anticipates," "believes," "expects," "plans," "intends," "estimates," "forecasts," "budgets," "projects," "could," "should," "may" and similar expressions. These statements reflect our current views with regard to future events and are subject to various risks, uncertainties and assumptions.

We undertake no duty to update any forward-looking statement to conform the statement to actual results or changes in the company's expectations. For more information concerning factors that could cause actual results to differ from those expressed or forecasted, see NuStar Energy L.P.'s annual report on Form 10-K and quarterly reports on Form 10-Q, filed with the SEC and available on NuStar's website at www.nustarenergy.com.

We use financial measures in this presentation that are not calculated in accordance with generally accepted accounting principles ("non-GAAP") and our reconciliations of non-GAAP financial measures to GAAP financial measures are located in the appendix to this presentation. These non-GAAP financial measures should not be considered an alternative to GAAP financial measures.

NuStar Overview

Two Publicly Traded Companies

Public Unitholders
34.3 million NSH Units
80.0% Membership Interest

William E. Greehey
8.6 million NSH Units
20.0% Membership Interest

NuStar GP Holdings, LLC

NYSE: NSH

2% G.P. Interest in NS

13.0% L.P. Interest in NS

Incentive Distribution Rights in NS (IDR)

~13.0% NS Distribution Take

IPO Date: 7/19/2006

Unit Price (12/4/15): $21.29

Annualized Distribution/Unit: $2.18

Yield (12/4/15): 10.2%

Market Capitalization: $0.9 billion

Enterprise Value: $0.9 billion

NuStar Energy L.P.

NYSE: NS

Public Unitholders
67.5 million NS Units
85.0% L.P. Interest

IPO Date: 4/16/2001

Unit Price (12/4/15): $35.49

Annualized Distribution/Unit: $4.38

Yield (12/4/15): 12.3%

Market Capitalization: $2.8 billion

Enterprise Value: $5.8 billion

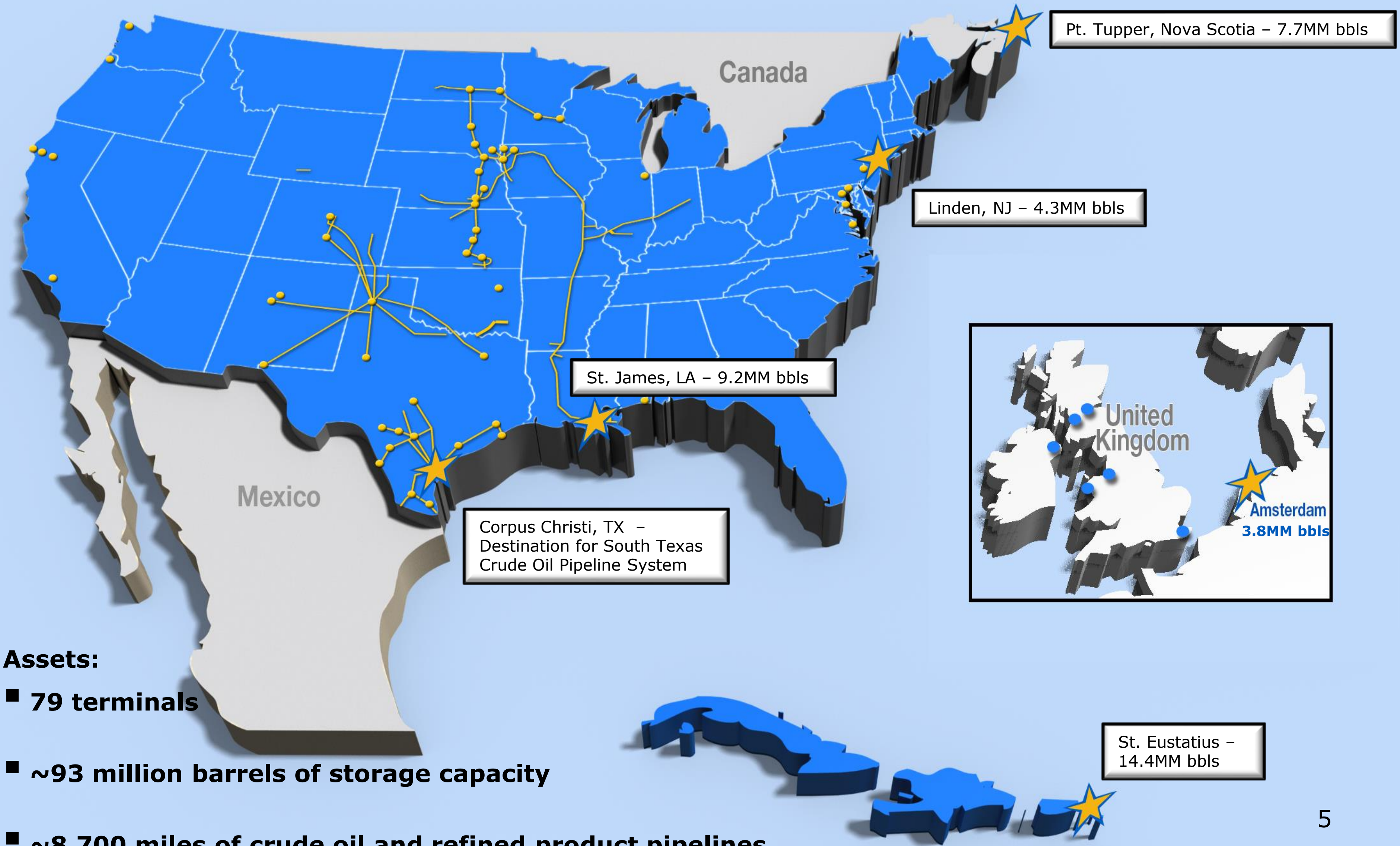
Credit Ratings

Moody's: Ba1/Stable

S&P: BB+/Stable

Fitch: BB/Stable

Large and Diverse Geographic Footprint with Assets in Key Locations

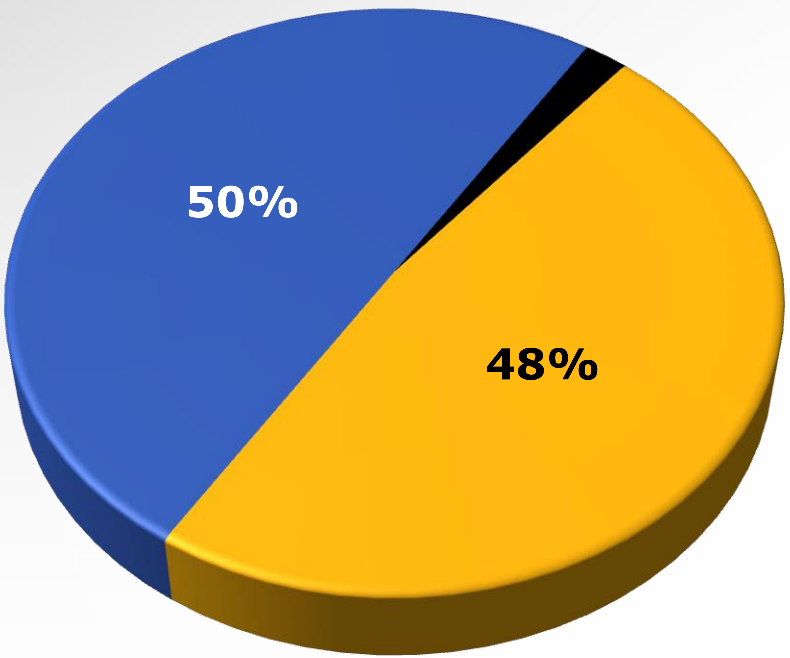


Assets:

- **79 terminals**
- **~93 million barrels of storage capacity**
- **~8,700 miles of crude oil and refined product pipelines**

Majority of Segment EBITDA Generated by Fee-Based Pipeline and Storage Segments

Percentage of 2015 Segment EBITDA
(for the nine months ended 9/30/15)



Pipeline: 50%
- Refined Product Pipelines
- Crude Oil Pipelines

Storage: 48%
- Refined Product Terminals
- Crude Oil Storage

Fuels Marketing: 2%
- Refined Products Marketing, Bunkering and Crude & Fuel Oil Trading

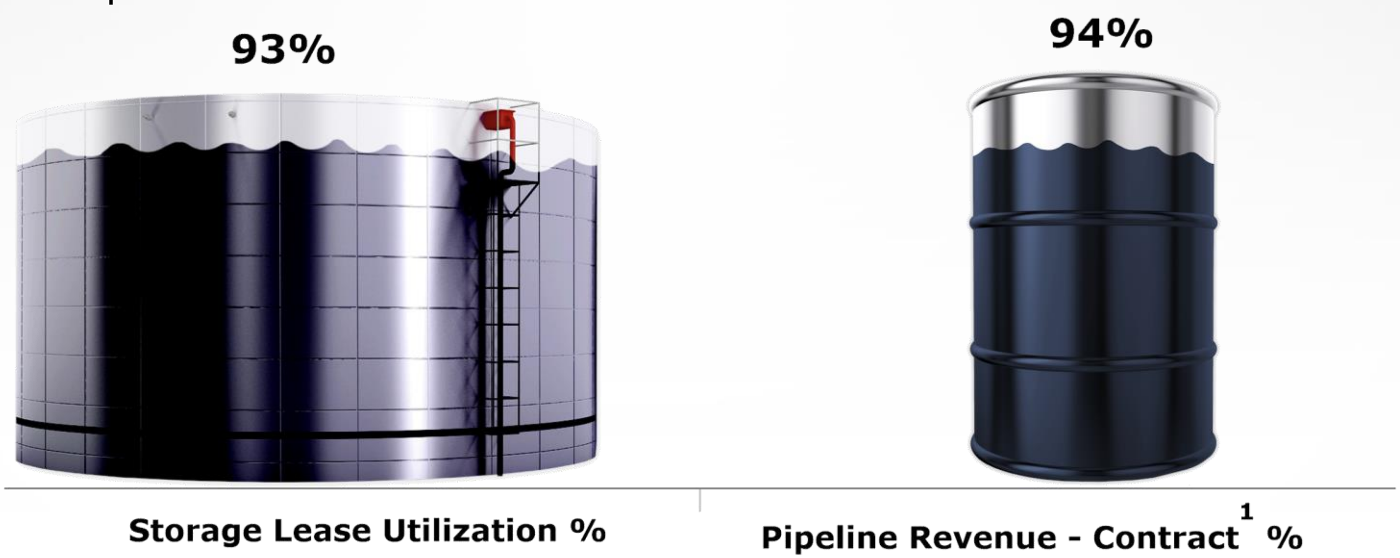
- Pipeline and Storage segments account for about 98% of 2015 segment EBITDA

Achieving 2015 Goals - Strong 3rd Quarter Results and Strategic Capital Spending Program Position NuStar for Continued Distribution Coverage in 2015 & 2016

- Acquired remaining 50% interest in our 4.3 million barrel Linden terminal in January 2015
- Completed expansion of South Texas Crude Oil Pipeline System in February 2015, which increased capacity to 340,000 bpd
- Finished construction of 400,000 barrels of additional storage at our Corpus Christi North Beach Terminal in the third quarter 2015
- Recently completed four of our six projects to increase distillate and propane supply throughout our Central East System and some projects that connect our Oakville to Corpus Christi 16-inch crude oil pipeline to a few major refineries in the Corpus Christi, Texas area
- Taking steps to increase capacity and flexibility of our ammonia pipeline and build out additional capacity at our St. James terminal
- Third Quarter 2015 Highlights
  - 17% increase in storage lease revenues
  - Base business experienced improved throughputs despite challenging market conditions
  - Coverage ratio: 1.05 times, sixth consecutive quarter in excess of 1.0 times
- We expect fourth quarter 2015 earnings per unit to be in the range of $0.45 to $0.55

Building on Our Strengths - Stable, Diversified Business Foundation for Future Growth

- Contracted fee-based storage and pipeline assets provide stable cash flows, delivering approximately 98% of 2015 segment EBITDA
  - Storage terminals effectively full
  - ~75% of pipeline revenues are based on refinery/fertilizer plant feedstock supply or refinery production delivery
  - ~25% of pipeline revenues are Eagle Ford volumes to area refineries or Corpus Christi, TX docks
- ~95% of tariffs are FERC-based, which are adjusted annually for inflation
- Diverse and high-quality customer base composed of large integrated oil companies, national oil companies and refiners



1 – 94% committed through take or pay contracts or through structural exclusivity (uncommitted lines serving refinery customers with no competition)

Executing on Growth – Closed on an Acquisition in First Quarter 2015

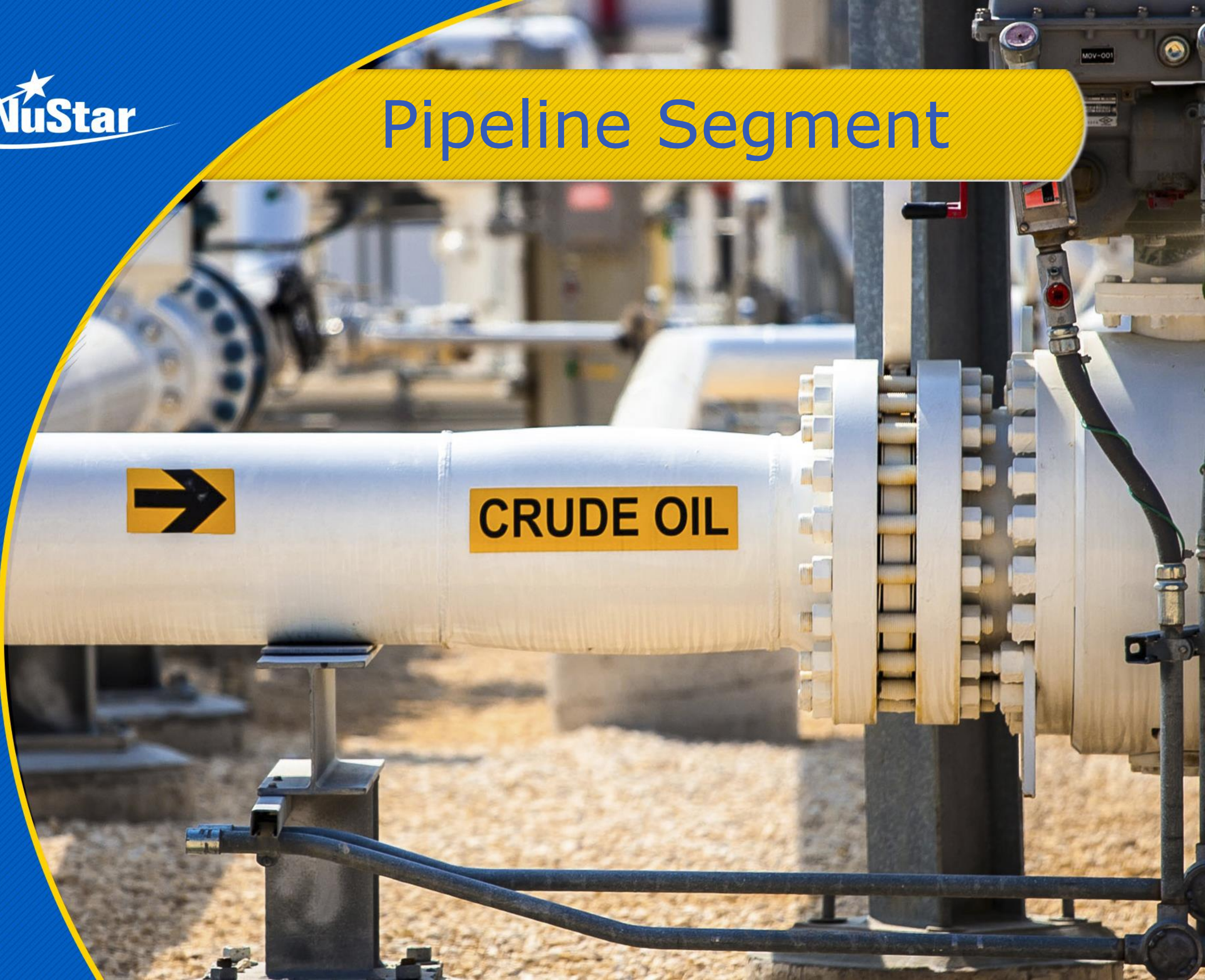
- In early January, we purchased the remaining 50% interest in our Linden terminal for $142.5 million

- Sole ownership of the terminal strengthens our presence in the New York Harbor and the East Coast market and may provide opportunities for expansion

- Terminal is strategically located in the New York Harbor with:
  - 4.3 million barrels of refined products storage capacity, primarily gasoline, jet fuel and fuel oil
  - A deep-water ship dock and one barge dock that are used for inbound and outbound shipments
  - Inbound pipeline connections to the Colonial and Sun pipelines, and an outbound connection to the Buckeye Pipeline
  - Direct connection to our adjacent, 100%-owned terminal, which has 389,000 barrels of refined product storage capacity and receives shipments via truck and pipeline and delivers product via its eight-bay truck loading rack

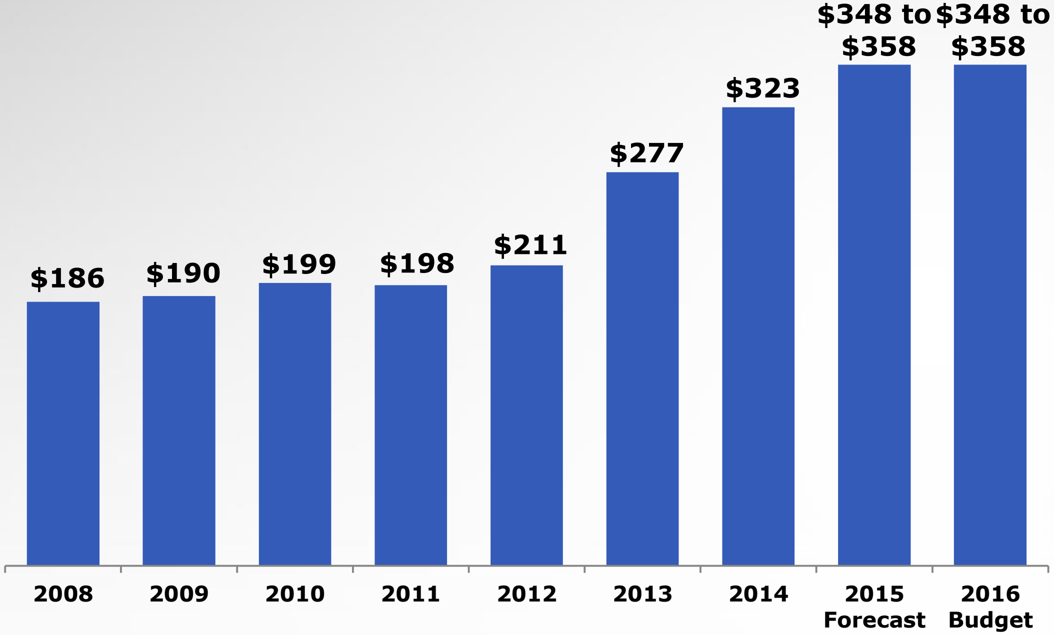


Pipeline Segment

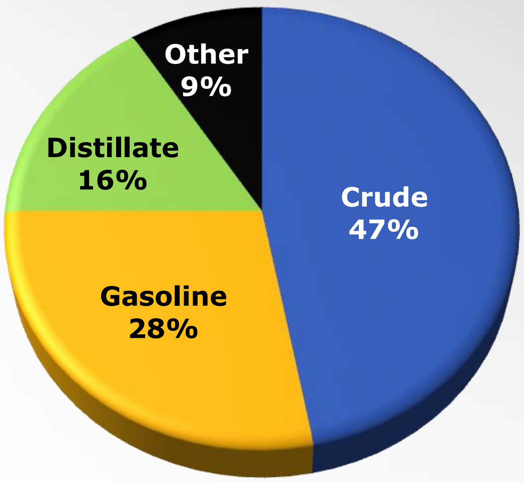


Eagle Ford Shale Region has Driven Growth in Pipeline Segment EBITDA

Pipeline Segment EBITDA[1]
($ in millions)



Pipeline Receipts by Commodity
LTM as of 9/30/15



*Other includes ammonia, jet fuel, propane, naphtha and light-end refined products

- 2015 segment EBITDA expected to be $25 to $35 million[1] higher than 2014 mainly due to increased pipeline throughputs from Eagle Ford expansion projects completed in 2014 and 2015, increased loading capabilities at our Corpus Christi North Beach Terminal and higher annual FERC tariff adjustments.
- 2016 segment EBITDA should be comparable to slightly higher than 2015 as we expect increased volumes on our refined product pipelines to be offset by lower projected Eagle Ford crude volumes.

1 – Please see slides 30 and 31 for reconciliations of EBITDA to its most directly comparable GAAP measure

South Texas Crude Oil Pipeline Expansion

Total Estimated Eagle Ford Spending	
Pipeline Segment	~$702 million
Total (includes Storage Segment)	~$870 million

2011: Q3, Q4 | 2012: Q1, Q2, Q3, Q4 | 2013: Q1, Q2, Q3, Q4 | 2014: Q1, Q2, Q3, Q4 | 2015: Q1, Q2, Q3, Q4

Reactivation of Pettus to Corpus Christi pipeline

Reversal of 8-inch Corpus-to-Three Rivers refined products pipeline

Construction of a new 12-inch crude oil pipeline for Valero

Acquired 140 miles of crude oil transmission and gathering lines, as well as five storage terminals, for around $325 million

Connection of 16-inch Corpus-to-Three Rivers crude oil pipeline to 12-inch TexStar crude oil pipeline system

Oakville terminal truck offloading

Pawnee terminal and pipeline connection for Conoco Phillips

More than doubled dock capacity with the completion of third dock at our Corpus Christi North Beach Terminal

Phase 1 expansion of the Choke Canyon Pipeline, added 35,000 barrels per day of capacity and ~$20 million[1] in annual EBITDA

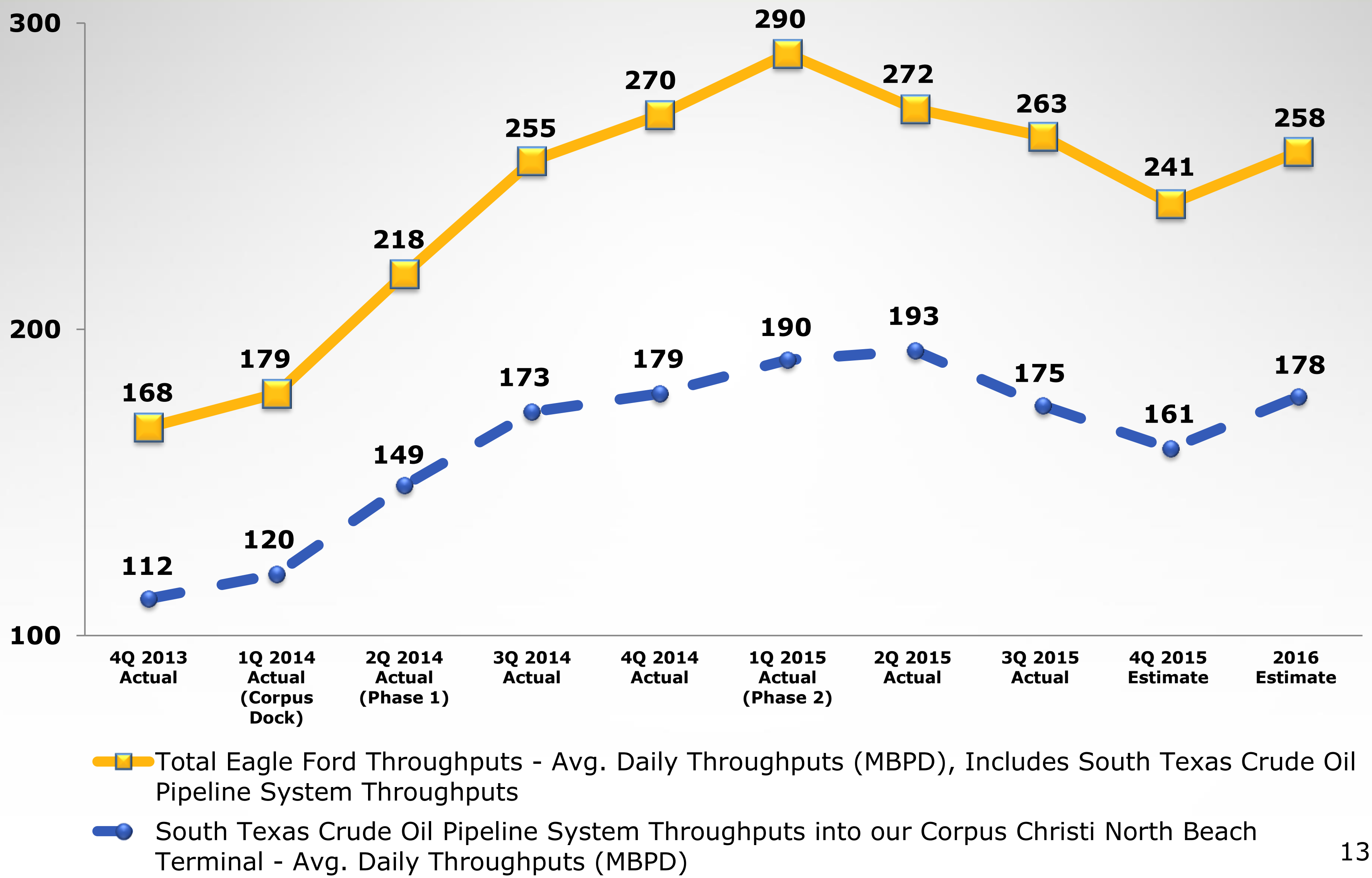
Completed expansion of Choke Canyon Pipeline in February 2015, which increased capacity to a total of 340,000 bpd on our South Texas Pipeline System

Finished construction of 400,000 barrels of additional storage at our Corpus Christi North Beach Terminal in the third quarter 2015

We expect these projects to earn EBITDA multiples in the range of 4x – 8x

1 – Please see slide 31 for a reconciliation of EBITDA to its most directly comparable GAAP measure

Throughputs in NuStar's South Texas Crude Oil Pipeline System

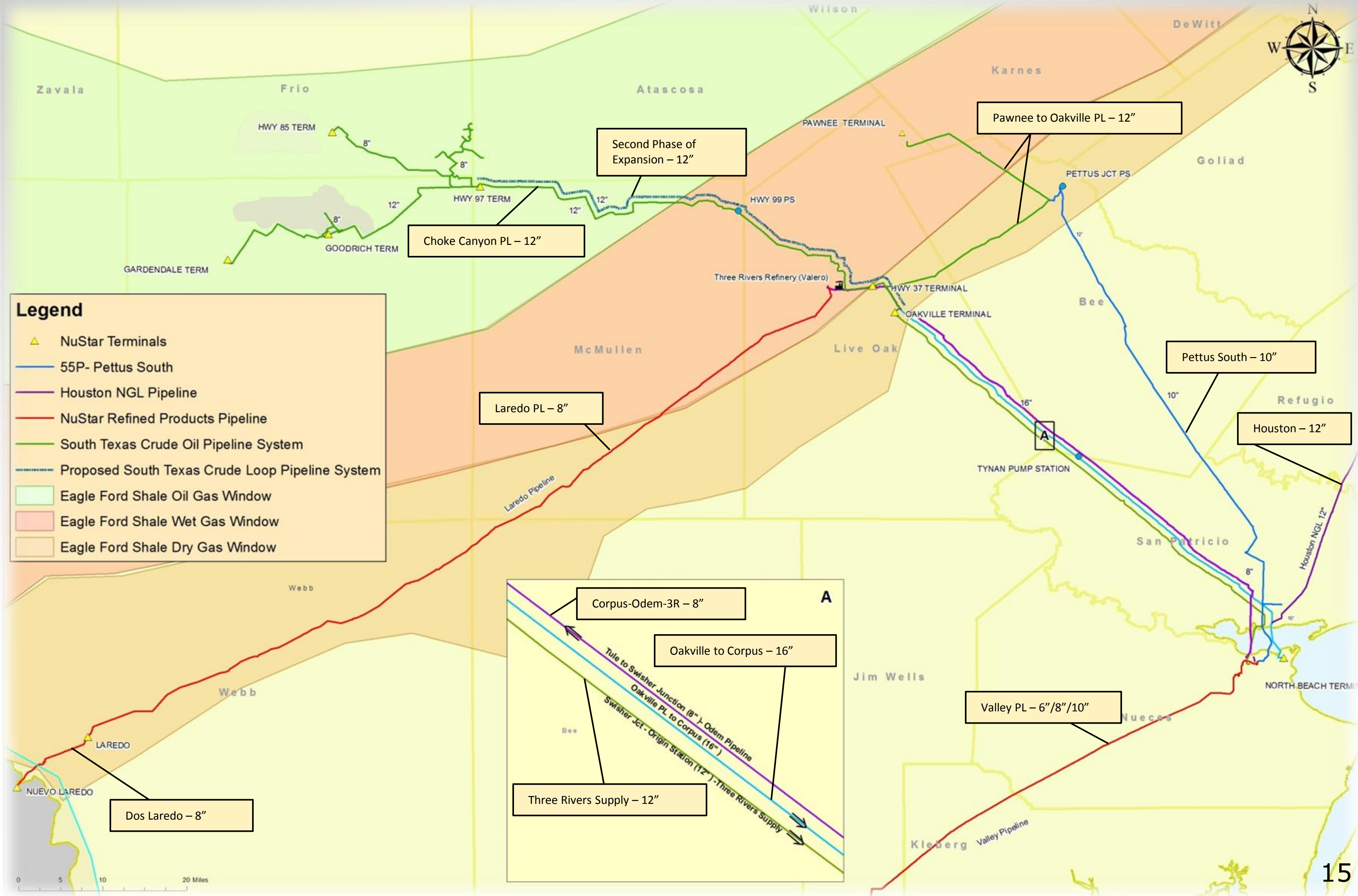


Our Corpus Christi Docks are Key to our South Texas Crude Oil Pipeline System Growth

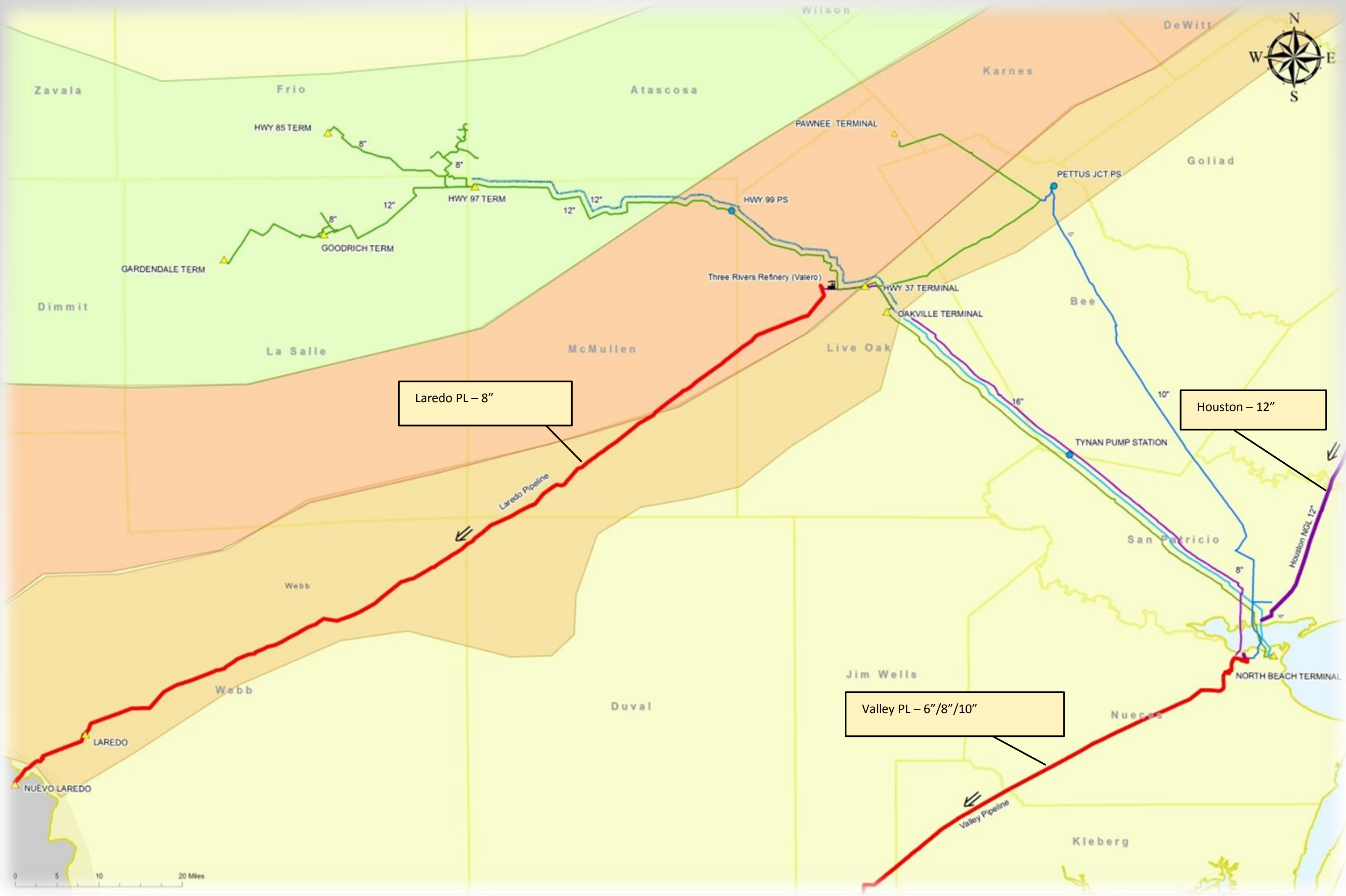
- Dock 16 more than doubled our loading capacity
  - Allows us to handle all new volume associated with Phase 1 and Phase 2 of the South Texas Crude Oil Pipeline expansion project, as well as any additional volumes shipped on our South Texas system
  - Favorable private location near mouth of channel that supports large Panamax-class vessels
  - Capability to handle segregations of various grades of crude

- Have loaded ~860,000 barrels in a 24-hour period
  - Ability to load ~65,000 barrels per hour across our three docks
  - Capacity to move on average between 350,000 and 400,000 barrels per day
  - Loaded a record average of ~220,000 barrels per day during April 2015
  - In the third quarter, we loaded our 100 millionth barrel across our docks

NuStar's South Texas Pipeline Presence



Working with PMI to Develop Project to Transport LPGs and Refined Products from the U.S. Into Northern Mexico



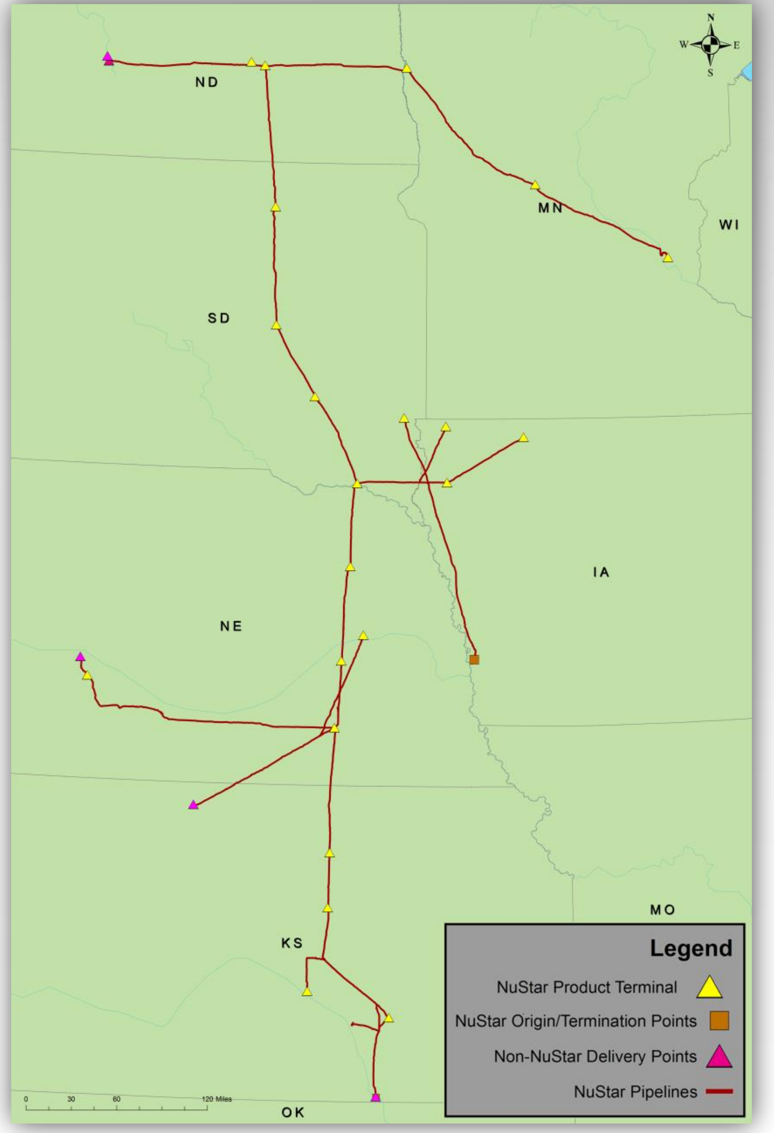
NuStar Expanding Mid-Continent Pipeline and Terminal Network

- Completed four of the six projects under development with a key customer to increase distillate and propane supply throughout the Upper Midwest for an investment of approximately $50 million

- Capital investments to be backed by long-term agreements

- Propane supply projects complete and in service.

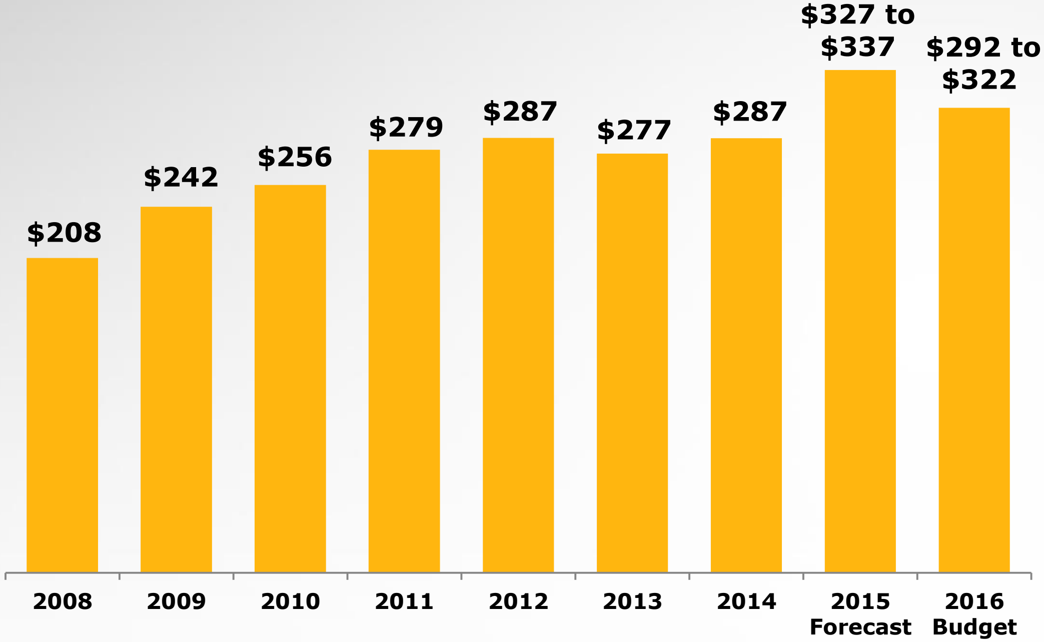
- Construction on remaining projects should be completed by the first quarter of 2017



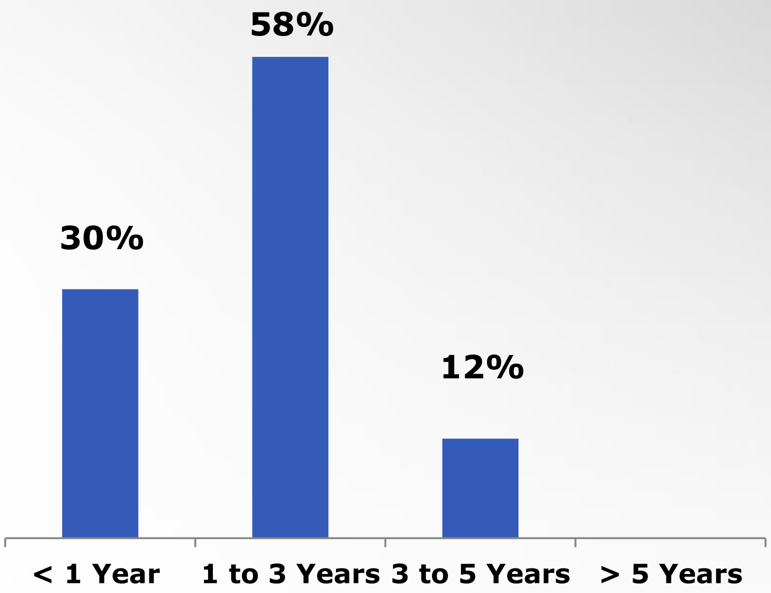
Storage Segment

Storage Segment EBITDA Benefiting from Linden Terminal Acquisition

Adjusted Storage Segment EBITDA[1]
($ in millions)



Storage Lease Renewals
(% as of 10/19/2015)



- 2015 segment EBITDA expected to be $40 to $50 million[1] higher than 2014, primarily due to incremental EBITDA from the Linden terminal acquisition, a full-year benefit from 8 million barrels of renewed storage in St. Eustatius and Pt. Tupper, Canada, favorable renewals at several terminals, expected insurance proceeds related to our Linden terminal and strong throughputs at our Corpus Christi North Beach facility during the first half of the year.
- 2016 segment EBITDA expected to decrease $15 to $35[1] million compared to 2015 mostly due to the negative impact of lower Eagle Ford shale production on expected throughput volumes into our Corpus Christi North Beach terminal, lower expected revenue from some of foreign terminals and the absence of the expected 2015 insurance proceeds next year.

1 – Please see slides 30 and 31 for reconciliations of adjusted EBITDA to its most directly comparable GAAP measure

Fuels Marketing Segment

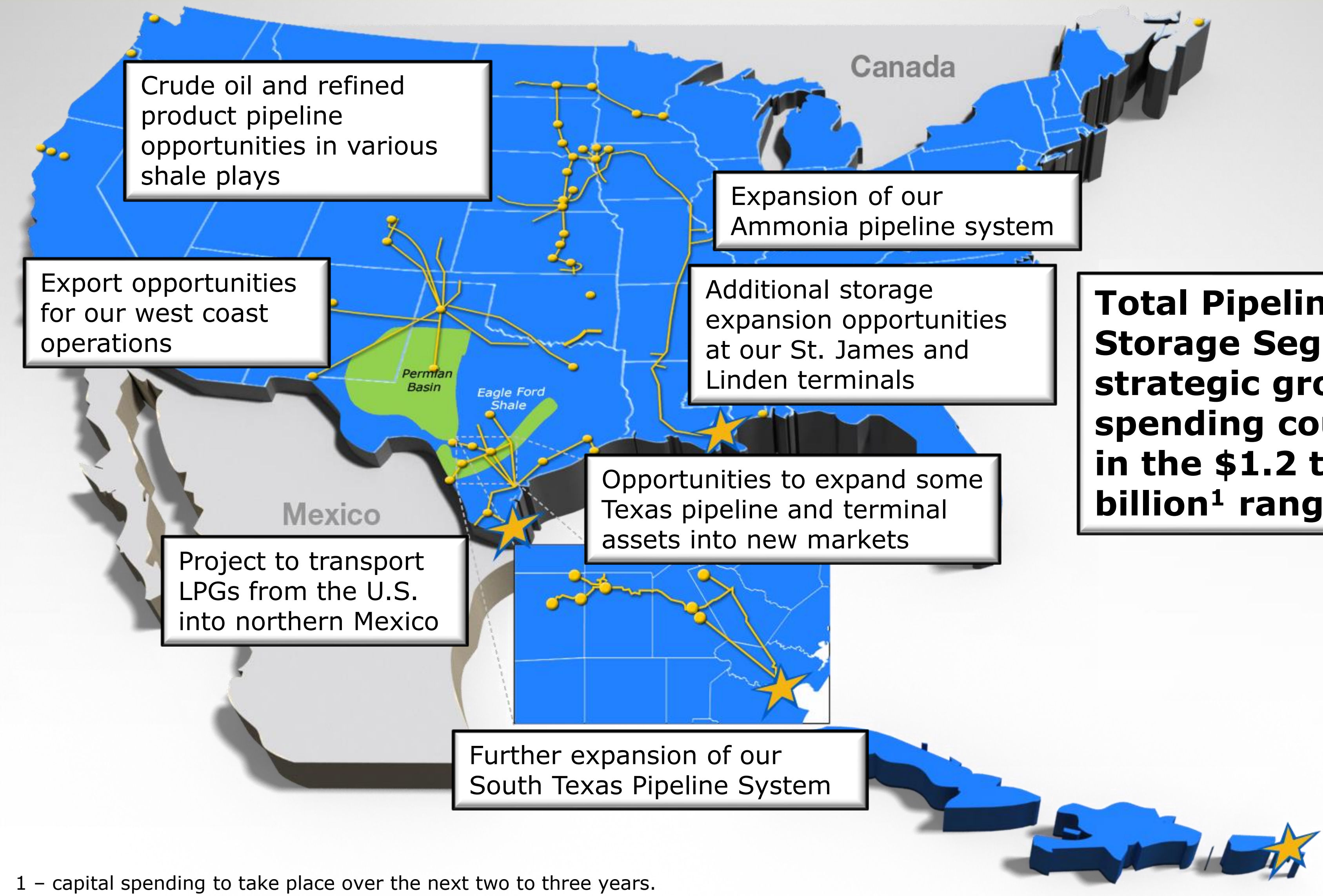
Fuels Marketing Segment Benefits Base Business

- Segment is composed of:
  - Refined Products Marketing
  - Bunkering
  - Crude & Fuel Oil Trading
- Fuels Marketing Segment currently pays Storage Segment approximately $26 million in annual storage fees
  - Represents around 5% of Storage Segment revenues
- 2015 EBITDA results for the segment are expected to be $10 to $20 million[1]
- 2016 EBITDA results for the segment are expected to be $15 to $35 million[1]

1 – Please see slide 31 for a reconciliation of EBITDA to its most directly comparable GAAP measure

Strategic Growth Update

Pursuing Pipeline and Storage Opportunities – Currently Evaluating:



Crude oil and refined product pipeline opportunities in various shale plays

Export opportunities for our west coast operations

Expansion of our Ammonia pipeline system

Additional storage expansion opportunities at our St. James and Linden terminals

Opportunities to expand some Texas pipeline and terminal assets into new markets

Project to transport LPGs from the U.S. into northern Mexico

Further expansion of our South Texas Pipeline System

Total Pipeline and Storage Segment strategic growth spending could be in the \$1.2 to \$1.6 billion[1] range

1 – capital spending to take place over the next two to three years.

NuStar

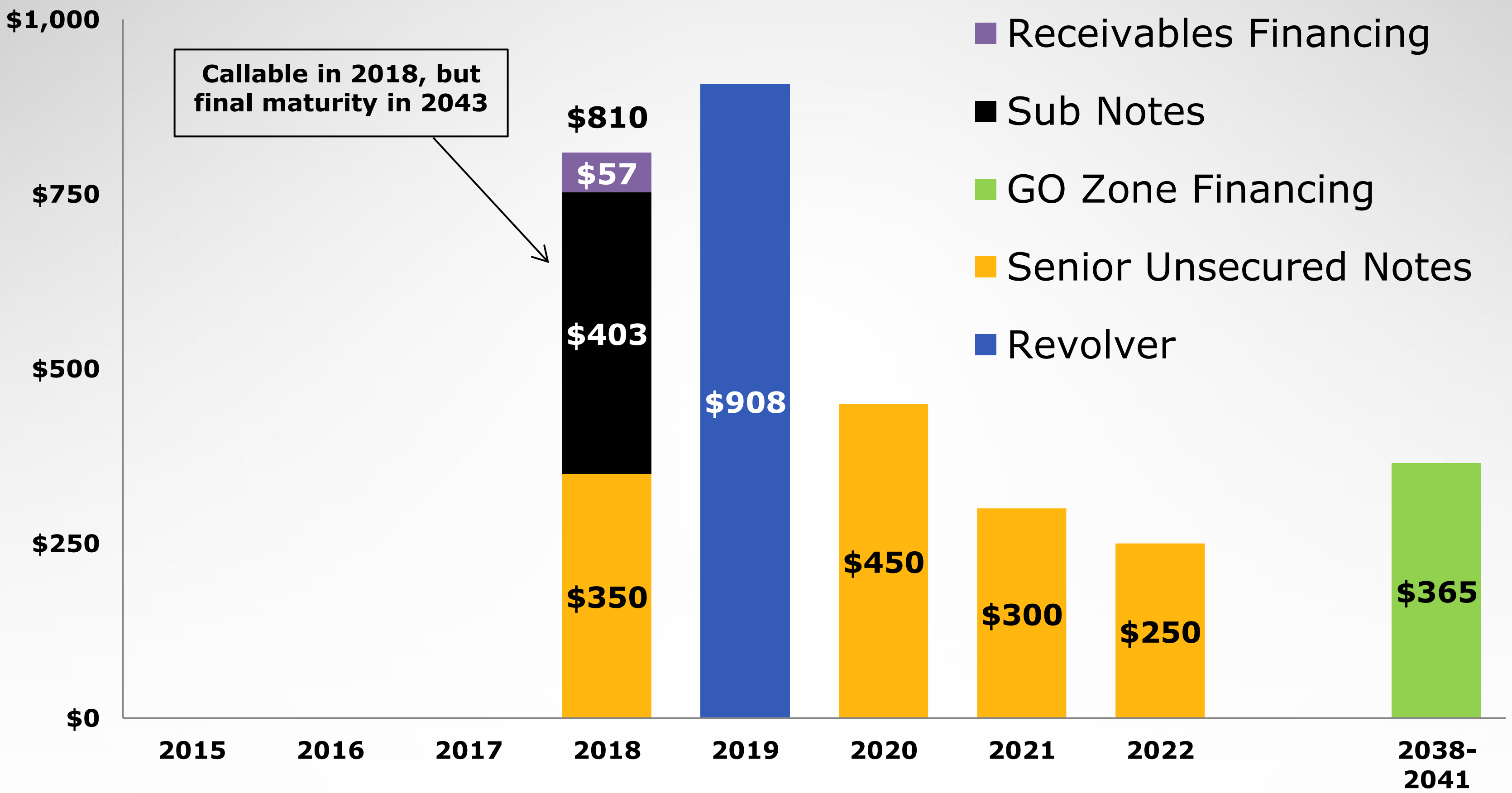
Financial Overview

Capital Structure
(as of September 30, 2015, Dollars in Millions)

$1.5 billion Credit Facility	$908
NuStar Logistics Notes (4.75%)	250
NuStar Logistics Notes (4.80%)	450
NuStar Logistics Notes (6.75%)	300
NuStar Logistics Notes (7.65%)	350
NuStar Logistics Sub Notes (7.625%)	403
GO Zone Bonds	365
Receivables Financing	57
Net unamortized discount and fair value adjustments	26
Total Long-term Debt	$3,109
Total Short-term Debt	42
Total Partners' Equity	1,654
Total Capitalization	$4,805

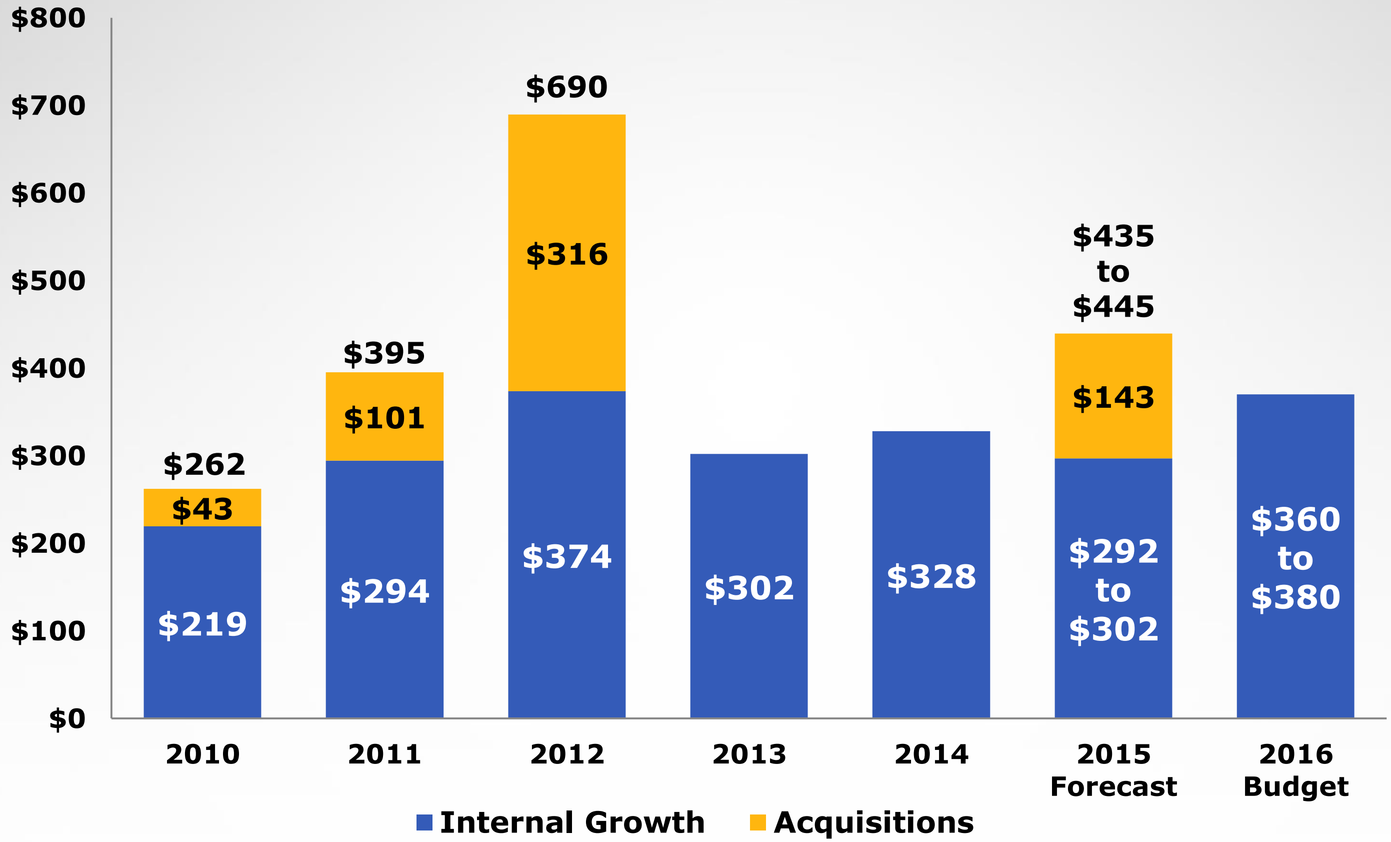
- Availability under $1.5 billion Credit Facility (as of September 30, 2015): ~$561 million
  - $908 million in borrowings and $31 million in Letters of Credit outstanding
  - Debt to EBITDA calculation per Credit Facility of 4.4x (as of September 30, 2015)

Long-term Debt Maturity Profile (as of September 30, 2015, Dollars in Millions)



- Currently, no debt maturities until 2018
- Long-term Debt structure 56% fixed rate – 44% variable rate

Expect ~$435 to $445 Million of Strategic Spending in 2015 and $360 to $380 in 2016 (Dollars in Millions)



- 2015 Total Capital Spending, which includes Reliability Capital, is expected to be in the range of $465 to $485 million in 2015
- 2016 Total Capital Spending, which includes Reliability Capital, is expected to be in the range of $395 to $425 million in 2016

The Fundamentals of our Business Remain Strong

- Fee-based pipeline and storage operations
- Supported by contracts from creditworthy customers
- World-class assets in strategic locations that allow us to take advantage of:
  - Continued shale oil development
  - Potential exports of both crude oil and condensates
  - Changing storage fundamentals
- Strong balance sheet and improved financial metrics
- **Company-wide commitment to our distributable cash flow growth**

Appendix

Reconciliation of Non-GAAP Financial Information

NuStar Energy L.P. utilizes financial measures such as earnings before interest, taxes, depreciation and amortization (EBITDA), distributable cash flow (DCF), adjusted net income and adjusted net income per unit (collectively, financial measures), which are not defined in U.S. generally accepted accounting principles (GAAP). Management uses these financial measures because they are widely accepted financial indicators used by investors to compare partnership performance. In addition, management believes that these financial measures provide investors an enhanced perspective of the operating performance of the partnership's assets and/or the cash that the business is generating. None of these financial measures are presented as an alternative to net income or income from continuing operations. They should not be considered in isolation or as substitutes for a measure of performance prepared in accordance with GAAP. For purposes of segment reporting, we do not allocate general and administrative expenses to our reported operating segments because those expenses relate primarily to the overall management at the entity level. Therefore, EBITDA reflected in the segment reconciliations exclude any allocation of general and administrative expenses consistent with our policy for determining segmental operating income, the most directly comparable GAAP measure.

The following is a reconciliation of operating income to EBITDA for the pipeline segment:

	Year Ended December 31,						
	2008	2009	2010	2011	2012	2013	2014
Operating income	$ 135,086	$ 139,869	$ 148,571	$ 146,403	$ 158,590	$ 208,293	$ 245,233
Plus depreciation and amortization expense	50,749	50,528	50,617	51,165	52,878	68,871	77,691
EBITDA	$ 185,835	$ 190,397	$ 199,188	$ 197,568	$ 211,468	$ 277,164	$ 322,924

The following is a reconciliation of operating income (loss) to EBITDA for the storage segment:

	Year Ended December 31,						
	2008	2009	2010	2011	2012	2013	2014
Operating income (loss)	$ 141,079	$ 171,245	$ 178,947	$ 196,508	$ 198,842	$ (127,484)	$ 183,104
Plus depreciation and amortization expense	66,706	70,888	77,071	82,921	88,217	99,868	103,848
EBITDA	$ 207,785	$ 242,133	$ 256,018	$ 279,429	$ 287,059	$ (27,616)	$ 286,952
Impact from non-cash charges						304,453	
Adjusted EBITDA						$ 276,837	

The following is a reconciliation of projected operating income to projected EBITDA for the year ended December 31, 2015:

	Pipeline Segment	Storage Segment
Projected operating income	$ 263,000 - 268,000	$ 213,000 - 218,000
Plus projected depreciation and amortization expense	85,000 - 90,000	114,000 - 119,000
Projected EBITDA	$ 348,000 - 358,000	$ 327,000 - 337,000

The following is a reconciliation of projected operating income to projected EBITDA for the year ended December 31, 2016:

	Pipeline Segment	Storage Segment
Projected operating income	$ 263,000 - 268,000	$ 176,000 - 197,000
Plus projected depreciation and amortization expense	85,000 - 90,000	116,000 - 125,000
Projected EBITDA	$ 348,000 - 358,000	$ 292,000 - 322,000

Reconciliation of Non-GAAP Financial Information

NuStar Energy L.P. utilizes financial measures such as earnings before interest, taxes, depreciation and amortization (EBITDA), distributable cash flow (DCF), adjusted net income and adjusted net income per unit (collectively, financial measures), which are not defined in U.S. generally accepted accounting principles (GAAP). Management uses these financial measures because they are widely accepted financial indicators used by investors to compare partnership performance. In addition, management believes that these financial measures provide investors an enhanced perspective of the operating performance of the partnership's assets and/or the cash that the business is generating. None of these financial measures are presented as an alternative to net income or income from continuing operations. They should not be considered in isolation or as substitutes for a measure of performance prepared in accordance with GAAP. For purposes of segment reporting, we do not allocate general and administrative expenses to our reported operating segments because those expenses relate primarily to the overall management at the entity level. Therefore, EBITDA reflected in the segment reconciliations exclude any allocation of general and administrative expenses consistent with our policy for determining segmental operating income, the most directly comparable GAAP measure.

The following is a reconciliation of projected incremental operating income to projected incremental EBITDA for the year ended December 31, 2015:

	Pipeline Segment	Storage Segment
Projected incremental operating income	$ 18,000 - 23,000	$ 30,000 - 35,000
Plus projected incremental depreciation and amortization expense	7,000 - 12,000	10,000 - 15,000
Projected incremental EBITDA	$ 25,000 - 35,000	$ 40,000 - 50,000

The following is a reconciliation of projected incremental operating income to projected incremental EBITDA for the year ended December 31, 2016:

	Storage Segment
Projected incremental operating income	$ (17,000 - 41,000)
Plus projected incremental depreciation and amortization expense	2,000 - 6,000
Projected incremental EBITDA	$ (15,000 - 35,000)

The following is a reconciliation of projected annual operating income to projected annual EBITDA for a certain project in our pipeline segment:

	South Texas Crude Phase One
Projected annual operating income	$ 19,000
Plus projected annual depreciation and amortization expense	1,000
Projected annual EBITDA	$ 20,000

The following is a reconciliation of projected operating income to projected EBITDA for the fuels marketing segment:

	Year Ended December 31,	
	2016	2015
Projected operating income	$ 15,000 - 35,000	$ 10,000 - 20,000
Plus projected depreciation and amortization expense	-	-
Projected EBITDA	$ 15,000 - 35,000	$ 10,000 - 20,000