2016 MLPA

Master Limited Partnership Investor Conference

June 1 & 2, 2016

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
34.0 million NSH Units
79.2% Membership Interest

William E. Greehey
8.9 million NSH Units
20.8% 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 (5/31/16):	**$25.03**
Annualized Distribution/Unit: $2.18	
Yield (5/31/16):	**8.7%**
Market Capitalization:	**$1.1 billion**
Enterprise Value:	**$1.1 billion**

NuStar Energy L.P.
NYSE: NS

Public Unitholders
67.7 million NS Units
86.9% L.P. Interest

IPO Date: 4/16/2001	
Unit Price (5/31/16):	**$49.17**
Annualized Distribution/Unit: $4.38	
Yield (5/31/16):	**9.0%**
Market Capitalization:	**$3.8 billion**
Enterprise Value:	**$6.9 billion**

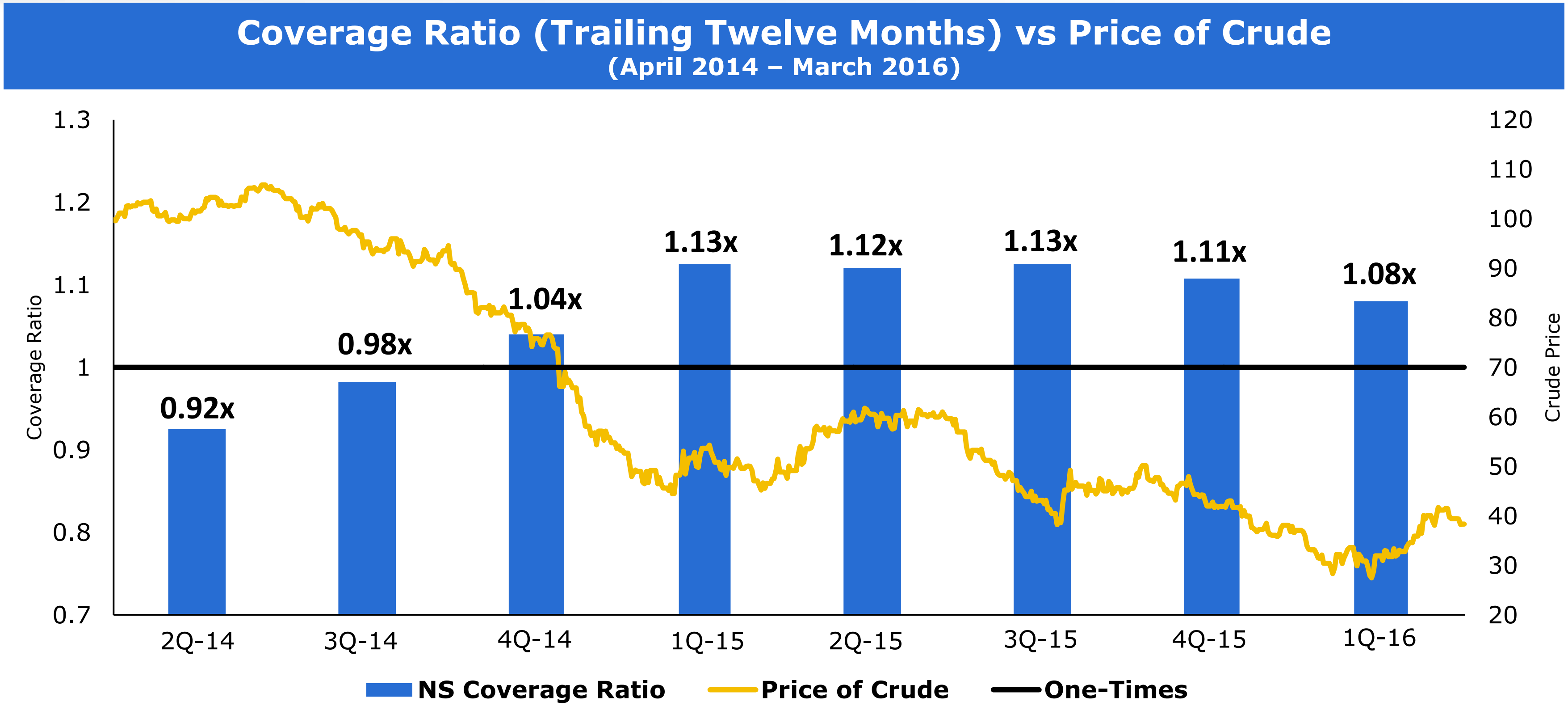
<u>Credit Ratings</u>

Moody's: Ba1/Stable

S&P: BB+/Stable

Fitch: BB/Stable

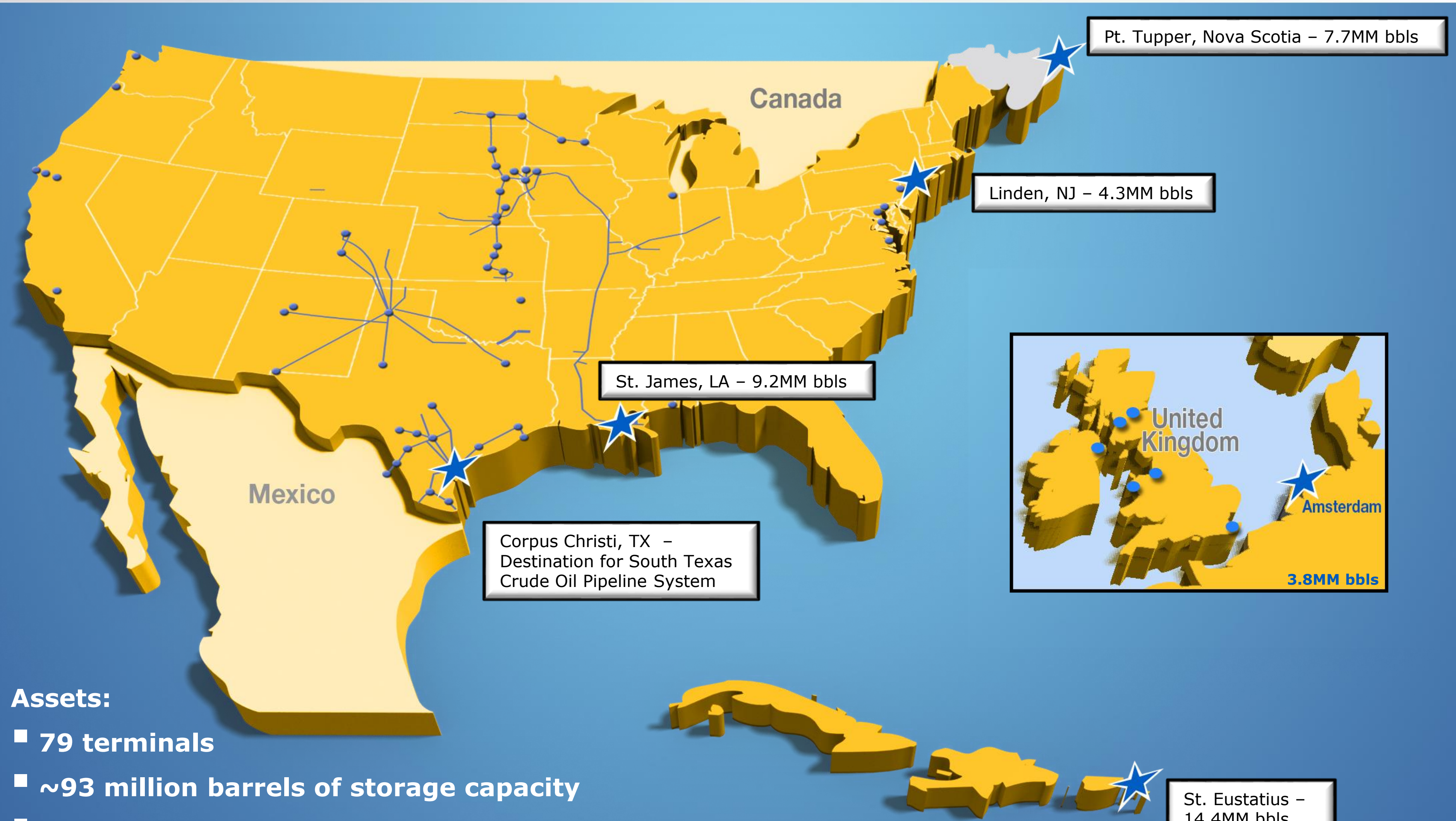
Resilient and Strong Core Operations, No Matter the Price of a Barrel of Crude



- Although valuations of some MLPs have de-coupled from crude prices – we still believe that our valuation does not yet reflect our solid financial results, stable cash flow and overall stability and strength of our business
- Total unitholder return since recent low on January 20, 2016 +97%[1], however still down -17%[1] from last year's high on April 30, 2015.

1 – Total unitholder returns as of May 23, 2016.

Large and Diverse Geographic Footprint with Assets in Key Locations

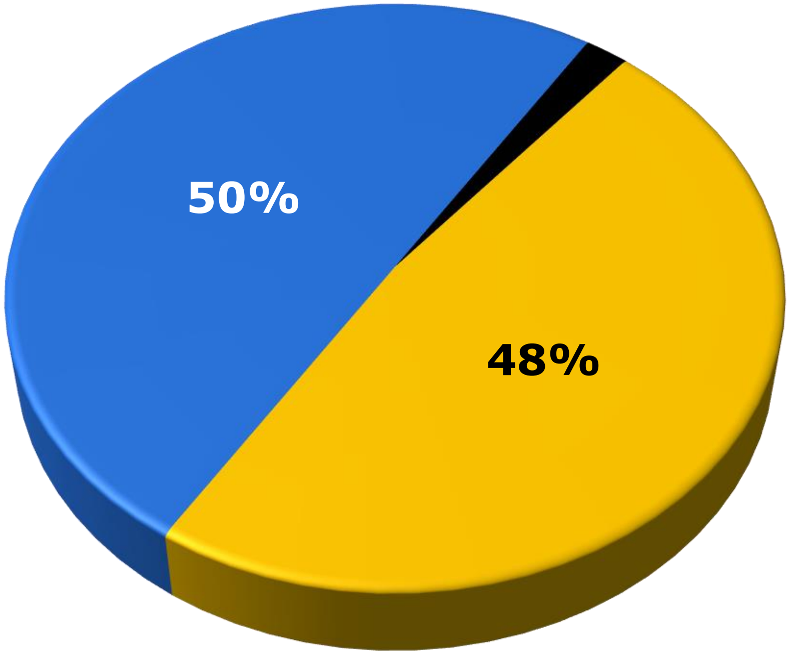


Assets:

- **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 year ended 12/31/15)



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

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

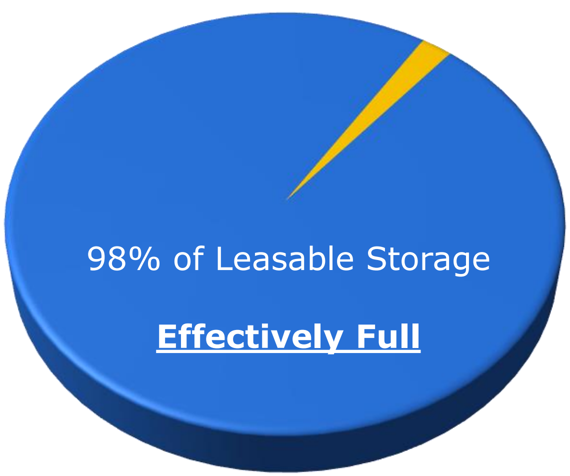
Fuels Marketing: 2%
- Refined Products Marketing, Bunkering and Crude & Fuel Oil Trading

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

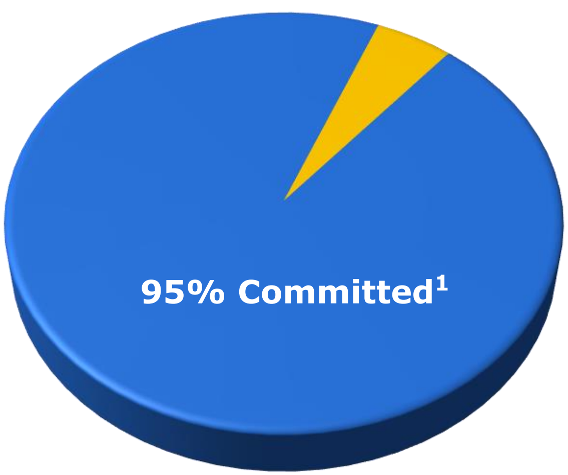
Building on Our Strengths - Stable, Diversified Business Foundation for Future Growth

- Contracted fee-based storage and pipeline assets provide stable cash flows
  - Storage terminals effectively full
  - ~75% of pipeline revenues are demand-pull - 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

Storage Lease Utilization >90%

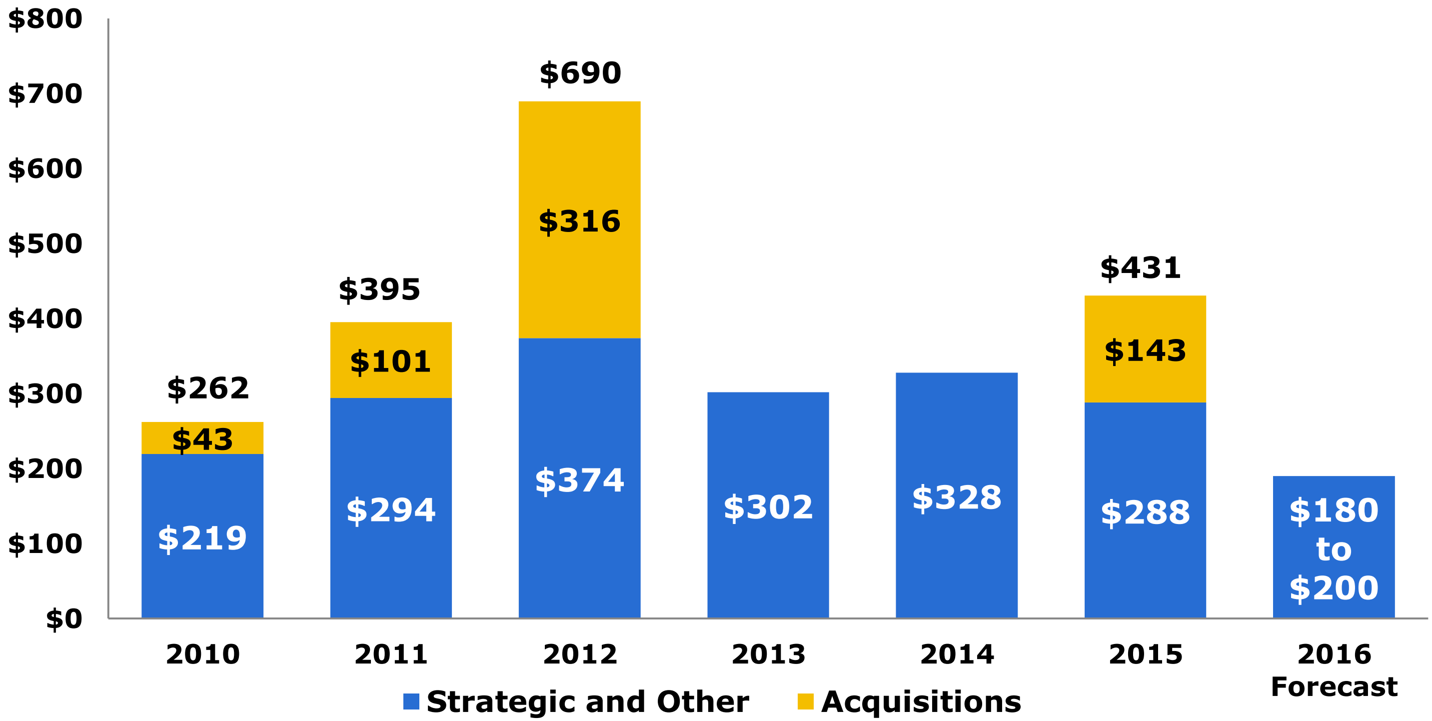


Pipeline Revenue – Contract[1] %



1 – 95% committed through take or pay contracts or through structural exclusivity (uncommitted lines serving refinery customers with no competition)

Expect ~$180 to $200 Million of Strategic Spending in 2016 (Dollars in Millions)



- Initial 2016 forecast reduced by approximately 50% - moving forward with best and highest return projects

- 2016 Total Capital Spending, which includes Reliability Capital, is expected to be in the range of $215 to $245 million in 2016

Pursuing Pipeline and Storage Opportunities

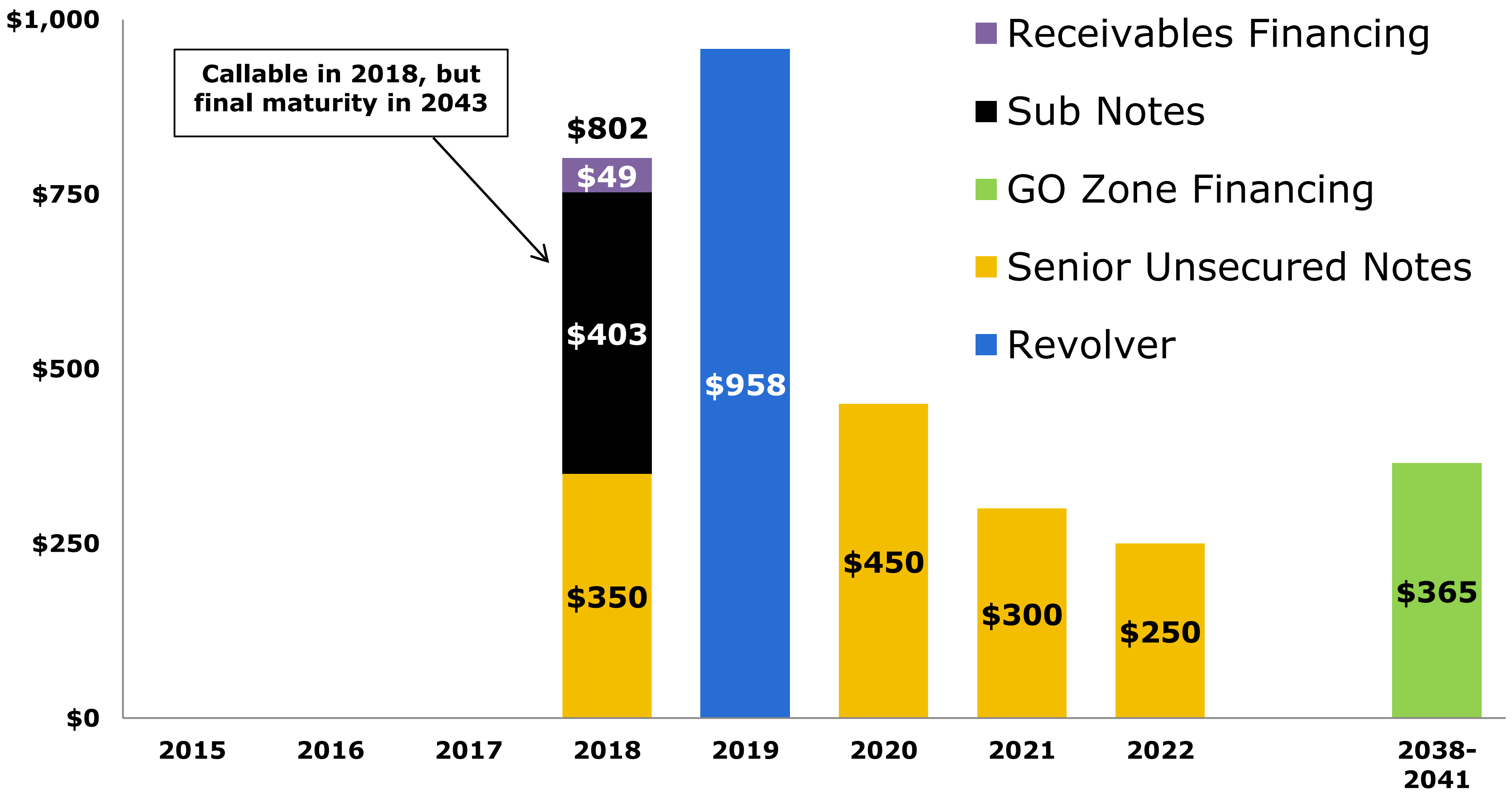
Strategic Growth <u>Opportunities:</u>

- Exceed $1.0 billion[1]
- Focused on developing synergistic, high-return projects

1 – capital spending time horizon is next one to three years.

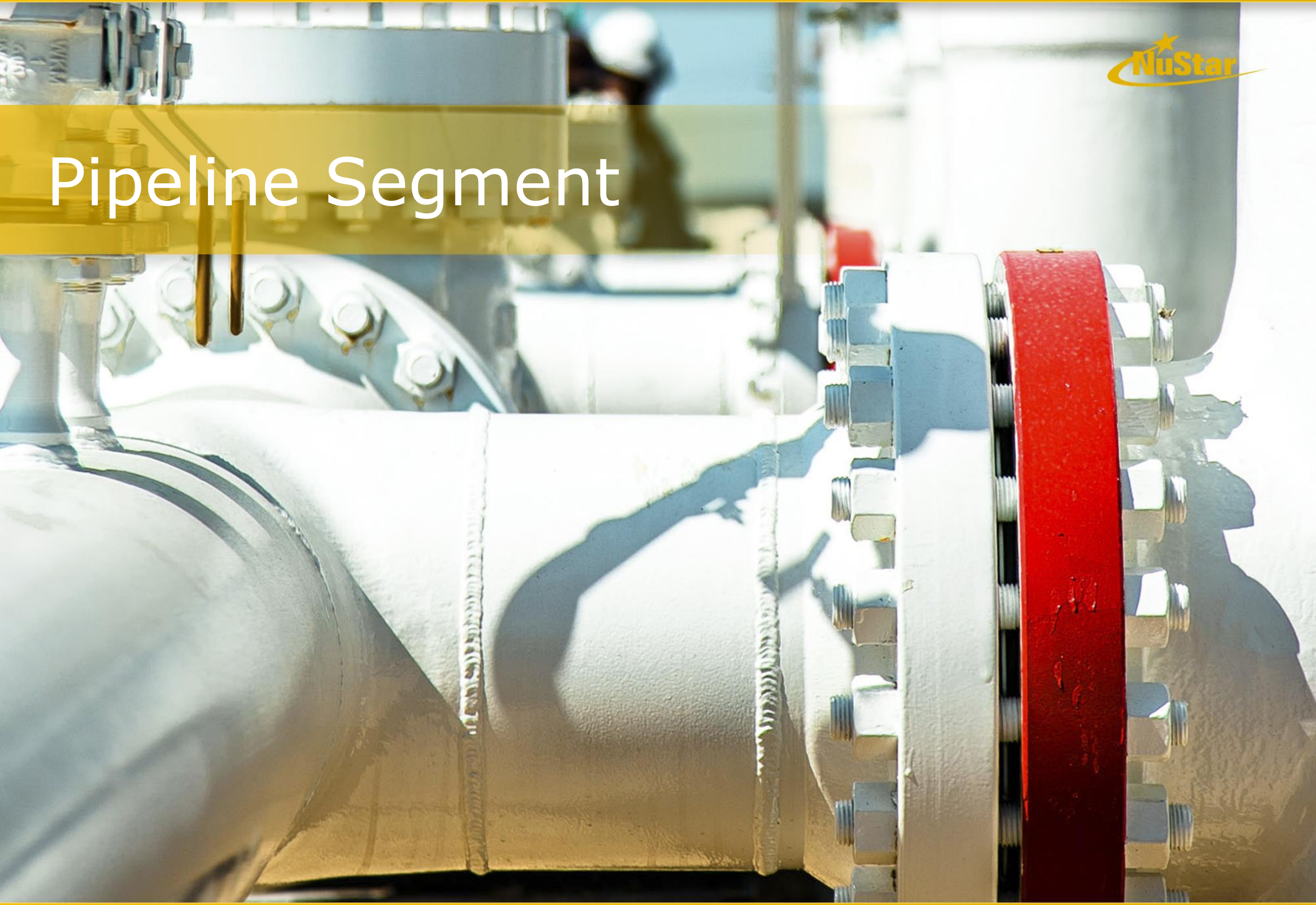
No Debt Maturities until 2018

(LTD Maturity Profile as of March 31, 2016, Dollars in Millions)



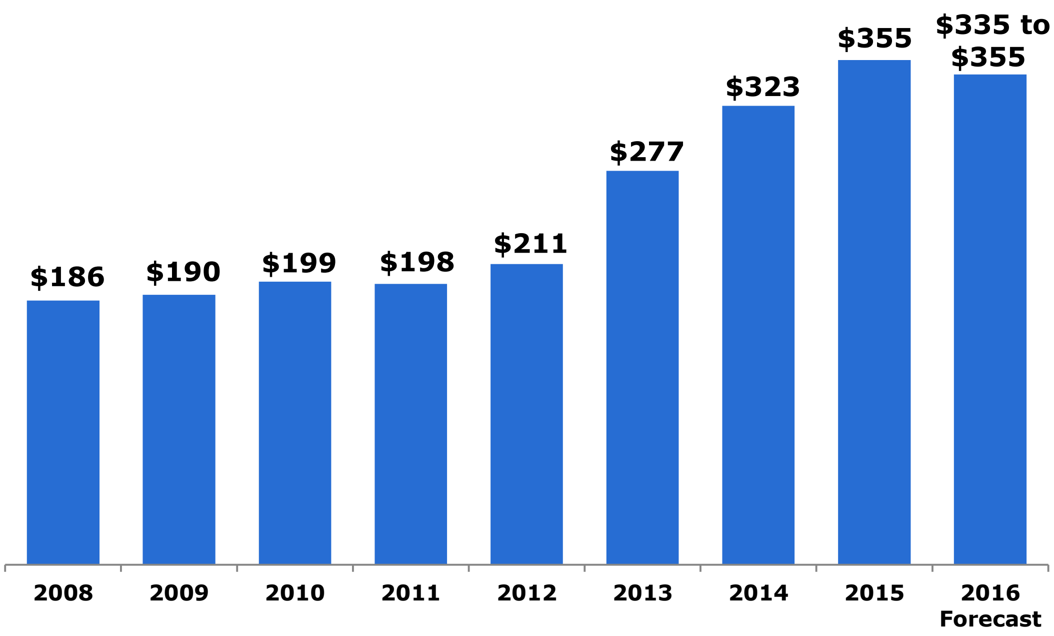
- Long-term Debt structure 55% fixed rate – 45% variable rate

Pipeline Segment

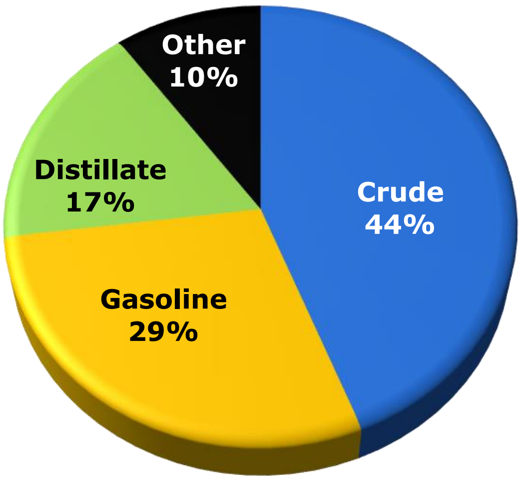


Pipeline Segment Overview

Pipeline Segment EBITDA[1]
($ in millions)



Pipeline Receipts by Commodity
LTM as of 3/31/16

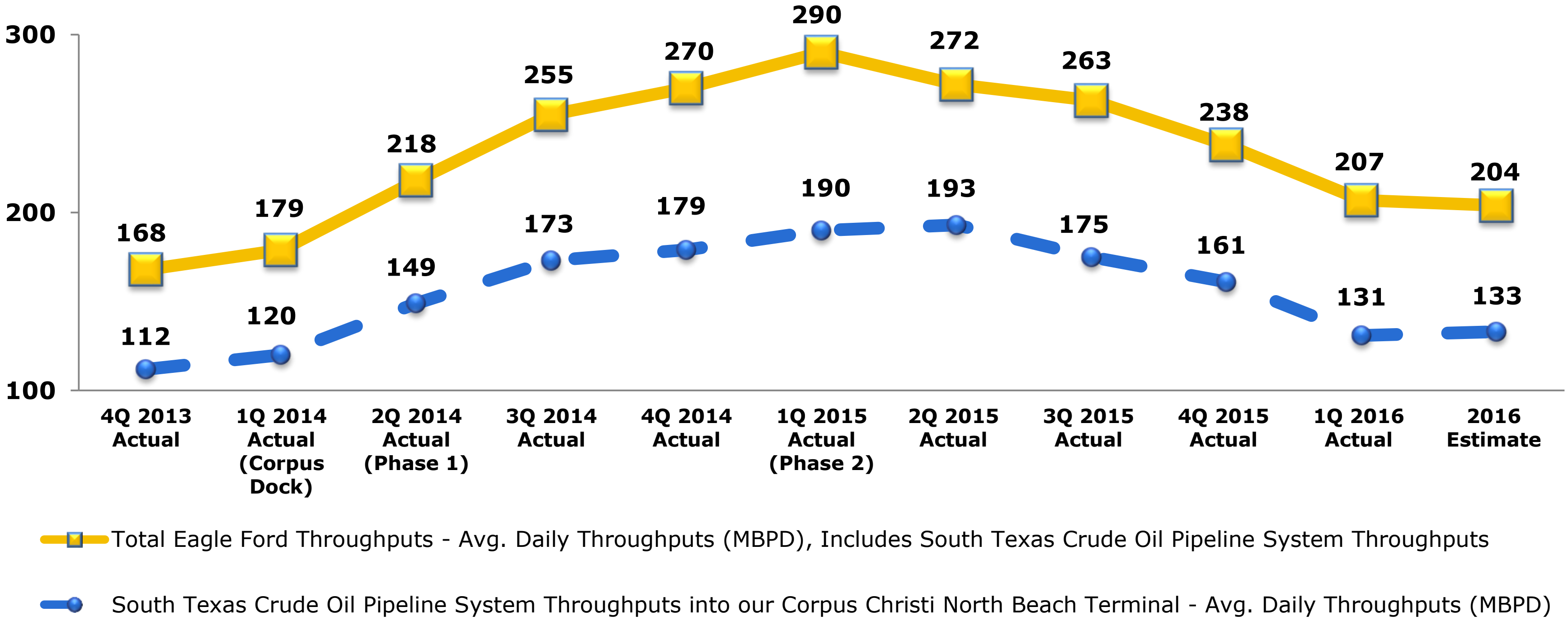


*Other includes ammonia, jet fuel, propane, naphtha and light-end refined products

- 2016 segment EBITDA should be lower 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 slide 25 for reconciliations of EBITDA to its most directly comparable GAAP measure

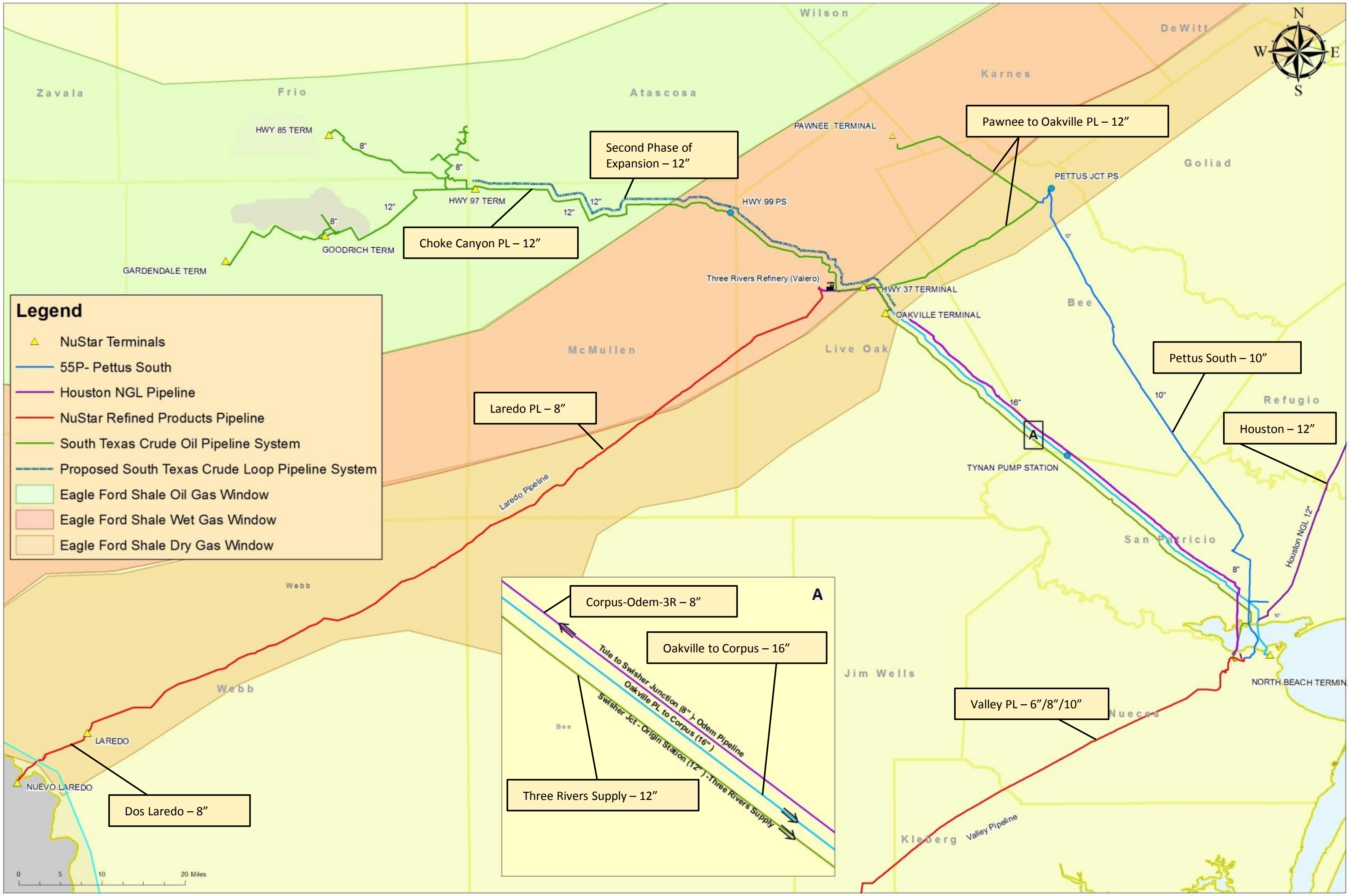
Throughputs in NuStar's South Texas Crude Oil Pipeline System



South Texas Crude Oil Pipeline System:

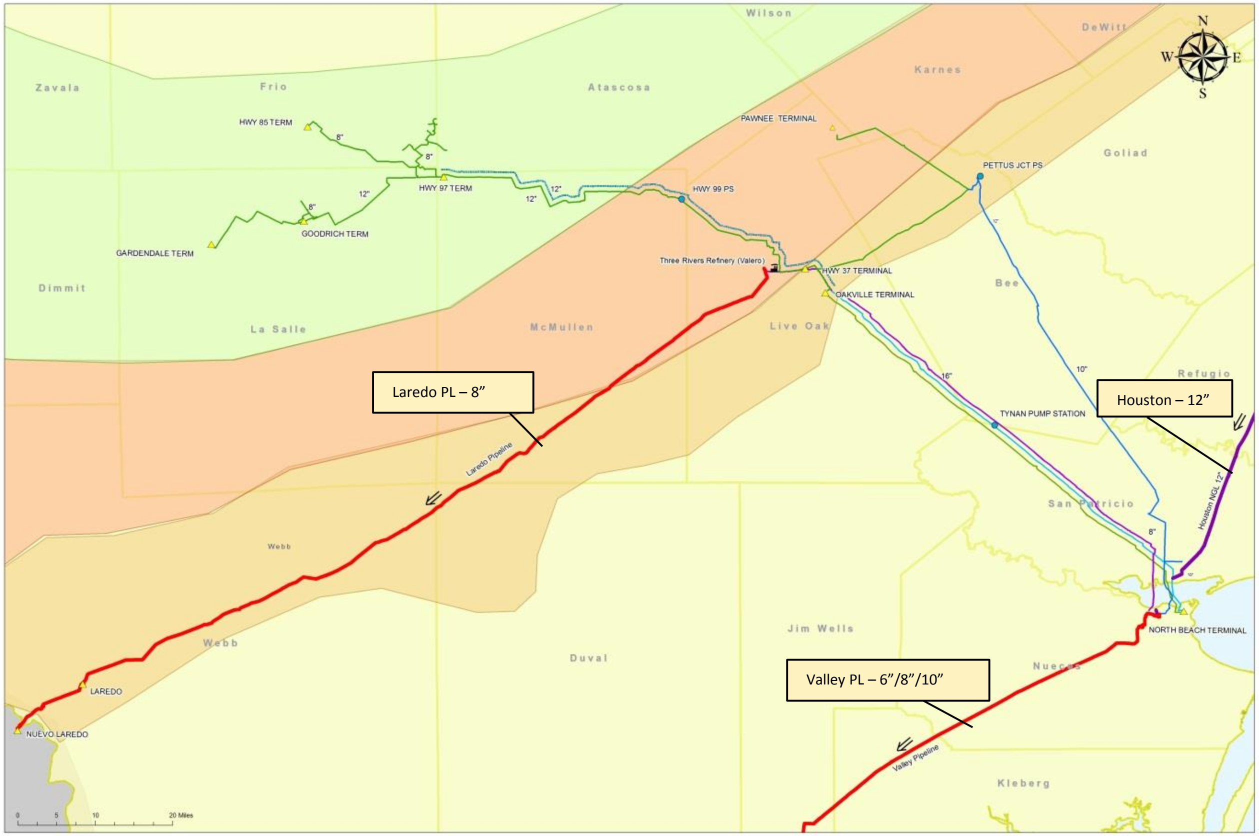
- 2016 guidance at contractual minimums, upside potential with a crude oil price recovery
- Throughput and deficiency agreements with strong, credit-worthy, investment grade customers
- Earliest renewal in 3Q 2018 (2-7 years remaining on all contracts)

NuStar's South Texas Pipeline Presence



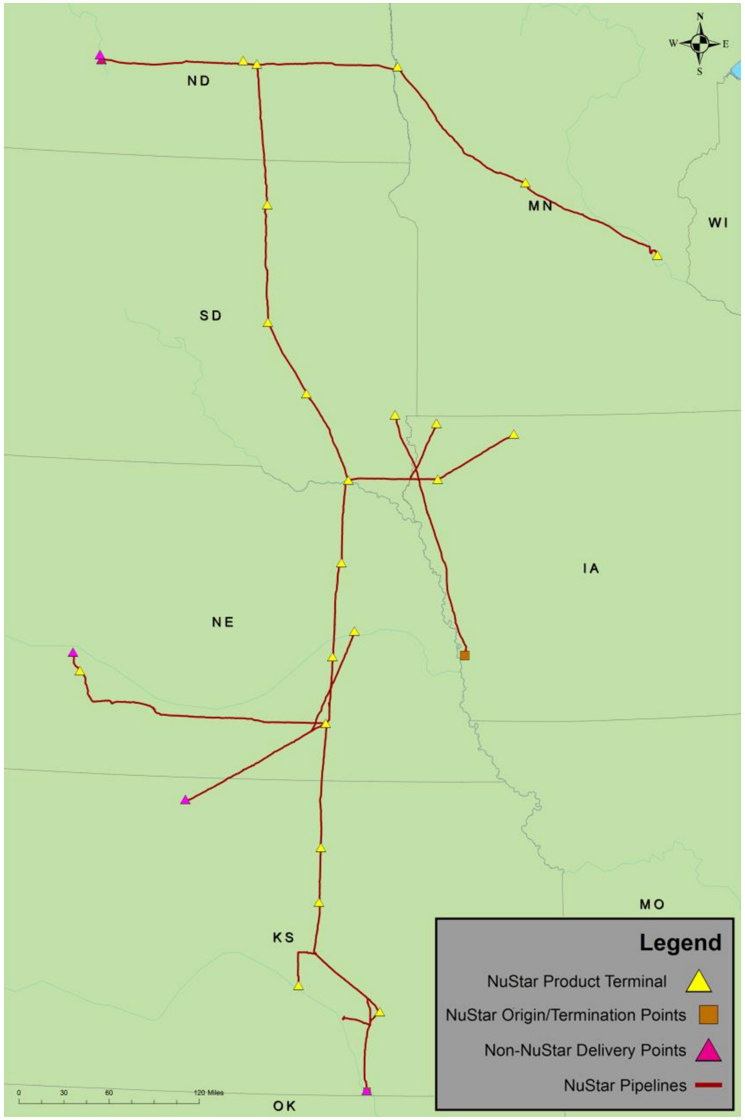
Working with Pemex to Develop Project to Transport LPGs and Refined Products from the U.S. Into Northern Mexico

- Delays due to organizational changes within Pemex
- Originally planned $125 million spend in 2016. Due to project delay, spending reduced to about $10 million in 2016
- Project now expected to be complete in late 2017



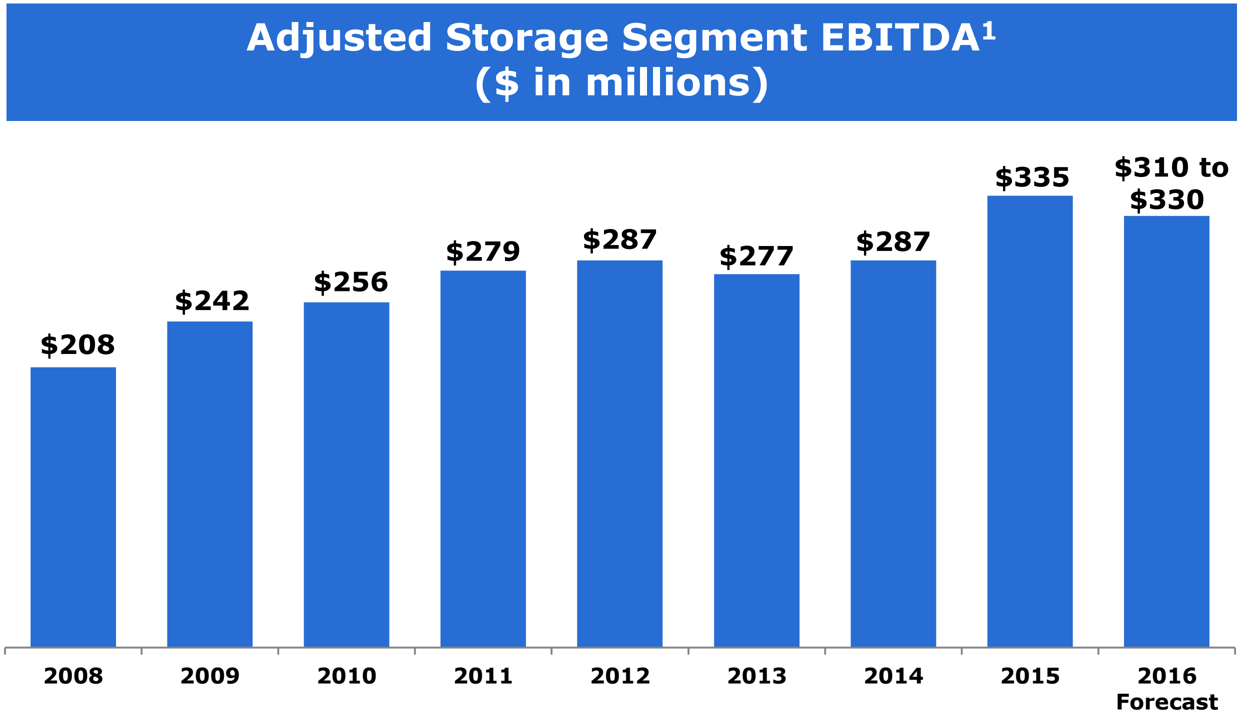
NuStar Expanding Mid-Continent Pipeline and Terminal Network

- Several projects have been completed or are under development with a key customer to increase distillate and propane supply throughout the Upper Midwest for an investment of approximately $70 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 fourth quarter of 2017
- Expect EBITDA multiple in the 4-6x range



Storage Segment

Storage Segment Overview



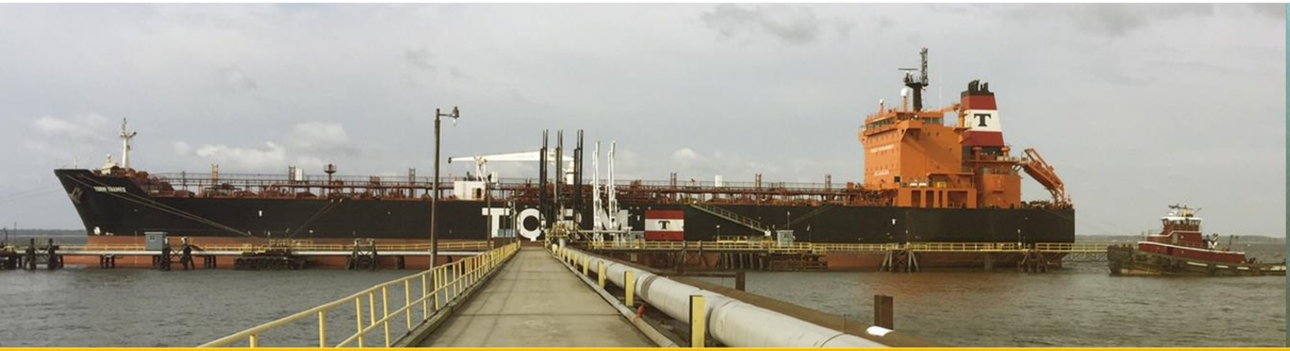
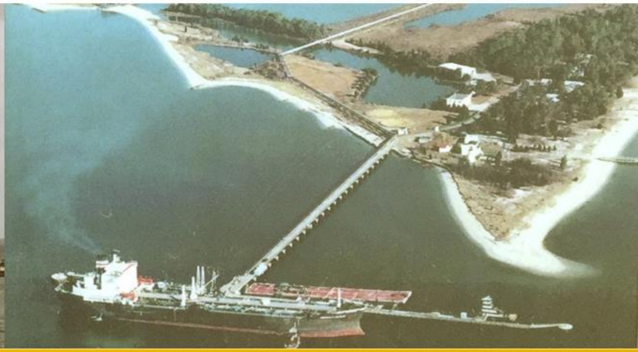
- 2016 segment EBITDA expected to decrease compared to 2015 as the benefit from higher renewal rates and increased utilization should be more than offset by lower expected Eagle Ford throughput volumes into our Corpus Christi North Beach as a result of decreased Eagle Ford shale production.
- A number of contracts expiring in 2016 have upside potential not yet reflected in our EBITDA guidance above.

1 – Please see slide 25 for reconciliations of adjusted EBITDA to its most directly comparable GAAP measure

Piney Point Terminal Back in Service

- Piney Point Terminal
  - 5.4 million-barrel storage facility located in Piney Point, Maryland, along the Potomac River
  - Primary storage capabilities include gasoline, distillates and other clean products
  - Reactivated due to favorable market economics

- Recently signed up storage commitments for 1.1 million barrels
  - Contract allows customer to take advantage of the contango market structure
  - First delivery of 189,000 barrels of ULSD arrived on April 21, 2016

Fuels Marketing Segment

Fuels Marketing Segment Benefits Base Business

- Segment is composed of:
  - Refined Products Marketing
    - Primarily butane blending, which is a consistent and low risk business
  - Bunkering
  - Crude & Fuel Oil Trading
- Fuels Marketing Segment currently pays Storage Segment approximately $26 million in annual storage fees
  - For storage otherwise idled or with challenging economics/locale
  - Represents around 4% of Storage Segment revenues
- 2016 EBITDA results for the segment are expected to be $15 to $35 million[1]

1 – Please see slide 25 for reconciliations of adjusted EBITDA to its most directly comparable GAAP measure

Appendix

Capital Structure
(as of March 31, 2016, Dollars in Millions)

$1.5 billion Credit Facility	$958
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	49
Net unamortized discount and fair value adjustments	24
Deferred Debt	(23)
Total Long-term Debt	$3,126
Total Short-term Debt	81
Total Partners' Equity	1,557
Total Capitalization	$4,764

- Availability under $1.5 billion Credit Facility (as of March 31, 2016): ~$523 million
  - $958 million in borrowings and $19 million in Letters of Credit outstanding
  - Debt to EBITDA calculation per Credit Facility of 4.6x (as of March 31, 2016)

Reconciliation of Non-GAAP Financial Information

Reconciliation of Non-GAAP Financial Information
(Unaudited, Thousands of Dollars)

NuStar Energy L.P. utilizes financial measures, earnings before interest, taxes, depreciation and amortization (EBITDA) from continuing operations, distributable cash flow (DCF) from continuing operations, DCF from continuing operations per unit, adjusted net income and adjusted net income per unit (EPU), 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 measures provide investors an enhanced perspective of the operating performance of the partnership's assets and the cash that the business is generating. None of EBITDA from continuing operations, DCF from continuing operations, DCF from continuing operations per unit, adjusted net income and adjusted EPU are intended to represent cash flows from operations for the period, nor are they 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	2015
Operating income	$ 135,086	$ 139,869	$ 148,571	$ 146,403	$ 158,590	$ 208,293	$ 245,233	$ 270,349
Plus depreciation and amortization expense	50,749	50,528	50,617	51,165	52,878	68,871	77,691	84,951
EBITDA	$ 185,835	$ 190,397	$ 199,188	$ 197,568	$ 211,468	$ 277,164	$ 322,924	$ 355,300

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	2015
Operating income (loss)	$ 141,079	$ 171,245	$ 178,947	$ 196,508	$ 198,842	$ (127,484)	$ 183,104	$ 217,818
Plus depreciation and amortization expense	66,706	70,888	77,071	82,921	88,217	99,868	103,848	116,768
EBITDA	$ 207,785	$ 242,133	$ 256,018	$ 279,429	$ 287,059	$ (27,616)	$ 286,952	$ 334,586
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, 2016:

	Pipeline Segment	Storage Segment	Fuels Marketing Segment
Projected operating income	$ 250,000 - 265,000	$ 195,000 - 210,000	$ 15,000 - 35,000
Plus projected depreciation and amortization expense	85,000 - 90,000	115,000 - 120,000	-
Projected EBITDA	$ 335,000 - 355,000	$ 310,000 - 330,000	$ 15,000 - 35,000