
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

Form 10-Q

Quarterly report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the quarterly period ended September 30, 2016

Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Commission File Number 1-7615

KIRBY CORPORATION

(Exact name of registrant as specified in its charter)

Nevada
(State or other jurisdiction of incorporation or organization)

74-1884980
(IRS Employer Identification No.)

55 Waugh Drive, Suite 1000
Houston, TX
(Address of principal executive offices)

77007
(Zip Code)

(713) 435-1000
(Registrant's telephone number, including area code)

No Change
(Former name, former address and former fiscal year, if changed since last report)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulations S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "large accelerated filer" and "accelerated filer" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The number of shares outstanding of the registrant's Common Stock, \$.10 par value per share, on November 2, 2016 was 53,855,000.

PART I – FINANCIAL INFORMATION

Item 1. Financial Statements

KIRBY CORPORATION AND CONSOLIDATED SUBSIDIARIES

CONDENSED BALANCE SHEETS
(Unaudited)

ASSETS

	September 30, 2016	December 31, 2015
	(\$ in thousands)	
Current assets:		
Cash and cash equivalents	\$ 5,381	\$ 5,885
Accounts receivable:		
Trade – less allowance for doubtful accounts	250,362	290,931
Other	76,728	102,443
Inventories – net	179,110	184,511
Prepaid expenses and other current assets	55,902	45,283
Deferred income taxes	11,263	11,723
	<u>578,746</u>	<u>640,776</u>
Property and equipment	4,304,269	4,059,763
Less accumulated depreciation	<u>(1,385,354)</u>	<u>(1,280,783)</u>
	2,918,915	2,778,980
Goodwill	587,703	586,718
Other assets	138,463	145,807
	<u>\$ 4,223,827</u>	<u>\$ 4,152,281</u>

See accompanying notes to condensed financial statements.

KIRBY CORPORATION AND CONSOLIDATED SUBSIDIARIES

CONDENSED BALANCE SHEETS
(Unaudited)

LIABILITIES AND STOCKHOLDERS' EQUITY

	September 30,	December 31,
	2016	2015
	(\$ in thousands)	
Current liabilities:		
Income taxes payable	\$ 126	\$ 3,564
Accounts payable	117,942	132,799
Accrued liabilities	164,277	184,254
Deferred revenues	35,220	41,300
	<u>317,565</u>	<u>361,917</u>
Total current liabilities	317,565	361,917
Long-term debt – less current portion	726,004	774,849
Deferred income taxes	714,515	669,808
Other long-term liabilities	78,994	66,511
	<u>1,519,513</u>	<u>1,511,168</u>
Total long-term liabilities	1,519,513	1,511,168
Contingencies and commitments	—	—
Equity:		
Kirby stockholders' equity:		
Common stock, \$.10 par value per share. Authorized 120,000,000 shares, issued 59,776,000 shares	5,978	5,978
Additional paid-in capital	430,479	434,783
Accumulated other comprehensive income – net	(46,451)	(44,686)
Retained earnings	2,309,881	2,200,830
Treasury stock – at cost, 5,921,000 at September 30, 2016 and 6,056,000 at December 31, 2015	(320,364)	(328,094)
Total Kirby stockholders' equity	2,379,523	2,268,811
Noncontrolling interests	7,226	10,385
Total equity	2,386,749	2,279,196
Total liabilities and equity	\$ 4,223,827	\$ 4,152,281

See accompanying notes to condensed financial statements.

KIRBY CORPORATION AND CONSOLIDATED SUBSIDIARIES

CONDENSED STATEMENTS OF EARNINGS
(Unaudited)

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
	(\$ in thousands, except per share amounts)			
Revenues:				
Marine transportation	\$ 359,031	\$ 418,343	\$ 1,115,677	\$ 1,263,301
Diesel engine services	75,677	114,222	219,346	400,093
Total revenues	<u>434,708</u>	<u>532,565</u>	<u>1,335,023</u>	<u>1,663,394</u>
Costs and expenses:				
Costs of sales and operating expenses	282,168	333,115	847,975	1,061,641
Selling, general and administrative	40,645	48,759	133,948	148,968
Taxes, other than on income	5,445	5,482	16,317	15,405
Depreciation and amortization	50,142	49,759	148,427	142,350
Loss (gain) on disposition of assets	122	400	(39)	(1,246)
Total costs and expenses	<u>378,522</u>	<u>437,515</u>	<u>1,146,628</u>	<u>1,367,118</u>
Operating income	56,186	95,050	188,395	296,276
Other income (expense)	(120)	22	194	(221)
Interest expense	<u>(4,507)</u>	<u>(4,449)</u>	<u>(13,213)</u>	<u>(14,458)</u>
Earnings before taxes on income	51,559	90,623	175,376	281,597
Provision for taxes on income	<u>(19,206)</u>	<u>(33,512)</u>	<u>(65,430)</u>	<u>(104,699)</u>
Net earnings	32,353	57,111	109,946	176,898
Less: Net earnings attributable to noncontrolling interests	<u>(343)</u>	<u>(268)</u>	<u>(895)</u>	<u>(902)</u>
Net earnings attributable to Kirby	<u>\$ 32,010</u>	<u>\$ 56,843</u>	<u>\$ 109,051</u>	<u>\$ 175,996</u>
Net earnings per share attributable to Kirby common stockholders:				
Basic	<u>\$ 0.59</u>	<u>\$ 1.04</u>	<u>\$ 2.03</u>	<u>\$ 3.18</u>
Diluted	<u>\$ 0.59</u>	<u>\$ 1.04</u>	<u>\$ 2.02</u>	<u>\$ 3.17</u>

See accompanying notes to condensed financial statements.

KIRBY CORPORATION AND CONSOLIDATED SUBSIDIARIES

CONDENSED STATEMENTS OF COMPREHENSIVE INCOME
(Unaudited)

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
	(\$ in thousands)			
Net earnings	\$ 32,353	\$ 57,111	\$ 109,946	\$ 176,898
Other comprehensive income (loss), net of taxes:				
Pension and postretirement benefits	735	1,074	(1,765)	4,640
Foreign currency translation adjustments	—	49	—	81
Total other comprehensive income (loss), net of taxes	735	1,123	(1,765)	4,721
Total comprehensive income, net of taxes	33,088	58,234	108,181	181,619
Net earnings attributable to noncontrolling interests	(343)	(268)	(895)	(902)
Comprehensive income attributable to Kirby	\$ 32,745	\$ 57,966	\$ 107,286	\$ 180,717

See accompanying notes to condensed financial statements.

KIRBY CORPORATION AND CONSOLIDATED SUBSIDIARIES

CONDENSED STATEMENTS OF CASH FLOWS
(Unaudited)

	Nine months ended September 30,	
	2016	2015
	(\$ in thousands)	
Cash flows from operating activities:		
Net earnings	\$ 109,946	\$ 176,898
Adjustments to reconcile net earnings to net cash provided by operations:		
Depreciation and amortization	148,427	142,350
Provision for deferred income taxes	46,264	19,722
Amortization of unearned share-based compensation	8,841	8,378
Amortization of major maintenance costs	14,210	17,160
Amortization of debt issuance costs	600	1,176
Other	(1,090)	844
Increase in cash flows resulting from changes in operating assets and liabilities, net	9,295	10,941
Net cash provided by operating activities	<u>336,493</u>	<u>377,469</u>
Cash flows from investing activities:		
Capital expenditures	(169,305)	(265,202)
Acquisitions of businesses and marine equipment	(125,632)	(41,250)
Proceeds from disposition of assets	15,136	13,102
Net cash used in investing activities	<u>(279,801)</u>	<u>(293,350)</u>
Cash flows from financing activities:		
Borrowings (payments) on bank credit facilities, net	(49,445)	192,398
Payments on long-term debt	—	(100,000)
Proceeds from exercise of stock options	321	3,712
Purchase of treasury stock	(1,827)	(202,155)
Acquisition of noncontrolling interest	(4,160)	—
Excess tax benefit from equity compensation plans	—	1,015
Other	(2,085)	(873)
Net cash used in financing activities	<u>(57,196)</u>	<u>(105,903)</u>
Decrease in cash and cash equivalents	(504)	(21,784)
Cash and cash equivalents, beginning of year	5,885	24,299
Cash and cash equivalents, end of period	<u>\$ 5,381</u>	<u>\$ 2,515</u>
Supplemental disclosures of cash flow information:		
Interest paid	\$ 18,930	\$ 19,476
Income taxes paid	\$ 14,901	\$ 68,952
Capital expenditures included in accounts payable	\$ (2,296)	\$ —
Fair value of property transferred in acquisition	\$ 3,681	\$ —

See accompanying notes to condensed financial statements.

KIRBY CORPORATION AND CONSOLIDATED SUBSIDIARIES

NOTES TO CONDENSED FINANCIAL STATEMENTS
(Unaudited)

(1) BASIS FOR PREPARATION OF THE CONDENSED FINANCIAL STATEMENTS

The condensed financial statements included herein have been prepared by Kirby Corporation (the “Company”), without audit, pursuant to the rules and regulations of the Securities and Exchange Commission. Although the Company believes that the disclosures are adequate to make the information presented not misleading, certain information and footnote disclosures, including significant accounting policies normally included in annual financial statements, have been condensed or omitted pursuant to such rules and regulations. It is suggested that these condensed financial statements be read in conjunction with the Company’s Annual Report on Form 10-K for the year ended December 31, 2015.

(2) ACCOUNTING STANDARDS ADOPTIONS

In August 2016, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) 2016-15, “Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments” (“ASU 2016-15”) to create consistency in practice in how certain cash receipts and cash payments are presented and classified in the statement of cash flows. ASU 2016-15 is effective for annual and interim periods beginning after December 15, 2017. Early adoption is permitted. The Company is currently evaluating the impact that the adoption of this standard will have on its consolidated financial statements.

In March 2016, the FASB issued ASU 2016-09, “Improvements to Employee Share-Based Payment Accounting” (“ASU 2016-09”) which simplifies several aspects of the accounting for share-based payment transactions, including income tax consequences, forfeitures, minimum statutory tax withholding requirements, classification as either equity or liabilities, and classification on the statement of cash flows. ASU 2016-09 is effective for annual and interim periods beginning after December 15, 2016. Early adoption is permitted with any adjustments reflected as of the beginning of the fiscal year of adoption. The Company is currently evaluating the impact of adopting this guidance.

In February 2016, the FASB issued ASU No. 2016-02, “Leases (Topic 842)” (“ASU 2016-02”) to increase transparency and comparability among organizations by requiring recognition of lease assets and lease liabilities on the balance sheet and disclosure of key information about leasing arrangements. ASU 2016-02 is effective for annual and interim periods beginning after December 15, 2018, with early adoption permitted. The Company is currently evaluating the impact that the adoption of this standard will have on its consolidated financial statements and disclosures.

In November 2015, the FASB issued ASU 2015-17, “Balance Sheet Classification of Deferred Taxes” (“ASU 2015-17”) which requires that deferred tax liabilities and assets be classified as noncurrent on the balance sheet. The current requirement that deferred tax liabilities and assets of a tax-paying component of an entity be offset and presented as a single amount is not affected by this guidance. ASU 2015-17 is effective for annual and interim periods beginning after December 15, 2016 but early application is permitted and the guidance may be applied either prospectively to all deferred tax liabilities and assets or retrospectively to all periods presented. The Company does not anticipate a material impact on its consolidated financial statements at the time of adoption of this new standard.

In July 2015, the FASB issued ASU 2015-11, “Inventory (Topic 330): Simplifying the Measurement of Inventory” (“ASU 2015-11”) which applies to inventory that is measured using first-in, first-out (“FIFO”) or average cost. Under the guidance, an entity should measure inventory that is within the scope of this update at the lower of cost and net realizable value. Net realizable value is the estimated selling prices in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation. ASU 2015-11 is effective for annual and interim periods beginning after December 15, 2016, and should be applied prospectively with early adoption permitted at the beginning of an interim or annual reporting period. The Company is currently evaluating the impact of adopting this guidance.

In April 2015, the FASB issued ASU 2015-03, "Simplifying the Presentation of Debt Issuance Costs" ("ASU 2015-03"). ASU 2015-03 requires debt issuance costs to be presented in the balance sheet as a direct deduction from the associated debt liability. Effective January 1, 2016, the Company adopted the provisions of ASU 2015-03 and prior period amounts have been reclassified to conform to the current period presentation. The December 31, 2015 net debt issuance costs of \$3,985,000 have been reclassified in the consolidated balance sheet from other assets to long-term debt, less current portion.

In May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers" ("ASU 2014-09"). ASU 2014-09 requires an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods or services to customers. ASU 2014-09 will replace most existing revenue recognition guidance in United States Generally Accepted Accounting Principles when it becomes effective. In July 2015, the FASB voted to delay the effective date of ASU 2014-09 by one year, making it effective for fiscal years, and interim periods within those years, beginning after December 15, 2017, with early adoption permitted as of the original effective date. ASU 2014-09 permits the use of either the retrospective or cumulative effect transition method. The Company is evaluating the effect that ASU 2014-09 will have on its consolidated financial statements and related disclosures. The Company has not yet selected a transition method nor has it determined the effect of ASU 2014-09 on its ongoing financial reporting.

(3) ACQUISITIONS

On April 15, 2016, the Company purchased the inland tank barge fleet of SEACOR Holdings Inc. ("Seacor") from subsidiaries of Seacor for a total value of \$91,681,000. The assets purchased consisted of 27 inland 30,000 barrel tank barges and 13 inland towboats, as well as one 30,000 barrel inland tank barge and one towboat under construction. The purchase price was comprised of a \$79,200,000 cash payment on April 15, 2016 and holdbacks of \$7,000,000 for new construction and \$1,800,000 for inland tank barge maintenance and repairs and the Company transferred ownership to Seacor of a Florida-based ship docking tugboat with a value of \$3,681,000. The \$1,800,000 holdback for maintenance and repairs was paid in May 2016 and \$4,500,000 of the \$7,000,000 holdback for new construction was paid in July 2016 with the remaining \$2,500,000 expected to be paid by December 31, 2016. The average age of the 27 inland tank barges was ten years. Seacor, through its subsidiary, SCF Waxler Marine LLC, transported refined petroleum products, petrochemicals and black oil on the Mississippi River System and the Gulf Intracoastal Waterway. As a result of the acquisition, the Company recorded \$985,000 of goodwill and expects all of the goodwill to be deductible for tax purposes. No intangibles other than goodwill were identified in the acquisition.

On June 2, 2016, the Company purchased four coastal tugboats from Crosby Marine Transportation LLC ("Crosby Marine") for \$26,450,000 in cash. The four coastal tugboats have an average age of 13 years.

On June 30, 2016, the Company purchased an 80,000 barrel coastal tank barge from TD Equipment Finance, Inc. ("TD Equipment") for \$13,682,000 in cash. The Company had been leasing the barge from TD Equipment prior to its purchase.

Pro forma results of the acquisitions made in the 2016 first nine months have not been presented as the pro forma revenues, earnings before taxes on income, net earnings and net earnings per share would not be materially different from the Company's actual results.

(4) INVENTORIES

The following table presents the details of inventories as of September 30, 2016 and December 31, 2015 (in thousands):

	September 30, 2016	December 31, 2015
Finished goods	\$ 173,942	\$ 163,501
Work in process	5,168	21,010
	<u>\$ 179,110</u>	<u>\$ 184,511</u>

(5) FAIR VALUE MEASUREMENTS

The estimated fair value of total debt outstanding at September 30, 2016 and December 31, 2015 was \$732,124,000 and \$764,781,000, respectively, which differs from the carrying amounts of \$726,004,000 and \$774,849,000, respectively, included in the consolidated financial statements. The fair value was determined using an income approach that relies on inputs such as yield curves. Cash and cash equivalents, accounts receivable, accounts payable and accrued liabilities have carrying values that approximate fair value due to the short-term maturity of these financial instruments.

Certain assets are measured at fair value on a nonrecurring basis. These assets are adjusted to fair value when there is evidence of impairment. During the nine months ended September 30, 2016, there was no indication that the Company's long-lived assets were impaired, and accordingly, measurement at fair value was not required.

(6) STOCK AWARD PLANS

The Company has share-based compensation plans which are described below. The compensation cost that has been charged against earnings for the Company's stock award plans and the income tax benefit recognized in the statement of earnings for stock awards for the three months and nine months ended September 30, 2016 and 2015 were as follows (in thousands):

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
Compensation cost	\$ 3,296	\$ 3,127	\$ 8,841	\$ 8,378
Income tax benefit	\$ 1,236	\$ 1,161	\$ 3,315	\$ 3,125

The Company has an employee stock award plan for selected officers and other key employees which provides for the issuance of stock options, restricted stock and performance awards. The exercise price for each option equals the fair market value per share of the Company's common stock on the date of grant. Substantially all stock options outstanding under the plan have terms of seven years and vest ratably over three years. No performance awards payable in stock have been awarded under the plan. At September 30, 2016, 1,987,792 shares were available for future grants under the employee plan and no outstanding stock options under the employee plan were issued with stock appreciation rights.

The following is a summary of the stock option activity under the employee plan described above for the nine months ended September 30, 2016:

	Outstanding Non- Qualified or Nonincentive Stock Awards	Weighted Average Exercise Price
Outstanding at December 31, 2015	430,432	\$ 71.01
Granted	186,706	\$ 53.50
Forfeited	(16,017)	\$ 80.17
Outstanding at September 30, 2016	<u>601,121</u>	<u>\$ 65.33</u>

The following table summarizes information about the Company's outstanding and exercisable stock options under the employee plan at September 30, 2016:

Range of Exercise Prices	Options Outstanding				Options Exercisable		
	Number Outstanding	Weighted Average Remaining Contractual Life in Years	Weighted Average Exercise Price	Aggregate Intrinsic Value	Number Exercisable	Weighted Average Exercise Price	Aggregate Intrinsic Value
\$ 31.35 - \$36.35	16,910	0.4	\$ 32.82		16,910	\$ 32.82	
\$ 46.74 - \$51.23	212,335	5.0	\$ 50.03		56,629	\$ 46.74	
\$ 64.89 - \$74.99	302,735	4.3	\$ 70.29		202,309	\$ 69.51	
\$ 93.64 - \$96.85	33,987	4.3	\$ 94.31		22,658	\$ 94.31	
\$ 101.46 - \$104.37	35,154	4.4	\$ 102.60		23,436	\$ 102.60	
\$ 31.35 - \$104.37	<u>601,121</u>	4.5	\$ 65.33	\$ 3,071,000	<u>321,942</u>	\$ 67.73	\$ 1,369,000

The following is a summary of the restricted stock award activity under the employee plan described above for the nine months ended September 30, 2016:

	Unvested Restricted Stock Award Shares	Weighted Average Grant Date Fair Value Per Share
Nonvested balance at December 31, 2015	311,727	\$ 75.73
Granted	190,150	\$ 53.55
Vested	(104,939)	\$ 69.95
Forfeited	(19,393)	\$ 76.04
Nonvested balance at September 30, 2016	<u>377,545</u>	<u>\$ 66.15</u>

The Company has a stock award plan for nonemployee directors of the Company which provides for the issuance of stock options and restricted stock. The director plan provides for automatic grants of restricted stock to nonemployee directors after each annual meeting of stockholders. In addition, the director plan allows for the issuance of stock options or restricted stock in lieu of cash for all or part of the annual director fee at the option of the director. The exercise prices for all options granted under the plan are equal to the fair market value per share of the Company's common stock on the date of grant. The terms of the options are ten years. The restricted stock issued after each annual meeting of stockholders vests six months after the date of grant. Options granted and restricted stock issued in lieu of cash director fees vest in equal quarterly increments during the year to which they relate. At September 30, 2016, 522,457 shares were available for future grants under the director plan. The director stock award plan is intended as an incentive to attract and retain qualified independent directors.

The following is a summary of the stock option activity under the director plan described above for the nine months ended September 30, 2016:

	Outstanding Non- Qualified or Nonincentive Stock Options	Weighted Average Exercise Price
Outstanding at December 31, 2015	220,429	\$ 64.37
Exercised	(9,000)	\$ 35.72
Forfeited	(6,000)	\$ 99.52
Outstanding at September 30, 2016	<u>205,429</u>	<u>\$ 64.60</u>

The following table summarizes information about the Company's outstanding and exercisable stock options under the director plan at September 30, 2016:

Range of Exercise Prices	Options Outstanding				Options Exercisable		
	Number Outstanding	Weighted Average Remaining Contractual Life in Years	Weighted Average Exercise Price	Aggregate Intrinsic Value	Number Exercisable	Weighted Average Exercise Price	Aggregate Intrinsic Value
\$ 29.60 - \$36.82	21,000	1.1	\$ 32.69		21,000	\$ 32.69	
\$ 41.24 - \$56.45	71,276	2.9	\$ 52.34		71,276	\$ 52.34	
\$ 61.89 - \$62.48	41,153	5.0	\$ 62.34		41,153	\$ 62.34	
\$ 75.17 - \$99.52	72,000	6.0	\$ 87.35		72,000	\$ 87.35	
\$ 29.60 - \$99.52	<u>205,429</u>	4.2	\$ 64.60	\$ 1,321,000	<u>205,429</u>	\$ 64.60	\$ 1,321,000

The following is a summary of the restricted stock award activity under the director plan described above for the nine months ended September 30, 2016:

	Unvested Restricted Stock Award Shares	Weighted Average Grant Date Fair Value Per Share
Nonvested balance at December 31, 2015	1,791	\$ 68.73
Granted	23,074	\$ 64.89
Vested	(2,485)	\$ 67.66
Nonvested balance at September 30, 2016	<u>22,380</u>	<u>\$ 64.89</u>

The total intrinsic value of all stock options exercised under all of the Company's plans was \$266,000 and \$2,555,000 for the nine months ended September 30, 2016 and 2015, respectively. The actual tax benefit realized for tax deductions from stock option exercises was \$100,000 and \$953,000 for the nine months ended September 30, 2016 and 2015, respectively.

The total intrinsic value of all the restricted stock vestings under all of the Company's plans was \$5,587,000 and \$9,055,000 for the nine months ended September 30, 2016 and 2015, respectively. The actual tax benefit realized for tax deductions from restricted stock vestings was \$2,095,000 and \$3,378,000 for the nine months ended September 30, 2016 and 2015, respectively.

As of September 30, 2016, there was \$4,080,000 of unrecognized compensation cost related to nonvested stock options and \$20,218,000 related to restricted stock. The stock options are expected to be recognized over a weighted average period of approximately 1.7 years and restricted stock over approximately 3.4 years. The total fair value of options vested was \$2,495,000 and \$2,194,000 during the nine months ended September 30, 2016 and 2015, respectively. The fair value of the restricted stock vested was \$5,587,000 and \$9,055,000 for the nine months ended September 30, 2016 and 2015, respectively.

The weighted average per share fair value of stock options granted during the nine months ended September 30, 2016 and 2015 was \$17.30 and \$25.18, respectively. The fair value of the stock options granted during the nine months ended September 30, 2016 and 2015 was \$3,231,000 and \$2,893,000, respectively. The Company currently uses treasury stock shares for restricted stock grants and stock option exercises. The fair value of each stock option was determined using the Black-Scholes option pricing model. The key input variables used in valuing the options during the nine months ended September 30, 2016 and 2015 were as follows:

	Nine months ended September 30,	
	2016	2015
Dividend yield	None	None
Average risk-free interest rate	1.5 %	1.3%
Stock price volatility	30%	33%
Estimated option term	Six years	Six years

(7) OTHER COMPREHENSIVE INCOME

The Company's changes in other comprehensive income for the three months and nine months ended September 30, 2016 and 2015 were as follows (in thousands):

	Three months ended September 30,					
	2016			2015		
	Gross Amount	Income Tax (Provision) Benefit	Net Amount	Gross Amount	Income Tax (Provision) Benefit	Net Amount
Pension and postretirement benefits (a):						
Amortization of net actuarial loss	\$ 1,193	\$ (455)	\$ 738	\$ 1,740	\$ (668)	\$ 1,072
Actuarial gains (losses)	(2)	(1)	(3)	2	—	2
Foreign currency translation adjustments	—	—	—	49	—	49
Total	<u>\$ 1,191</u>	<u>\$ (456)</u>	<u>\$ 735</u>	<u>\$ 1,791</u>	<u>\$ (668)</u>	<u>\$ 1,123</u>

	Nine months ended September 30,					
	2016			2015		
	Gross Amount	Income Tax (Provision) Benefit	Net Amount	Gross Amount	Income Tax (Provision) Benefit	Net Amount
Pension and postretirement benefits (a):						
Amortization of net actuarial loss	\$ 3,575	\$ (1,367)	\$ 2,208	\$ 5,226	\$ (2,000)	\$ 3,226
Actuarial gains (losses)	(6,437)	2,464	(3,973)	2,295	(881)	1,414
Foreign currency translation adjustments	—	—	—	81	—	81
Total	<u>\$ (2,862)</u>	<u>\$ 1,097</u>	<u>\$ (1,765)</u>	<u>\$ 7,602</u>	<u>\$ (2,881)</u>	<u>\$ 4,721</u>

(a) Actuarial gains (losses) are amortized into costs of sales and operating expenses or selling, general and administrative expenses as appropriate. (See Note 11 – Retirement Plans)

(8) SEGMENT DATA

The Company's operations are aggregated into two reportable business segments as follows:

Marine Transportation — Provides marine transportation principally by United States flag vessels of liquid cargoes throughout the United States inland waterway system, along all three United States coasts, in Alaska and Hawaii and, to a lesser extent, in United States coastal transportation of dry-bulk cargoes. The principal products transported include petrochemicals, black oil, refined petroleum products and agricultural chemicals.

Diesel Engine Services — Provides after-market services for medium-speed and high-speed diesel engines, reduction gears and ancillary products for marine and power generation applications, distributes and services high-speed diesel engines, transmissions and pumps, and manufactures and remanufactures oilfield service equipment, including pressure pumping units, for the land-based oilfield service and oil and gas operator and producer markets.

The Company's two reportable business segments are managed separately based on fundamental differences in their operations. The Company evaluates the performance of its segments based on the contributions to operating income of the respective segments, before income taxes, interest, gains or losses on disposition of assets, other nonoperating income, noncontrolling interests, accounting changes, and nonrecurring items. Intersegment revenues, based on market-based pricing, of the diesel engine services segment from the marine transportation segment of \$7,171,000 and \$17,722,000 for the three months and nine months ending September 30, 2016, respectively, and \$7,032,000 and \$20,322,000 for the three months and nine months ending September 30, 2015, respectively, have been eliminated from the tables below. The related intersegment profit of \$717,000 and \$1,772,000 for the three months and nine months ending September 30, 2016, respectively, and \$703,000 and \$2,032,000 for the three months and nine months ending September 30, 2015, respectively, have also been eliminated from the tables below.

The following table sets forth the Company's revenues and profit or loss by reportable segment for the three months and nine months ended September 30, 2016 and 2015 and total assets as of September 30, 2016 and December 31, 2015 (in thousands):

	Three months ended		Nine months ended	
	September 30,		September 30,	
	2016	2015	2016	2015
Revenues:				
Marine transportation	\$ 359,031	\$ 418,343	\$ 1,115,677	\$ 1,263,301
Diesel engine services	75,677	114,222	219,346	400,093
	<u>\$ 434,708</u>	<u>\$ 532,565</u>	<u>\$ 1,335,023</u>	<u>\$ 1,663,394</u>
Segment profit (loss):				
Marine transportation	\$ 55,460	\$ 93,650	\$ 197,981	\$ 286,930
Diesel engine services	4,634	5,611	1,860	19,385
Other	(8,535)	(8,638)	(24,465)	(24,718)
	<u>\$ 51,559</u>	<u>\$ 90,623</u>	<u>\$ 175,376</u>	<u>\$ 281,597</u>
Total assets:			September 30,	December 31,
Marine transportation			2016	2015
Diesel engine services			\$ 3,571,510	\$ 3,451,553
Other			592,354	637,549
			<u>59,963</u>	<u>63,179</u>
			<u>\$ 4,223,827</u>	<u>\$ 4,152,281</u>

The following table presents the details of “Other” segment loss for the three months and nine months ended September 30, 2016 and 2015 (in thousands):

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
General corporate expenses	\$ (3,786)	\$ (3,811)	\$ (11,485)	\$ (11,285)
Gain (loss) on disposition of assets	(122)	(400)	39	1,246
Interest expense	(4,507)	(4,449)	(13,213)	(14,458)
Other income (expense)	(120)	22	194	(221)
	<u>\$ (8,535)</u>	<u>\$ (8,638)</u>	<u>\$ (24,465)</u>	<u>\$ (24,718)</u>

The following table presents the details of “Other” total assets as of September 30, 2016 and December 31, 2015 (in thousands):

	September 30, 2016	December 31, 2015
General corporate assets	\$ 57,453	\$ 61,089
Investment in affiliates	2,510	2,090
	<u>\$ 59,963</u>	<u>\$ 63,179</u>

(9) TAXES ON INCOME

Earnings before taxes on income and details of the provision for taxes on income for the three months and nine months ended September 30, 2016 and 2015 were as follows (in thousands):

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
Earnings before taxes on income – United States	\$ 51,559	\$ 90,623	\$ 175,376	\$ 281,597
Provision for taxes on income:				
Federal:				
Current	\$ 1,190	\$ 24,671	\$ 14,281	\$ 75,937
Deferred	16,582	6,221	46,264	20,622
State and local	1,434	2,620	4,885	8,140
	<u>\$ 19,206</u>	<u>\$ 33,512</u>	<u>\$ 65,430</u>	<u>\$ 104,699</u>

(10) EARNINGS PER SHARE

The following table presents the components of basic and diluted earnings per share for the three months and nine months ended September 30, 2016 and 2015 (in thousands, except per share amounts):

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
Net earnings attributable to Kirby	\$ 32,010	\$ 56,843	\$ 109,051	\$ 175,996
Undistributed earnings allocated to restricted shares	(239)	(347)	(766)	(1,044)
Income available to Kirby common stockholders - basic	31,771	56,496	108,285	174,952
Undistributed earnings allocated to restricted shares	239	347	766	1,044
Undistributed earnings reallocated to restricted shares	(238)	(347)	(765)	(1,042)
Income available to Kirby common stockholders - diluted	<u>\$ 31,772</u>	<u>\$ 56,496</u>	<u>\$ 108,286</u>	<u>\$ 174,954</u>
Shares outstanding:				
Weighted average common stock issued and outstanding	53,856	54,721	53,827	55,414
Weighted average unvested restricted stock	(401)	(335)	(378)	(329)
Weighted average common stock outstanding - basic	53,455	54,386	53,449	55,085
Dilutive effect of stock options	46	86	54	108
Weighted average common stock outstanding - diluted	<u>53,501</u>	<u>54,472</u>	<u>53,503</u>	<u>55,193</u>
Net earnings per share attributable to Kirby common stockholders:				
Basic	<u>\$ 0.59</u>	<u>\$ 1.04</u>	<u>\$ 2.03</u>	<u>\$ 3.18</u>
Diluted	<u>\$ 0.59</u>	<u>\$ 1.04</u>	<u>\$ 2.02</u>	<u>\$ 3.17</u>

Certain outstanding options to purchase approximately 520,000 and 227,000 shares of common stock were excluded in the computation of diluted earnings per share as of September 30, 2016 and 2015, respectively, as such stock options would have been antidilutive.

(11) RETIREMENT PLANS

The Company sponsors a defined benefit plan for its inland vessel personnel and shore based tankermen. The plan benefits are based on an employee's years of service and compensation. The plan assets consist primarily of equity and fixed income securities.

The Company's pension plan funding strategy has historically been to contribute an amount equal to the greater of the minimum required contribution under ERISA or the amount necessary to fully fund the plan on an accumulated benefit obligation ("ABO") basis at the end of the fiscal year. The ABO is based on a variety of demographic and economic assumptions, and the pension plan assets' returns are subject to various risks, including market and interest rate risk, making an accurate prediction of the pension plan contribution difficult. Based on current pension plan assets and market conditions, the Company expects to make a contribution of up to \$25,000,000 to its pension plan prior to December 31, 2016 to fund its 2016 pension plan obligations. As of September 30, 2016, no 2016 year contributions have been made.

The Company sponsors an unfunded defined benefit health care plan that provides limited postretirement medical benefits to employees who meet minimum age and service requirements, and to eligible dependents. The plan limits cost increases in the Company's contribution to 4% per year. The plan is contributory, with retiree contributions adjusted annually. The plan eliminated coverage for future retirees as of December 31, 2011. The Company also has an unfunded defined benefit supplemental executive retirement plan ("SERP") that was assumed in an acquisition in 1999. That plan ceased to accrue additional benefits effective January 1, 2000.

The components of net periodic benefit cost for the Company's defined benefit plans for the three months and nine months ended September 30, 2016 and 2015 were as follows (in thousands):

	Pension Benefits			
	Pension Plan		SERP	
	Three months ended September 30,		Three months ended September 30,	
	2016	2015	2016	2015
Components of net periodic benefit cost:				
Service cost	\$ 3,351	\$ 3,673	\$ —	\$ —
Interest cost	3,531	3,327	16	16
Expected return on plan assets	(4,202)	(4,481)	—	—
Amortization of actuarial loss	1,372	1,932	7	7
Net periodic benefit cost	<u>\$ 4,052</u>	<u>\$ 4,451</u>	<u>\$ 23</u>	<u>\$ 23</u>

	Pension Benefits			
	Pension Plan		SERP	
	Nine months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
Components of net periodic benefit cost:				
Service cost	\$ 10,053	\$ 11,020	\$ —	\$ —
Interest cost	10,594	9,983	49	48
Expected return on plan assets	(12,606)	(13,449)	—	—
Amortization of actuarial loss	4,115	5,799	20	21
Net periodic benefit cost	<u>\$ 12,156</u>	<u>\$ 13,353</u>	<u>\$ 69</u>	<u>\$ 69</u>

The components of net periodic benefit cost for the Company's postretirement benefit plan for the three months and nine months ended September 30, 2016 and 2015 were as follows (in thousands):

	Other Postretirement Benefits		Other Postretirement Benefits	
	Postretirement Welfare Plan		Postretirement Welfare Plan	
	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
Components of net periodic benefit cost:				
Service cost	\$ —	\$ —	\$ —	\$ —
Interest cost	7	9	22	27
Amortization of actuarial gain	(186)	(199)	(560)	(594)
Net periodic benefit cost	<u>\$ (179)</u>	<u>\$ (190)</u>	<u>\$ (538)</u>	<u>\$ (567)</u>

(12) CONTINGENCIES

On October 13, 2016, the tug Nathan E. Stewart and barge DBL 55, an articulated tank barge and tugboat unit, ran aground at the entrance to Seaforth Channel on Atholone Island, British Columbia. The grounding resulted in a breach of a portion of the Nathan E. Stewart's fuel tanks causing a discharge of diesel fuel into the water. The Company has undertaken its responsibilities to salvage and cleanup. The United States Coast Guard ("USCG") and the National Transportation Safety Board ("NTSB") designated the Company as a party of interest in their investigation as to the cause of the incident. The Canadian authorities including Transport Canada and the Canadian Transportation Safety Board are also investigating the cause of the incident. The Company has various insurance policies covering liabilities including pollution, property, marine and general liability. The Company believes that it has satisfactory insurance coverage for the cost of cleanup and salvage operations as well as other potential liabilities arising from the incident.

On March 22, 2014, two tank barges and a towboat (the M/V Miss Susan), owned by Kirby Inland Marine, LP, a wholly owned subsidiary of the Company, were involved in a collision with the M/S Summer Wind on the Houston Ship Channel near Texas City, Texas. The lead tank barge was damaged in the collision resulting in a discharge of intermediate fuel oil from one of its cargo tanks. The USCG and the NTSB named the Company and the Captain of the M/V Miss Susan, as well as the owner and the pilot of the M/S Summer Wind, as parties of interest in their investigation as to the cause of the incident. Sea Galaxy Ltd is the owner of the M/S Summer Wind. The Company is participating in the natural resource damage assessment and restoration process with federal and state government natural resource trustees.

The Company and the owner of the M/S Summer Wind filed actions in the U.S. District Court for the Southern District of Texas seeking exoneration from or limitation of liability relating to the foregoing incident as provided for in the federal rules of procedure for maritime claims. The two actions were consolidated for procedural purposes since they both arise out of the same occurrence. Multiple parties filed claims in limitation seeking various damages under the Oil Pollution Act of 1990 ("OPA"), including claims for business interruption, loss of profit and loss of use of natural resources (OPA claimants). On November 2, 2016, the Company, the M/S Summer Wind and its owners and the OPA claimants entered into a settlement agreement pursuant to which the parties have resolved their respective claims against one another. The Company has adequate insurance for its share of the settlement payment.

The Company has also been named as a defendant in a civil action by two crewmembers of the M/V Miss Susan, alleging damages under the general maritime law and the Jones Act. The Company is processing claims that have not been filed in the limitation matter that are properly presented, documented and recoverable under OPA.

On September 13, 2016, the Company entered into a Consent Decree with the Department of Justice (“DOJ”) to settle civil penalty provisions under Section 311(b) of the Clean Water Act involving the discharge of intermediate fuel oil as a result of the collision between the tank barge and the M/S Summer Wind. Under the Consent Decree, the Company agreed to pay a civil penalty of \$4,900,000 and undertake certain actions relating to navigation procedures. On September 27, 2016, the DOJ filed the proposed Consent Decree with the U.S. District Court for the Southern District of Texas along with an Original Complaint setting out the allegations that the Company is civilly liable for violation of Section 311(b) of the Clean Water Act. The proposed Consent Decree will become final after a thirty day comment period and judicial approval. The Company believes it has adequate insurance coverage for pollution, marine and other potential liabilities arising from the incident. The Company believes it has accrued adequate reserves for the incident and does not expect the incident to have a material adverse effect on its business or financial condition.

The Company is also involved in various legal and other proceedings which are incidental to the conduct of its business, none of which in the opinion of management will have a material effect on the Company’s business or financial condition. Management believes that it has recorded adequate reserves and believes that it has adequate insurance coverage or has meritorious defenses for these other claims and contingencies.

The Company has issued guaranties or obtained standby letters of credit and performance bonds supporting performance by the Company and its subsidiaries of contractual or contingent legal obligations of the Company and its subsidiaries incurred in the ordinary course of business. The aggregate notional value of these instruments is \$14,162,000 at September 30, 2016, including \$4,057,000 in letters of credit and \$10,105,000 in performance bonds. All of these instruments have an expiration date within four years. The Company does not believe demand for payment under these instruments is likely and expects no material cash outlays to occur in connection with these instruments.

(13) SUBSEQUENT EVENT

On October 11, 2016, the Company purchased certain assets of Valley Power Systems, Inc. and Valley Power Systems Northwest, Inc. (collectively “VPS”) for \$11,440,000 in cash. The assets purchased are mainly related to the Electro-Motive Diesel (“EMD”) engine supply and repair business of VPS and include an EMD distributor agreement to sell engines in nine western states. The Company has not completed the final purchase price allocation at this time.

Item 1A. Risk Factors

The Company continues to be subject to the risk factors previously disclosed in its “Risk Factors” in the Company’s Annual Report on Form 10-K for the year ended December 31, 2015.

Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations

Statements contained in this Form 10-Q that are not historical facts, including, but not limited to, any projections contained herein, are forward-looking statements and involve a number of risks and uncertainties. Such statements can be identified by the use of forward-looking terminology such as “may,” “will,” “expect,” “anticipate,” “estimate” or “continue,” or the negative thereof or other variations thereon or comparable terminology. The actual results of the future events described in such forward-looking statements in this Form 10-Q could differ materially from those stated in such forward-looking statements. Among the factors that could cause actual results to differ materially are: adverse economic conditions, industry competition and other competitive factors, adverse weather conditions such as high water, low water, tropical storms, hurricanes, tsunamis, fog and ice, tornadoes, marine accidents, lock delays, fuel costs, interest rates, construction of new equipment by competitors, government and environmental laws and regulations, and the timing, magnitude and number of acquisitions made by the Company. For a more detailed discussion of factors that could cause actual results to differ from those presented in forward-looking statements, see Item 1A-Risk Factors found in the Company’s Annual Report on Form 10-K for the year ended December 31, 2015. Forward-looking statements are based on currently available information and the Company assumes no obligation to update any such statements.

For purposes of the Management's Discussion, all net earnings per share attributable to Kirby common stockholders are "diluted earnings per share." The weighted average number of common shares applicable to diluted earnings per share for the three months and nine months ended September 30, 2016 and 2015 were as follows (in thousands):

	Three months ended September 30,		Nine months ended September 30,	
	2016	2015	2016	2015
Weighted average number of common stock - diluted	53,501	54,472	53,503	55,193

The decrease in the weighted average number of common shares for the 2016 third quarter and first nine months compared with the 2015 third quarter and first nine months primarily reflected common stock repurchases in the 2015 first quarter through the 2016 first quarter, partially offset by the issuance of restricted stock and the exercise of stock options.

Overview

The Company is the nation's largest domestic tank barge operator, transporting bulk liquid products throughout the Mississippi River System, on the Gulf Intracoastal Waterway, coastwise along all three United States coasts and in Alaska and Hawaii. The Company transports petrochemicals, black oil, refined petroleum products and agricultural chemicals by tank barge. As of September 30, 2016, the Company operated a fleet of 881 inland tank barges with 17.9 million barrels of capacity, and operated an average of 227 inland towboats during the 2016 third quarter. The Company's coastal fleet consisted of 68 tank barges with 6.0 million barrels of capacity and 80 coastal tugboats. The Company also operates six offshore dry-bulk barge and tugboat units transporting dry-bulk commodities in United States coastal trade. Through its diesel engine services segment, the Company provides after-market services for medium-speed and high-speed diesel engines, reduction gears and ancillary products for marine and power generation applications, distributes and services high-speed diesel engines, transmissions and pumps, and manufactures and remanufactures oilfield service equipment, including pressure pumping units, for the land-based oilfield service and oil and gas operator and producer markets.

For the 2016 third quarter, net earnings attributable to Kirby were \$32,010,000, or \$0.59 per share, on revenues of \$434,708,000, compared with 2015 third quarter net earnings attributable to Kirby of \$56,843,000, or \$1.04 per share, on revenues of \$532,565,000. For the 2016 first nine months, net earnings attributable to Kirby were \$109,051,000, or \$2.02 per share, on revenues of \$1,335,023,000, compared with 2015 first nine months net earnings attributable to Kirby of \$175,996,000, or \$3.17 per share, on revenues of \$1,663,394,000. The 2016 first quarter and first nine months results included \$5,605,000 before taxes, or \$0.06 per share, of severance charges. The severance charges were a result of a reduction in force across the marine transportation and diesel engine services businesses and corporate staff in order to reduce costs in light of challenging market conditions. The 2015 first quarter, third quarter and first nine months included \$1,225,000, \$702,000 and \$1,927,000, respectively, of severance charges which were mainly reflected in the diesel engine services results. Also, the 2015 first quarter and first nine months results included a gain of \$1,621,000 before taxes, or \$0.02 per share, on the sale of the assets of a small product line in the diesel engine services segment.

Marine Transportation

For the 2016 third quarter and first nine months, the Company's marine transportation segment generated 83% and 84%, respectively, of the Company's revenues. The segment's customers include many of the major petrochemical and refining companies that operate in the United States. Products transported include intermediate materials used to produce many of the end products used widely by businesses and consumers — plastics, fiber, paints, detergents, oil additives and paper, among others, as well as residual fuel oil, ship bunkers, asphalt, gasoline, diesel fuel, heating oil, crude oil, natural gas condensate and agricultural chemicals. Consequently, the Company's marine transportation business generally mirrors the volumes produced by the Company's petroleum, petrochemical and refining customer base.

The Company's marine transportation segment's revenues for the 2016 third quarter and first nine months decreased 14% and 12%, respectively, compared with the 2015 third quarter and first nine months. The decreases were primarily due to lower inland marine transportation term and spot contract pricing, lower inland and coastal equipment utilization, a decline in the average cost of marine diesel fuel which is largely passed through to the customer, and an increase in the number of coastal vessels operating in the spot market which led to increased idle time and decreased revenues, partially offset by the addition of the Seacor tank barges acquired in April 2016. The segment's operating income for the 2016 third quarter and first nine months decreased 41% and 31%, respectively, compared with the 2015 third quarter and first nine months. The decreases were primarily due to lower inland and coastal equipment utilization, lower inland term and spot contract pricing, increased idle time and voyage costs for coastal vessels and higher depreciation expense, partially offset by savings from a reduction in force earlier in the year and during 2015, and a reduction in the average number of towboats operated. The 2016 first nine months marine transportation results also included \$3,792,000 of severance charges in the 2016 first quarter. For the 2016 and 2015 third quarters, the inland tank barge fleet contributed 66% and 68%, respectively, and the coastal fleet contributed 34% and 32%, respectively, of marine transportation revenues. For the 2016 and 2015 first nine months, the inland tank barge fleet contributed 67% and 68%, respectively, and the coastal fleet contributed 33% and 32%, respectively, of marine transportation revenues.

The tank barge utilization levels of the Company's inland marine transportation markets declined in the 2016 third quarter to the low-to-mid 80% range compared to the high 80% to low 90% range for the 2016 second quarter and the 90% to 95% range for the 2016 first quarter and the 2015 third quarter and first nine months. The decline in utilization from the 2016 first quarter to 2016 second quarter was largely attributable to a shortened spring season for agricultural chemical products and soft demand for transportation of refined petroleum products which was largely related to high inventory levels. The decline in utilization from the 2016 second quarter to the 2016 third quarter was mainly due to high refined petroleum product inventory levels, as well as overall softer utilization levels that are common in mid-summer as operating conditions improve. Demand for barges moving black oil was weaker during the 2016 third quarter compared to demand during the 2016 second quarter and the 2015 third quarter. Demand for petrochemicals in the 2016 third quarter was stable, aside from the negative impact of plant maintenance turnarounds, with favorable demand for certain upriver petrochemical movements. Seasonal demand for agricultural chemicals was strong. In addition, demand for refined petroleum product and black oil movements temporarily increased following a series of customer supply chain disruptions late in the 2016 third quarter. During the 2016 third quarter, operating conditions were seasonally normal, although there was significant flooding in Louisiana that caused some disruptions in the Gulf Intracoastal Waterway for a short period.

Coastal tank barge utilization levels declined slightly to the low-to-mid 80% range during the 2016 third quarter compared to the mid 80% level during the 2016 second quarter and the high 80% to low 90% range in the 2016 first quarter and compared to utilization levels of 90% to 95% in the 2015 third quarter and first nine months. The Company's coastal marine transportation markets reflected stable demand for the transportation of black oil, petrochemicals and dry products in the 2016 third quarter and first nine months. Demand for the transportation of refined petroleum products declined, primarily as a result of weak distillate and gasoline demand in the Northeast.

During the 2016 and 2015 third quarters and first nine months, approximately 80% of inland marine transportation revenues were under term contracts and 20% were spot contract revenues. Inland time charters during the 2016 third quarter and first nine months represented 52% and 53%, respectively, of the revenues under term contracts compared with 55% and 56% in the 2015 third quarter and first nine months, respectively.

During the 2016 third quarter and first nine months, approximately 80% of coastal marine transportation revenues were under term contracts and 20% were spot contract revenues. For the 2015 third quarter and first nine months, approximately 80% and 85%, respectively, of marine transportation's coastal revenues were under term contracts and approximately 20% and 15%, respectively, were under spot contracts. The 2016 first nine months decrease in term contract revenues reflected the continued trend of non-renewal of certain term contracts which put increased equipment in the spot contract market. However, the coastal revenues reflected the new 185,000 barrel articulated tank barge and tugboat unit ("ATB") placed in service in the 2015 fourth quarter under a long-term contract. The second new 185,000 barrel ATB was placed in service in June 2016, also under a long-term contract. Coastal time charters represented approximately 90% of the revenues under term contracts during the 2016 and 2015 third quarters and first nine months.

Rates on inland term contracts renewed in the 2016 third quarter and first nine months decreased in the 5% to 9% average range compared with term contracts renewed in the 2015 third quarter and first nine months. Spot contract rates, which include the cost of fuel, were relatively flat in the 2016 first quarter when compared with the 2015 fourth quarter and at or below term contract pricing during the 2016 second and third quarters. Effective January 1, 2016, annual escalators for labor and the producer price index on a number of inland multi-year contracts resulted in rate increases on those contracts of approximately 1.5%, excluding fuel.

Rates on coastal term contracts renewed in the 2016 third quarter and first nine months were essentially flat when compared with term contracts renewed in the 2015 third quarter and first nine months. Spot contract rates remained above term contract rates during the 2016 first quarter, fluctuated around term contract rates during the 2016 second quarter and fell below term contract rates during the 2016 third quarter.

The marine transportation operating margin was 15.4% for the 2016 third quarter compared with 22.4% for the 2015 third quarter and 17.7% for the 2016 first nine months compared with 22.7% for the 2015 first nine months.

Diesel Engine Services

For the 2016 third quarter and first nine months, the diesel engine services segment generated 17% and 16%, respectively, of the Company's revenues. For the 2016 third quarter and first nine months, 60% and 63% of the diesel engine services segment revenues were generated from overhauls and service and 40% and 37% from direct parts sales, respectively. The results of the diesel engine services segment are largely influenced by the economic cycles of the marine and power generation markets and the land-based oilfield service and oil and gas operator and producer markets.

Diesel engine services revenues for the 2016 third quarter and first nine months decreased 34% and 45%, respectively, and operating income decreased 17% and 90%, respectively, when compared with the third quarter and first nine months of 2015. The lower revenues in the 2016 third quarter and first nine months compared to the 2015 third quarter and first nine months were primarily attributable to the lack of demand for the manufacture of pressure pumping units and other oilfield service equipment and for the sale and distribution of engines, transmissions and parts due to the impact of the decline in the price of crude oil and decreased drilling activity. The 2016 third quarter saw an increase in activity for the remanufacturing and servicing of pressure pumping units. The marine diesel engine services market remained at depressed levels, primarily due to continued weakness in the Gulf of Mexico oilfield services market. In addition, customers continued to defer major maintenance projects in many regions of the marine diesel engine services market largely due to the weaker barge market and, to a lesser extent, the general economy. However, during the 2016 third quarter, the Midwest marine markets reflected an improvement. The power generation market was relatively strong during the 2016 third quarter and first nine months, benefiting from major generator set upgrades and parts sales for both domestic and international power generation customers. The diesel engine services results for the 2016 and 2015 first quarters included \$1,436,000 and \$1,111,000, respectively, of severance charges in response to the reduced activity in both the marine and land-based markets.

The diesel engine services operating margin for the 2016 third quarter was 6.1% compared with 4.9% for the 2015 third quarter. For the 2016 first nine months, the operating margin was 0.8% compared with 4.8% for the first nine months of 2015.

Cash Flow and Capital Expenditures

The Company continued to generate strong operating cash flow during the 2016 first nine months, with net cash provided by operating activities of \$336,493,000 compared with \$377,469,000 of net cash provided by operating activities for the 2015 first nine months. The 11% decrease was primarily from a \$66,952,000 decrease in net earnings and a \$2,950,000 decrease in the amortization of major maintenance costs, partially offset by a \$26,542,000 increase in the provision for deferred income taxes and a \$6,077,000 increase in depreciation and amortization expense. In addition, during the 2016 and 2015 first nine months, the Company generated cash of \$321,000 and \$3,712,000, respectively, of proceeds from the exercise of stock options and \$15,136,000 and \$13,102,000, respectively, of proceeds from the disposition of assets.

For the 2016 first nine months, cash generated and borrowings under the Company's revolving credit facility were used for capital expenditures of \$169,305,000, including \$5,640,000 for inland tank barge and towboat construction, \$14,631,000 in final costs for the construction of two 185,000 barrel coastal ATBs, one placed in service in late 2015 and the second in June 2016, \$56,318,000 for progress payments on the construction of two 155,000 barrel coastal ATBs, one scheduled to be placed in service in the fourth quarter of 2016 and one in the 2017 first half, \$4,847,000 for progress payments on the construction of two 4900 horsepower coastal tugboats, \$2,504,000 for progress payments on the construction of a 35,000 barrel coastal petrochemical tank barge scheduled to be placed in service in early 2017 and \$85,365,000 primarily for upgrading existing marine equipment, and marine transportation and diesel engine services facilities. The Company's debt-to-capitalization ratio decreased to 23.3% at September 30, 2016 compared 25.4% at December 31, 2015. As of September 30, 2016, the Company had \$229,387,000 outstanding under its revolving credit facility and \$500,000,000 of senior notes outstanding, offset by \$3,385,000 in unamortized debt issuance costs.

During the 2016 first nine months, the Company took delivery of three new inland tank barges with a total capacity of approximately 83,000 barrels, acquired 27 inland tank barges from Seacor with a total capacity of approximately 807,000 barrels, transferred one tank barge into the inland fleet from the coastal fleet with a capacity of 31,000 barrels, returned four leased inland tank barges and retired 44 inland tank barges, reducing its capacity by approximately 942,000 barrels. The net result was a reduction of 17 inland tank barges and approximately 21,000 barrels of capacity during the first nine months of 2016.

The Company projects that capital expenditures for 2016 will be in the \$230,000,000 to \$250,000,000 range. The 2016 construction program will consist of seven inland tank barges with a total capacity of 197,000 barrels, three of which were completed in the 2016 first quarter, two of which are scheduled to be completed in the 2016 fourth quarter and two in early 2017, progress payments on the construction of two 185,000 barrel coastal ATBs, one of which was placed in service in late 2015 and the second in June 2016, progress payments on the construction of two 155,000 barrel coastal ATBs, one scheduled to be placed in service in the 2016 fourth quarter and one in the 2017 first half, and progress payments on the construction of two 4900 horsepower coastal tugboats and a 35,000 barrel coastal petrochemical tank barge. Based on current commitments, steel prices and projected delivery schedules, the Company's 2016 payments on new inland tank barges will be approximately \$10,000,000, 2016 progress payments on the construction of two 185,000 barrel coastal ATBs and two 155,000 barrel coastal ATBs will be approximately \$85,000,000 and 2016 progress payments on the construction of the two 4900 horsepower coastal tugboats and the 35,000 barrel coastal petrochemical tank barge will be approximately \$15,000,000. The balance of approximately \$120,000,000 to \$140,000,000 is primarily capital upgrades and improvements to existing marine equipment, and marine transportation and diesel engine services facilities.

Outlook

Reduced crude oil volumes to be moved by tank barge due to additional pipelines coupled with the large number of tank barges built during the last several years, many of which were for the movement of crude oil and natural gas condensate, has resulted in excess industry-wide tank barge capacity and lower equipment utilization for both the inland and coastal marine transportation markets. This extra capacity has placed inland tank barge rates under some pressure. The Company's inland term contract rates that renewed in the 2016 third quarter and first nine months decreased in the 5% to 9% average range compared with term contract rates renewed in the 2015 third quarter and first nine months. Spot contract rates, which include the cost of fuel, were relatively flat in the 2016 first quarter when compared with the 2015 fourth quarter and were at or below term contract rates for the 2016 second and third quarters. As a result, the Company remains cautious with regard to 2016 fourth quarter pricing expectations for the inland marine transportation markets and expects continued modest pricing pressure with utilization in the low-to-mid 80% range. Future tank barge demand for petrochemical and refined petroleum products volumes from increased production from current facilities, plant expansions or the reopening of idled facilities could offset possible further declines in crude oil and natural gas condensate transportation movements.

In the coastal marine transportation market, a decline in crude oil and natural gas condensate transportation volumes has increased available capacity and has resulted in some reluctance among certain customers to extend term contracts which has led to an increase in the number of coastal vessels operating in the spot market. In addition, the Company and the industry have added new coastal tank barge capacity during 2015 and the 2016 first nine months, with additional new capacity coming on-line in 2017 and 2018. While much of this new capacity is replacement capacity for older vessels anticipated to be retired, the Company maintains a cautious outlook as the industry absorbs the new capacity. For the 2016 fourth quarter, the Company expects tank barge utilization for the coastal markets to remain in the low-to-mid 80% range.

As of September 30, 2016, the Company estimated there were approximately 3,900 inland tank barges in the industry fleet, of which approximately 600 were over 30 years old and approximately 250 of those over 40 years old. Given the age profile of the industry inland tank barge fleet and current market conditions, the expectation is that many older tank barges will be removed from service during 2016. The Company estimates approximately 100 tank barges were ordered during 2015 and 2016 for delivery throughout 2016, of which five were for the Company, significantly less than the 260 new inland tank barges placed in service during 2015, 36 of which were for the Company. Historically, 75 to 150 older inland tank barges are retired from service each year industry-wide, with the extent of the retirements dependent on petrochemical and refinery production levels, and crude oil and natural gas condensate movements, both of which can have a direct effect on industry-wide tank barge utilization, as well as term and spot contract rates.

As of September 30, 2016, the Company estimated there were approximately 290 tank barges operating in the 195,000 barrel or less coastal industry fleet, the sector of the market in which the Company operates, and approximately 35 of those were over 30 years old. In 2014 and 2015, the Company placed orders for the construction of two 185,000 barrel coastal ATBs, one of which was placed in service in late 2015 and the second in June 2016, two 155,000 barrel coastal ATBs, one scheduled to be placed in service in the 2016 fourth quarter and one in the 2017 first half, one 35,000 barrel coastal petrochemical tank barge scheduled to be placed in service in early 2017 and two 4900 horsepower coastal tugboats. The Company is also aware of 19 announced coastal tank barge and tugboat units in the 195,000 barrel or less category under construction by competitors, of which eight were delivered in the first nine months of 2016 and the remaining 11 are for delivery in 2017 and 2018.

In the diesel engine services segment, with the current crude oil environment and corresponding announced capital spending reductions by oilfield service companies and oil and gas operators and producers, inbound orders during the 2016 first nine months for the manufacturing of pressure pumping units and other oilfield service equipment have essentially stopped. However, the 2016 third quarter saw an increase in activity for the remanufacturing and servicing of pressure pumping units. The distribution portion of the land-based market, including engine, transmission and parts sales and service, remains at weaker levels. The Company took aggressive measures in 2015 and the 2016 first quarter to reduce costs, including reducing the staffing level in the land-based manufacturing area. The Company anticipates its land-based market to remain challenging for the 2016 fourth quarter as a more meaningful recovery in the land-based market is not likely until 2017, when customer inventories for parts, transmissions and engines are depleted and oilfield service activity accelerates, which may necessitate new orders for products, parts and service.

For the marine diesel engine services market, the Company anticipates continued weakness in the Gulf of Mexico oilfield services market. For the power generation market and other marine markets in the 2016 fourth quarter, the Company anticipates a normal fourth quarter seasonal decline.

Acquisitions

On April 15, 2016, the Company purchased the inland tank barge fleet of Seacor from subsidiaries of Seacor for a total value of \$91,681,000. The assets purchased consisted of 27 inland 30,000 barrel tank barges and 13 inland towboats, as well as one 30,000 barrel inland tank barge and one towboat under construction. The purchase price was comprised of a \$79,200,000 cash payment on April 15, 2016 and holdbacks of \$7,000,000 for new construction and \$1,800,000 for inland tank barge maintenance and repairs and the Company transferred ownership to Seacor of a Florida-based ship docking tugboat with a value of \$3,681,000. The \$1,800,000 holdback for maintenance and repairs was paid in May 2016 and \$4,500,000 of the \$7,000,000 holdback for new construction was paid in July 2016 with the remaining \$2,500,000 expected to be paid by December 31, 2016. The average age of the 27 inland tank barges was ten years. Seacor, through its subsidiary, SCF Waxler Marine LLC, transported refined petroleum products, petrochemicals and black oil on the Mississippi River System and the Gulf Intracoastal Waterway. Financing of the acquisition was through borrowings under the Company's revolving credit facility.

On June 2, 2016, the Company purchased four coastal tugboats from Crosby Marine for \$26,450,000 in cash. The four coastal tugboats have an average age of 13 years. Financing of the equipment acquisition was through borrowings under the Company's revolving credit facility.

On June 30, 2016, the Company purchased an 80,000 barrel coastal tank barge from TD Equipment for \$13,682,000 in cash. The Company had been leasing the barge from TD Equipment prior to its purchase. Financing of the equipment acquisition was through borrowings under the Company's revolving credit facility.

On October 11, 2016, the Company purchased certain assets of VPS for \$11,440,000 in cash. The assets purchased are mainly related to the EMD engine supply and repair business of VPS and include an EMD distributor agreement to sell engines in nine western states. Financing of the acquisition was through borrowings under the Company's revolving credit facility.

Results of Operations

The Company reported 2016 third quarter net earnings attributable to Kirby of \$32,010,000, or \$0.59 per share, on revenues of \$434,708,000, compared with 2015 third quarter net earnings attributable to Kirby of \$56,843,000, or \$1.04 per share, on revenues of \$532,565,000. Net earnings attributable to Kirby for the 2016 first nine months were \$109,051,000, or \$2.02 per share, on revenues of \$1,335,023,000, compared with \$175,996,000, or \$3.17 per share, on revenues of \$1,663,394,000 for the 2015 first nine months. The 2016 first quarter and first nine months results included \$5,605,000 before taxes, or \$.06 per share, of severance charges which were reflected in the marine transportation and diesel engine businesses and corporate staff in order to reduce costs in light of challenging market conditions. The 2015 first quarter, third quarter and first nine months included \$1,225,000, \$702,000 and \$1,927,000, respectively, of severance charges which were mainly reflected in the diesel engine services results. Also, the 2015 first quarter and first nine months results included a gain of \$1,621,000 before taxes, or \$.02 per share, on the sale of the assets of a small product line in the diesel engine services segment.

The following table sets forth the Company's marine transportation and diesel engine services revenues for the 2016 third quarter compared with the third quarter of 2015, the first nine months of 2016 compared with the first nine months of 2015 and the percentage of each to total revenues for the comparable periods (dollars in thousands):

	Three months ended September 30,				Nine months ended September 30,			
	2016	%	2015	%	2016	%	2015	%
Marine transportation	\$ 359,031	83%	\$ 418,343	79%	\$ 1,115,677	84%	\$ 1,263,301	76%
Diesel engine services	75,677	17	114,222	21	219,346	16	400,093	24
	<u>\$ 434,708</u>	<u>100%</u>	<u>\$ 532,565</u>	<u>100%</u>	<u>\$ 1,335,023</u>	<u>100%</u>	<u>\$ 1,663,394</u>	<u>100%</u>

Marine Transportation

The Company, through its marine transportation segment, is a provider of marine transportation services, operating tank barges and towing vessels transporting bulk liquid products throughout the Mississippi River System, on the Gulf Intracoastal Waterway, coastwise along all three United States coasts and in Alaska and Hawaii. The Company transports petrochemicals, black oil, refined petroleum products and agricultural chemicals by tank barge. As of September 30, 2016, the Company operated 881 inland tank barges, including 35 leased barges, with a total capacity of 17.9 million barrels. This compares with 899 inland tank barges operated as of September 30, 2015, including 31 leased barges, with a total capacity of 17.9 million barrels. The Company operated an average of 227 inland towboats during the 2016 third quarter, of which an average of 69 were chartered, compared with 246 during the 2015 third quarter, of which an average of 76 were chartered. The Company's coastal tank barge fleet as of September 30, 2016 consisted of 68 tank barges, seven of which were leased, with 6.0 million barrels of capacity, and 80 tugboats, six of which were chartered. This compares with 69 coastal tank barges operated as of September 30, 2015, eight of which were leased, with 5.9 million barrels of capacity, and 73 tugboats, six of which were chartered. As of September 30, 2016 and 2015, the Company operated six offshore dry-bulk barge and tugboat units engaged in the offshore transportation of dry-bulk cargoes. The Company also owns a two-thirds interest in Osprey Line, L.L.C., which transports project cargoes and cargo containers by barge, as well as a 51% interest in a shifting operation and fleet facility for dry cargo barges and tank barges on the Houston Ship Channel.

The following table sets forth the Company's marine transportation segment's revenues, costs and expenses, operating income and operating margins for the three months and nine months ended September 30, 2016 compared with the three months and nine months ended September 30, 2015 (dollars in thousands):

	Three months ended September 30,			Nine months ended September 30,		
	2016	2015	% Change	2016	2015	% Change
Marine transportation revenues	\$ 359,031	\$ 418,343	(14)%	\$ 1,115,677	\$ 1,263,301	(12)%
Costs and expenses:						
Costs of sales and operating expenses	226,543	245,910	(8)	681,887	746,778	(9)
Selling, general and administrative	26,089	28,264	(8)	85,386	85,657	—
Taxes, other than on income	4,880	4,846	1	14,671	13,793	6
Depreciation and amortization	46,059	45,673	1	135,752	130,143	4
	<u>303,571</u>	<u>324,693</u>	<u>(7)</u>	<u>917,696</u>	<u>976,371</u>	<u>(6)</u>
Operating income	<u>\$ 55,460</u>	<u>\$ 93,650</u>	<u>(41)%</u>	<u>\$ 197,981</u>	<u>\$ 286,930</u>	<u>(31)%</u>
Operating margins	<u>15.4%</u>	<u>22.4%</u>		<u>17.7%</u>	<u>22.7%</u>	

Marine Transportation Revenues

The following table shows the marine transportation markets serviced by the Company, the marine transportation revenue distribution for the 2016 third quarter and first nine months, products moved and the drivers of the demand for the products the Company transports:

Markets Served	2016 Third Quarter Revenue Distribution	2016 Nine Months Revenue Distribution	Products Moved	Drivers
Petrochemicals	49%	49%	Benzene, Styrene, Methanol, Acrylonitrile, Xylene, Naphtha, Caustic Soda, Butadiene, Propylene	Consumer non-durables – 70%, Consumer durables – 30%
Black Oil	25%	25%	Residual Fuel Oil, Coker Feedstock, Vacuum Gas Oil, Asphalt, Carbon Black Feedstock, Crude Oil, Ship Bunkers	Fuel for Power Plants and Ships, Feedstock for Refineries, Road Construction
Refined Petroleum Products	23%	23%	Gasoline, No. 2 Oil, Jet Fuel, Heating Oil, Diesel Fuel, Ethanol	Vehicle Usage, Air Travel, Weather Conditions, Refinery Utilization
Agricultural Chemicals	3%	3%	Anhydrous Ammonia, Nitrogen – Based Liquid Fertilizer, Industrial Ammonia	Corn, Cotton and Wheat Production, Chemical Feedstock Usage

Marine transportation revenues for the 2016 third quarter and first nine months decreased 14% and 12%, respectively, compared with the 2015 third quarter and first nine months, primarily due to lower inland marine transportation term and spot contract pricing, lower inland and coastal equipment utilization, a decline in the average cost of marine diesel fuel for the 2016 third quarter and first nine months of 17% and 30%, respectively, which is largely passed through to the customer, and an increase in the number of coastal vessels operating in the spot market which led to increased idle time and decreased revenues, partially offset by the addition of the Seacor tank barges acquired in April 2016. For the 2016 and 2015 third quarters, the inland tank barge fleet contributed 66% and 68%, respectively, and the coastal fleet contributed 34% and 32%, respectively, of marine transportation revenues. For the 2016 and 2015 first nine months, the inland tank barge fleet contributed 67% and 68%, respectively, and the coastal fleet contributed 33% and 32%, respectively, of marine transportation revenues. The Company's inland marine transportation fleet tank barge utilization levels declined in the 2016 third quarter to the low-to-mid 80% range compared to the high 80% to low 90% range for the 2016 second quarter and the 90% to 95% range for the 2016 first quarter and the 2015 third quarter and first nine months. The decline in utilization from the 2016 first quarter to 2016 second quarter was largely attributable to a shortened spring season for agricultural chemical products and soft demand for transportation of refined petroleum products, which was largely related to high inventory levels. The decline in utilization from the 2016 second quarter to the 2016 third quarter was mainly due to high refined petroleum product inventory levels, as well as overall softer utilization levels that are common in mid-summer as operating conditions improve. The utilization levels for the coastal marine transportation markets declined slightly to the low-to-mid 80% range during the 2016 third quarter compared to the mid 80% level during the 2016 second quarter and the high 80% to low 90% range in the 2016 first quarter and compared to utilization levels of 90% to 95% in the 2015 third quarter and first nine months.

The petrochemical market, the Company's largest market, contributed 49% of marine transportation revenues for the 2016 third quarter and first nine months, reflecting continued stable volumes from Gulf Coast petrochemical plants for both domestic consumption and to terminals for export destinations, aside from the negative impact of plant maintenance turnarounds. Also, demand for movements of certain upriver petrochemicals was strong in the 2016 third quarter. Low priced domestic natural gas, a basic feedstock for the United States petrochemical industry, provides the industry with a competitive advantage relative to naphtha-based foreign petrochemical producers.

The black oil market, which contributed 25% of marine transportation revenues for the 2016 third quarter and first nine months, respectively, reflected lower fleet utilization due to commodity price volatility. During the 2016 third quarter, the Company continued to transport crude oil and natural gas condensate produced from the Eagle Ford and Permian Basin shale formations in Texas both along the Gulf Intracoastal Waterway with inland vessels and in the Gulf of Mexico with coastal equipment, and continued to transport Utica natural gas condensate downriver from the Mid-Atlantic to the Gulf Coast, however, at significantly reduced levels compared with the 2015 third quarter and first nine months.

The refined petroleum products market, which contributed 23% of marine transportation revenues for the 2016 third quarter and first nine months, respectively, reflected increased volumes in the inland market as a result of the Seacor acquisition in April 2016, partially offset by soft demand in the coastal market, primarily a result of weak distillate and gasoline demand in the Northeast.

The agricultural chemicals market, which contributed 3% of marine transportation revenues for the 2016 third quarter and first nine months, saw typical seasonal demand for transportation of both domestically produced and imported products during the first and third quarters and a decline in demand in the second quarter, primarily due to a shortened spring season.

For the third quarter of 2016, the inland operations incurred 929 delay days, 35% less than the 1,431 delay days that occurred during the 2015 third quarter and 54% less than the 2,035 delay days that occurred during the 2016 second quarter. For the first nine months of 2016, 5,200 delay days occurred, 12% less than the 5,885 delay days that occurred during the 2015 first nine months. Delay days measure the lost time incurred by a tow (towboat and one or more tank barges) during transit when the tow is stopped due to weather, lock conditions or other navigational factors. During the 2016 third quarter, operating conditions were seasonally normal, although there was significant flooding in Louisiana that caused some disruptions in the Gulf Intracoastal Waterway for a short period.

During the 2016 and 2015 third quarters and first nine months, approximately 80% of inland marine transportation revenues were under term contracts and 20% were spot contract revenues. Inland time charters during the 2016 third quarter and first nine months represented 52% and 53%, respectively, of the revenues under term contracts compared with 55% and 56% in the 2015 third quarter and first nine months, respectively.

During the 2016 third quarter and first nine months, approximately 80% of coastal revenues were under term contracts and 20% were spot contract revenues. For the 2015 third quarter and first nine months, approximately 80% and 85%, respectively, of marine transportation's coastal revenues were under term contracts and approximately 20% and 15%, respectively, were under spot contracts. The 2016 first nine months decrease in term contract revenues reflected the continued trend of non-renewal of certain term contracts which put increased equipment in the spot contract market, leading to increased idle time. However, the coastal revenues reflected the new 185,000 barrel ATB placed in service in the 2015 fourth quarter under a long-term contract. The second new 185,000 barrel ATB was placed in service in June 2016, also under a long-term contract. Coastal time charters represented approximately 90% of the revenues under term contracts during the 2016 and 2015 third quarters and first nine months.

Rates on inland term contracts renewed in the 2016 third quarter and first nine months decreased in the 5% to 9% average range compared with term contracts renewed in the 2015 third quarter and first nine months. Spot contract rates, which include the cost of fuel, were relatively flat in the 2016 first quarter when compared with the 2015 fourth quarter and at or below term contract pricing during the 2016 second and third quarters. Effective January 1, 2016, annual escalators for labor and the producer price index on a number of inland multi-year contracts resulted in rate increases on those contracts of approximately 1.5%, excluding fuel.

Rates on coastal term contracts renewed in the 2016 third quarter and first nine months were essentially flat when compared with term contracts renewed in the 2015 third quarter and first nine months. Spot contract rates remained above term contract rates during the 2016 first quarter, fluctuated around term contract rates during the 2016 second quarter and fell below term contract rates during the 2016 third quarter.

Marine Transportation Costs and Expenses

Costs and expenses for the 2016 third quarter and first nine months decreased 7% and 6%, respectively, compared with the 2015 third quarter and first nine months. Costs of sales and operating expenses for the 2016 third quarter and first nine months decreased 8% and 9%, respectively, compared with the third quarter and first nine months of 2015, primarily reflecting lower business activity levels, lower fuel costs due to the decline in the price of diesel fuel and fewer inland towboats operated.

The inland marine transportation fleet operated an average of 227 towboats during the 2016 third quarter, of which an average of 69 towboats were chartered, compared with 246 during the 2015 third quarter, of which an average of 76 towboats were chartered. During the 2016 first nine months, the inland operations operated an average of 236 towboats, of which an average of 78 towboats were chartered, compared with 249 towboats operated during the 2015 first nine months, of which an average of 79 were chartered. As demand, or anticipated demand, increases or decreases, as new tank barges are added to the fleet, as chartered towboat availability changes, or as weather or water conditions dictate, such as the heavy ice and high water conditions that occurred in the 2016 first quarter, the Company charters-in or releases chartered towboats in an effort to balance horsepower needs with current requirements. The Company has historically used chartered towboats for approximately one-third of its horsepower requirements.

During the 2016 third quarter, the inland operations consumed 9.8 million gallons of diesel fuel compared to 10.8 million gallons consumed during the 2015 third quarter. The average price per gallon of diesel fuel consumed during the 2016 third quarter was \$1.59 compared with \$1.91 for the 2015 third quarter. For the 2016 first nine months, the inland operations consumed 29.8 million gallons of diesel fuel compared to 32.6 million gallons consumed during the 2015 first nine months. The average price per gallon of diesel fuel consumed during the 2016 first nine months was \$1.40 compared with \$2.00 for the 2015 first nine months. Fuel escalation and de-escalation clauses on term contracts are designed to rebate fuel costs when prices decline and recover additional fuel costs when fuel prices rise; however, there is generally a 30 to 90 day delay before the contracts are adjusted. Spot contracts do not have escalators for fuel.

Taxes, other than on income, for the 2016 third quarter and first nine months increased 1% and 6%, respectively, compared with the 2015 third quarter and first nine months. The increase for the 2016 first nine months over the 2015 first nine months was mainly due to an increase in the inland waterways user tax rate effective April 1, 2015.

Selling, general and administrative expenses for the 2016 third quarter decreased 8% compared with the 2015 third quarter and were flat for the 2016 first nine months compared to the 2015 first nine months, primarily a reflection of a \$3,792,000 severance charge in the 2016 first quarter and the resulting cost savings in the 2016 second and third quarters, partially offset by salary increases effective August 1, 2016.

Depreciation and amortization for the 2016 third quarter and first nine months increased 1% and 4%, respectively, compared with the 2015 third quarter and first nine months. The increases were primarily attributable to the Seacor acquisition and increased capital expenditures in both the inland and coastal fleets, including new inland tank barges and towboats, as well as a coastal 185,000 barrel ATB placed in service in the fourth quarter of 2015 and a second coastal 185,000 barrel ATB placed in service in the second quarter of 2016.

Marine Transportation Operating Income and Operating Margins

Marine transportation operating income for the 2016 third quarter and first nine months decreased 41% and 31%, respectively, compared with the 2015 third quarter and first nine months. The operating margin was 15.4% for the 2016 third quarter compared with 22.4% for the 2015 third quarter. The operating margin for the 2016 first nine months was 17.7% compared with 22.7% for the 2015 first nine months. The results primarily reflected lower inland marine transportation term and spot contract pricing, lower inland utilization levels, an increase in the number of coastal vessels operating in the spot market which led to increased idle time and voyage costs, higher depreciation expense and the 2016 first quarter severance charge of \$3,792,000.

Diesel Engine Services

The Company, through its diesel engine services segment, sells genuine replacement parts, provides service mechanics to overhaul and repair medium-speed and high-speed diesel engines, transmissions, reduction gears and pumps, maintains facilities to rebuild component parts or entire medium-speed and high-speed diesel engines, transmissions and reduction gears, and manufactures and remanufactures oilfield service equipment, including pressure pumping units. The Company primarily services the marine, power generation and land-based oilfield service and oil and gas operator and producer markets.

The following table sets forth the Company's diesel engine services segment's revenues, costs and expenses, operating income and operating margins for the three months and nine months ended September 30, 2016 compared with the three months and nine months ended September 30, 2015 (dollars in thousands):

	Three months ended September 30,			Nine months ended September 30,		
	2016	2015	% Change	2016	2015	% Change
Diesel engine services revenues	\$ 75,677	\$ 114,222	(34)%	\$ 219,346	\$ 400,093	(45)%
Costs and expenses:						
Costs of sales and operating expenses	55,625	87,205	(36)	166,088	314,863	(47)
Selling, general and administrative	11,709	17,692	(34)	40,018	55,027	(27)
Taxes, other than on income	554	624	(11)	1,607	1,571	2
Depreciation and amortization	3,155	3,090	2	9,773	9,247	6
	71,043	108,611	(35)	217,486	380,708	(43)
Operating income	\$ 4,634	\$ 5,611	(17)%	\$ 1,860	\$ 19,385	(90)%
Operating margins	6.1%	4.9%		0.8%	4.8%	

Diesel Engine Services Revenues

The following table shows the markets serviced by the Company's diesel engine services segment, the revenue distribution for the 2016 third quarter and first nine months and the customers for each market:

Markets Serviced	2016 Third Quarter Revenue Distribution	2016 Nine Months Revenue Distribution	Customers
Land-Based	54%	43%	Land-Based Oilfield Services, Oil and Gas Operators and Producers, On-Highway Transportation
Marine	32%	40%	Inland River Carriers – Dry and Liquid, Offshore Towing – Dry and Liquid, Offshore Oilfield Services – Drilling Rigs & Supply Boats, Harbor Towing, Dredging, Great Lakes Ore Carriers
Power Generation	14%	17%	Standby Power Generation, Pumping Stations

Diesel engine services revenues for the 2016 third quarter and first nine months decreased 34% and 45%, respectively, compared with the 2015 third quarter and first nine months, primarily due to the lack of demand for the manufacture of pressure pumping units and other oilfield service equipment and for the sale and distribution of engines, transmissions and parts due to the impact of the decline in the price of crude oil and decreased drilling activity. The 2016 third quarter saw an increase in activity for the remanufacturing and servicing of pressure pumping units. The marine diesel engine services market remained at depressed levels, primarily due to continued weakness in the Gulf of Mexico oilfield services market. In addition, customers continued to defer major maintenance projects in many regions of the marine diesel engine services market largely due to the weaker barge market and, to a lesser extent, the general economy. However, during the 2016 third quarter, the Midwest marine markets reflected an improvement. The power generation market was relatively strong during the 2016 third quarter and first nine months, benefiting from major generator set upgrades and parts sales for both domestic and international power generation customers.

Diesel Engine Services Costs and Expenses

Costs and expenses for the 2016 third quarter and first nine months decreased 35% and 43%, respectively, compared with the 2015 third quarter and first nine months. Costs of sales and operating expenses for the 2016 third quarter and first nine months decreased 36% and 47%, respectively, compared with the third quarter and first nine months of 2015 reflecting a significant decrease in the number of pressure pumping units and other oilfield service equipment manufactured and remanufactured and a decline in the sale and service of land-based engines, transmissions and parts. The 2016 first quarter, the 2015 first quarter and the 2015 third quarter selling, general and administrative expenses included severance charges of \$1,436,000, \$1,111,000 and \$702,000, respectively, in response to the reduced activity in both the marine and land-based markets.

Diesel Engine Services Operating Income and Operating Margins

Operating income for the 2016 third quarter decreased 17% compared with the 2015 third quarter. For the 2016 first nine months, diesel engine services operating income decreased 90% compared with the 2015 first nine months. The operating margin for the 2016 third quarter was 6.1% compared with 4.9% for the 2015 third quarter and 0.8% for the 2016 first nine months compared with 4.8% for the 2015 first nine months. The results reflected continued weakness in the land-based market, the Gulf of Mexico marine oilfield services market and customer deferrals of major maintenance projects throughout the marine diesel engine services market.

General Corporate Expenses

General corporate expenses for the 2016 third quarter were \$3,786,000, a 1% decrease compared with \$3,811,000 for the third quarter of 2015. For the first nine months of 2016, general corporate expenses were \$11,485,000, a 2% increase compared with \$11,285,000 for the first nine months of 2015.

Gain (Loss) on Disposition of Assets

The Company reported a net loss on disposition of assets of \$122,000 for the 2016 third quarter compared with a net loss of \$400,000 for the 2015 third quarter. For the 2016 first nine months, the Company reported a net gain on disposition of assets of \$39,000 compared with a net gain of \$1,246,000 for the first nine months of 2015. The net gains and losses were predominantly from the sale or retirement of marine equipment and, in the 2015 first quarter, the sale of the assets of a small diesel engine services product line.

Other Income (Expense)

The following table sets forth other income, noncontrolling interests and interest expense for the three months and nine months ended September 30, 2016 compared with the three months and nine months ended September 30, 2015 (dollars in thousands):

	Three months ended September 30,			Nine months ended September 30,		
	2016	2015	% Change	2016	2015	% Change
Other income (expense)	\$ (120)	\$ 22	—	\$ 194	\$ (221)	—
Noncontrolling interests	\$ (343)	\$ (268)	28%	\$ (895)	\$ (902)	(1)%
Interest expense	\$ (4,507)	\$ (4,449)	1%	\$ (13,213)	\$ (14,458)	(9)%

Interest Expense

Interest expense for the 2016 third quarter increased 1% compared with the 2015 third quarter and decreased 9% for the 2016 first nine months compared with the 2015 first nine months. During the 2016 and 2015 third quarters, the average debt and average interest rate (excluding capitalized interest) were \$772,964,000 and 2.7%, and \$804,400,000 and 2.6%, respectively. For the first nine months of 2016 and 2015, the average debt and average interest rate (excluding capitalized interest) were \$756,425,000 and 2.7%, and \$798,725,000 and 2.7%, respectively. Interest expense excludes capitalized interest for the 2016 and 2015 third quarters of \$786,000 and \$830,000, respectively, and for the 2016 and 2015 first nine months of \$2,287,000 and \$2,119,000, respectively.

Financial Condition, Capital Resources and Liquidity

Balance Sheet

Total assets as of September 30, 2016 were \$4,223,827,000 compared with \$4,152,281,000 as of December 31, 2015. The following table sets forth the significant components of the balance sheet as of September 30, 2016 compared with December 31, 2015 (dollars in thousands):

	<u>September 30,</u> <u>2016</u>	<u>December 31,</u> <u>2015</u>	<u>%</u> <u>Change</u>
Assets:			
Current assets	\$ 578,746	\$ 640,776	(10)%
Property and equipment, net	2,918,915	2,778,980	5
Goodwill	587,703	586,718	—
Other assets	138,463	145,807	(5)
	<u>\$ 4,223,827</u>	<u>\$ 4,152,281</u>	<u>2%</u>
Liabilities and stockholders' equity:			
Current liabilities	\$ 317,565	\$ 361,917	(12)%
Long-term debt – less current portion	726,004	774,849	(6)
Deferred income taxes	714,515	669,808	7
Other long-term liabilities	78,994	66,511	19
Total equity	2,386,749	2,279,196	5
	<u>\$ 4,223,827</u>	<u>\$ 4,152,281</u>	<u>2%</u>

Current assets as of September 30, 2016 decreased 10% compared with December 31, 2015. Trade accounts receivable decreased 14%, primarily a reflection of the decrease in revenues for the 2016 third quarter compared with the fourth quarter of 2015. Other accounts receivable decreased 25%, primarily due to a decrease in insurance claims receivables and a decrease in income taxes receivable for income taxes overpaid in the 2015 fourth quarter. Prepaid expenses and other current assets increased 23% primarily due to an increase in prepaid fuel and prepaid insurance.

Property and equipment, net of accumulated depreciation, at September 30, 2016 increased 5% compared with December 31, 2015. The increase reflected \$171,601,000 of capital expenditures for the 2016 first nine months, more fully described under Capital Expenditures Reflected on the Balance Sheet below, the fair value of the property and equipment acquired in acquisitions of \$126,192,000, less \$142,114,000 of depreciation expense for the first nine months of 2016 and \$15,468,000 of property disposals during the 2016 first nine months.

Other assets at September 30, 2016 decreased 5% compared with December 31, 2015 primarily due to amortization of intangibles other than goodwill and the amortization of major maintenance costs on ocean-going vessels, net of major maintenance drydock expenditures for the 2016 first nine months.

Current liabilities as of September 30, 2016 decreased 12% compared with December 31, 2015. Accounts payable decreased 11%, primarily due to decreased business activity levels and decreased shipyard accruals. Accrued liabilities decreased 11%, primarily from payment during the 2016 first nine months of employee incentive compensation accrued during 2015 and a reduction of insurance claims payable, partially offset by the accrual of the Seacor acquisition holdback of \$2,500,000. Deferred revenues decreased 15%, primarily reflecting decreased advanced billings in the coastal marine transportation market and in the diesel engine services power generation market.

Long-term debt, less current portion, as of September 30, 2016 decreased 6% compared with December 31, 2015, reflecting net payments of \$49,445,000 on the revolving credit facility and credit line during the 2016 first nine months. Net deferred debt issue costs were \$3,385,000 and \$3,985,000 at September 30, 2016 and December 31, 2015, respectively.

Deferred income taxes as of September 30, 2016 increased 7% compared with December 31, 2015. The increase was primarily due to the 2016 first nine months deferred tax provision of \$46,264,000.

Other long-term liabilities as of September 30, 2016 increased 19% compared with December 31, 2015. The increase was primarily due to the accrual of pension expense during the 2016 first nine months.

Total equity as of September 30, 2016 increased \$107,553,000 compared with December 31, 2015. The increase was primarily the result of \$109,051,000 of net earnings attributable to Kirby for the first nine months of 2016 and a \$7,730,000 decrease in treasury stock, partially offset by a \$4,304,000 decrease in additional paid-in capital due to the exercise of stock options at exercise prices below the cost of the treasury stock issued and the issuance of restricted stock below the cost of the treasury stock issued, a \$3,159,000 decrease in noncontrolling interests and a decrease of \$1,765,000 in accumulated other comprehensive income. The decrease in treasury stock was due to the issuance of restricted stock in connection with stock award plans, partially offset by purchases during the 2016 first quarter of \$1,827,000 of Company common stock.

Long-Term Financing

The Company has a \$550,000,000 unsecured revolving credit facility (“Revolving Credit Facility”) with a syndicate of banks, with JPMorgan Chase Bank, N.A. as the administrative agent bank, with a maturity date of April 30, 2020. In addition, the credit agreement allows for a \$300,000,000 increase in the aggregate commitments of the banks in the form of revolving credit loans or term loans, subject to the consent of each bank that elects to participate in the increased commitment. The variable interest rate spread varies with the Company’s senior debt rating and is currently 1.00% over the London Interbank Offered Rate (“LIBOR”) or equal to an alternate base rate calculated with reference to the agent bank’s prime rate, among other factors (“Alternate Base Rate”). The commitment fee is currently 0.10%. The Revolving Credit Facility contains certain restrictive financial covenants including an interest coverage ratio and a debt-to-capitalization ratio. In addition to financial covenants, the Revolving Credit Facility contains covenants that, subject to exceptions, restrict debt incurrence, mergers and acquisitions, sales of assets, dividends and investments, liquidations and dissolutions, capital leases, transactions with affiliates and changes in lines of business. Borrowings under the Revolving Credit Facility may be used for general corporate purposes, the purchase of existing or new equipment, the purchase of the Company’s common stock, or for business acquisitions. As of September 30, 2016, the Company was in compliance with all Revolving Credit Facility covenants and had \$229,387,000 of debt outstanding under the Revolving Credit Facility. The Revolving Credit Facility includes a \$25,000,000 commitment which may be used for standby letters of credit. Outstanding letters of credit under the Revolving Credit Facility were \$2,710,000 as of September 30, 2016.

The Company has \$500,000,000 of unsecured senior notes (“Senior Notes Series A” and “Senior Notes Series B”) with a group of institutional investors, consisting of \$150,000,000 of 2.72% Senior Notes Series A due February 27, 2020 and \$350,000,000 of 3.29% Senior Notes Series B due February 27, 2023. No principal payments are required until maturity. The Senior Notes Series A and Series B contain certain covenants on the part of the Company, including an interest coverage covenant, a debt-to-capitalization covenant and covenants relating to liens, asset sales and mergers, among others. The Senior Notes Series A and Series B also specify certain events of default, upon the occurrence of which the maturity of the notes may be accelerated, including failure to pay principal and interest, violation of covenants or default on other indebtedness, among others. As of September 30, 2016, the Company was in compliance with all Senior Notes Series A and Series B covenants and had \$150,000,000 of Senior Notes Series A outstanding and \$350,000,000 of Senior Notes Series B outstanding.

The Company has a \$10,000,000 line of credit (“Credit Line”) with Bank of America, N.A. (“Bank of America”) for short-term liquidity needs and letters of credit, with a maturity date of June 30, 2017. The Credit Line allows the Company to borrow at an interest rate agreed to by Bank of America and the Company at the time each borrowing is made or continued. As of September 30, 2016, the Company had no borrowings outstanding under the Credit Line. Outstanding letters of credit under the Credit Line were \$1,027,000 as of September 30, 2016.

Capital Expenditures Reflected on the Balance Sheet

Capital expenditures reflected on the balance sheet for the 2016 first nine months were \$171,601,000, including \$5,640,000 for inland tank barge and towboat construction, \$14,631,000 in final costs for the construction of two 185,000 barrel coastal ATBs, one placed in service in late 2015 and the second in June 2016, \$56,318,000 for progress payments on the construction of two 155,000 barrel coastal ATBs, one scheduled to be placed in service in the 2016 fourth quarter and one in the 2017 first half, \$4,847,000 for progress payments on the construction of two 4900 horsepower coastal tugboats, \$2,504,000 for progress payments on the construction of a 35,000 barrel coastal petrochemical tank barge scheduled to be placed in service in early 2017 and \$87,661,000 primarily for upgrading existing marine equipment, and marine transportation and diesel engine services facilities. Financing of the construction of the inland tank barges and towboats, the coastal ATBs, the coastal tugboats and the coastal petrochemical tank barge was through operating cash flows and available credit under the Company's Revolving Credit Facility.

During the 2016 first nine months, the Company took delivery of three new inland tank barges with a total capacity of approximately 83,000 barrels, acquired 27 inland tank barges from Seacor with a total capacity of approximately 807,000 barrels, transferred one tank barge into the inland fleet from the coastal fleet with a capacity of 31,000 barrels, returned four leased inland tank barges and retired 44 inland tank barges, reducing its capacity by approximately 942,000 barrels. The net result was a reduction of 17 inland tank barges and approximately 21,000 barrels of capacity during the first nine months of 2016.

The Company projects that capital expenditures for 2016 will be in the \$230,000,000 to \$250,000,000 range. The 2016 construction program will consist of seven inland tank barges with a total capacity of 197,000 barrels, three of which were completed in the 2016 first quarter, two of which are scheduled to be completed in the 2016 fourth quarter and two in early 2017, progress payments on the construction of two 185,000 barrel coastal ATBs, one of which was placed in service in late 2015 and the second in June 2016, progress payments on the construction of two 155,000 barrel coastal ATBs, one scheduled to be placed in service in the 2016 fourth quarter and one in the 2017 first half, and progress payments on the construction of two 4900 horsepower coastal tugboats and a 35,000 barrel coastal petrochemical tank barge. Based on current commitments, steel prices and projected delivery schedules, the Company's 2016 payments on new inland tank barges will be approximately \$10,000,000, 2016 progress payments on the construction of two 185,000 barrel coastal ATBs and two 155,000 barrel coastal ATBs will be approximately \$85,000,000 and 2016 progress payments on the construction of the two 4900 horsepower coastal tugboats and the 35,000 barrel coastal petrochemical tank barge will be approximately \$15,000,000. The balance of approximately \$120,000,000 to \$140,000,000 is primarily capital upgrades and improvements to existing marine equipment, and marine transportation and diesel engine services facilities.

Funding for future capital expenditures is expected to be provided through operating cash flows and available credit under the Company's Revolving Credit Facility.

Treasury Stock Purchases

In February 2016, the Company purchased 35,000 shares of its common stock for \$1,827,000, for an average price of \$52.53 per share. There were no purchases of treasury stock by the Company in the 2016 second or third quarters. As of November 2, 2016, the Company had approximately 1,411,000 shares available under the existing repurchase authorization. The treasury stock purchases are financed through operating cash flows and borrowings under the Company's Revolving Credit Facility. The Company is authorized to purchase its common stock on the New York Stock Exchange and in privately negotiated transactions. When purchasing its common stock, the Company is subject to price, trading volume and other market considerations. Shares purchased may be used for reissuance upon the exercise of stock options or the granting of other forms of incentive compensation, in future acquisitions for stock or for other appropriate corporate purposes.

Liquidity

The Company generated net cash provided by operating activities of \$336,493,000 for the 2016 first nine months compared with \$377,469,000 for the first nine months of 2015. The 2016 first nine months experienced a net increase in cash flows from changes in operating assets and liabilities of \$9,295,000 compared with a net increase in the 2015 first nine months of \$10,941,000.

Funds generated from operations are available for acquisitions, capital expenditure projects, common stock repurchases, repayments of borrowings, and for other corporate and operating requirements. In addition to net cash flow provided by operating activities, the Company also had available as of November 2, 2016, \$301,382,000 under its Revolving Credit Facility and \$8,973,000 under its Credit Line.

Neither the Company, nor any of its subsidiaries, is obligated on any debt instrument, swap agreement, or any other financial instrument or commercial contract which has a rating trigger, except for the pricing grid on its Revolving Credit Facility.

The Company expects to continue to fund expenditures for acquisitions, capital construction projects, common stock repurchases, repayment of borrowings, and for other operating requirements from a combination of available cash and cash equivalents, funds generated from operating activities and available financing arrangements.

The Revolving Credit Facility's commitment is in the amount of \$550,000,000 and expires April 30, 2020. The Senior Notes Series A and Senior Notes Series B do not mature until February 27, 2020 and February 27, 2023, respectively, and require no prepayments.

There are numerous factors that may negatively impact the Company's cash flow in 2016. For a list of significant risks and uncertainties that could impact cash flows, see Note 12, Contingencies, in the financial statements, and Item 1A—Risk Factors and Note 12, Contingencies and Commitments, in the Company's Annual Report on Form 10-K for the year ended December 31, 2015. Amounts available under the Company's existing financial arrangements are subject to the Company continuing to meet the covenants of the credit facilities as described in Item 2, Management's Discussion and Analysis of Financial Condition and Results of Operations under Long-Term Financing.

The Company has issued guaranties or obtained standby letters of credit and performance bonds supporting performance by the Company and its subsidiaries of contractual or contingent legal obligations of the Company and its subsidiaries incurred in the ordinary course of business. The aggregate notional value of these instruments is \$14,162,000 at September 30, 2016, including \$4,057,000 in letters of credit and \$10,105,000 in performance bonds. All of these instruments have an expiration date within four years. The Company does not believe demand for payment under these instruments is likely and expects no material cash outlays to occur in connection with these instruments.

All marine transportation term contracts contain fuel escalation clauses, or the customer pays for the fuel. However, there is generally a 30 to 90 day delay before contracts are adjusted depending on the specific contract. In general, the fuel escalation clauses are effective over the long-term in allowing the Company to recover changes in fuel costs due to fuel price changes. However, the short-term effectiveness of the fuel escalation clauses can be affected by a number of factors including, but not limited to, specific terms of the fuel escalation formulas, fuel price volatility, navigating conditions, tow sizes, trip routing, and the location of loading and discharge ports that may result in the Company over or under recovering its fuel costs. Spot contract rates generally reflect current fuel prices at the time the contract is signed but do not have escalators for fuel.

During the last three years, inflation has had a relatively minor effect on the financial results of the Company. The marine transportation segment has long-term contracts which generally contain cost escalation clauses whereby certain costs, including fuel as noted above, can be passed through to its customers. Spot contract rates include the cost of fuel and are subject to market volatility. The repair portion of the diesel engine services segment is based on prevailing current market rates.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

The Company is exposed to risk from changes in interest rates on certain of its outstanding debt. The outstanding loan balances under the Company's bank credit facilities bear interest at variable rates based on prevailing short-term interest rates in the United States and Europe. A 10% change in variable interest rates would impact the 2016 interest expense by \$68,000 based on balances outstanding at December 31, 2015, and would change the fair value of the Company's debt by less than 1%.

Item 4. Controls and Procedures

The Company's management, with the participation of the Chief Executive Officer and the Chief Financial Officer, has evaluated the Company's disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934 ("Exchange Act")) as of September 30, 2016. Based on that evaluation, the Chief Executive Officer and the Chief Financial Officer concluded that, as of September 30, 2016, the disclosure controls and procedures were effective to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms. There were no changes in the Company's internal control over financial reporting during the quarter ended September 30, 2016 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

PART II – OTHER INFORMATION

Item 1. Legal Proceedings

The discussion of legal proceedings in Note 12 of the Notes to Unaudited Consolidated Condensed Financial Statements in this Quarterly Report is incorporated by reference into this Item 1.

Item 6. Exhibits

10.1†*	– 2000 Nonemployee Director Stock Plan
10.2†*	– 2005 Stock and Incentive Plan
31.1	– Certification of Chief Executive Officer Pursuant to Rule 13a-14(a)
31.2	– Certification of Chief Financial Officer Pursuant to Rule 13a-14(a)
32	– Certification Pursuant to 18 U.S.C. Section 1350
101.INS*	– XBRL Instance Document
101.SCH*	– XBRL Taxonomy Extension Schema Document
101.CAL*	– XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	– XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	– XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	– XBRL Taxonomy Extension Presentation Linkbase Document

* These exhibits are furnished herewith. In accordance with Rule 406T of Regulation S-T, these exhibits are not deemed to be filed or part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, are not deemed to be filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and otherwise are not subject to liability under those sections.

† Management contract, compensatory plan or arrangement.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

KIRBY CORPORATION
(Registrant)

By: _____ /s/ C. ANDREW SMITH
C. Andrew Smith
*Executive Vice President and
Chief Financial Officer*

Dated: November 3, 2016

KIRBY CORPORATION

2000 NONEMPLOYEE DIRECTOR STOCK PLAN

ARTICLE I
GENERAL

Section 1.1. *Purpose.* The purpose of this Plan is to advance the interests of Kirby Corporation, a Nevada corporation (the “Company”), by providing an additional incentive to attract and retain qualified and competent directors, upon whose efforts and judgment the success of the Company is largely dependent, through the encouragement of stock ownership in the Company by such persons.

Section 1.2. *Definitions.* As used herein, the following terms shall have the meaning indicated:

(a) “Award” means a grant under this Plan in the form of an Option or Restricted Stock.

(b) “Board” means the Board of Directors of the Company.

(c) “Change in Control” means the occurrence of any of the following events:

(i) Any “person” (as such term is used in Sections 13(d) and 14(d)(2) of the Securities Exchange Act of 1934, as amended) becomes the beneficial owner, directly or indirectly, of voting securities representing thirty percent (30%) or more of the combined voting power of the Company’s then outstanding voting securities or, if a person is the beneficial owner, directly or indirectly, of voting securities representing thirty percent (30%) or more of the combined voting power of the Company’s outstanding voting securities as of the date a particular Award is granted, such person becomes the beneficial owner, directly or indirectly, of additional voting securities representing ten percent (10%) or more of the combined voting power of the Company’s then outstanding voting securities;

(ii) During any period of twelve (12) months, individuals who at the beginning of such period constitute the Board cease for any reason to constitute a majority of the Directors unless the election, or the nomination for election by the Company’s stockholders, of each new Director was approved by a vote of at least a majority of the Directors then still in office who were Directors at the beginning of the period;

(iii) (A) Any consolidation or merger of the Company or any Subsidiary that results in the holders of the Company’s voting securities immediately prior to the consolidation or merger having (directly or indirectly) less than a majority ownership interest in the outstanding voting securities of the surviving entity immediately after the consolidation or merger, (B) any sale, lease, exchange or other transfer (in one transaction or a series of related transactions) of all or substantially all of the assets of the Company or (C) the liquidation or dissolution of the Company;

(iv) The stockholders of the Company accept a share exchange, with the result that stockholders of the Company immediately before such share exchange do not own, immediately following such share exchange, at least a majority of the voting securities of the entity resulting from such share exchange in substantially the same proportion as their ownership of the voting securities outstanding immediately before such share exchange; or

(v) Any tender or exchange offer is made to acquire thirty percent (30%) or more of the voting securities of the Company, other than an offer made by the Company, and shares are acquired pursuant to that offer.

For purposes of this definition, the term “voting securities” means equity securities, or securities that are convertible or exchangeable into equity securities, that have the right to vote generally in the election of Directors.

(d) “Code” means the Internal Revenue Code of 1986, as amended.

(e) “Committee” means the Compensation Committee, if any, appointed by the Board.

(f) “Compensation Plan” means the written plan or program in effect from time to time, as approved by the Board, which sets forth the compensation to be paid to Eligible Directors.

(g) “Date of Grant” means the date on which an Option or Restricted Stock is deemed granted to an Eligible Director as specified in this Plan.

(h) “Director” means a member of the Board.

(i) “Eligible Director” means a Director who is not an employee of the Company or a Subsidiary.

(j) “Existing Plan” means the 2000 Nonemployee Director Stock Option Plan as adopted by the Board on September 22, 2000 and as amended through April 28, 2015.

(k) “Fair Market Value” of a Share means the closing price on the New York Stock Exchange on the day of reference. If the Shares are not listed for trading on the New York Stock Exchange, the Fair Market Value on the date of reference shall be determined by any fair and reasonable means prescribed by the Committee.

(l) “Nonincentive Stock Option” means an option that is not an incentive stock option as defined in Section 422 of the Internal Revenue Code of 1986, as amended.

(m) “Option” means any option granted under this Plan.

(n) "Optionee" means a person to whom a stock option is granted under this Plan or any successor to the rights of such person under this Plan by reason of the death of such person.

(o) "Payment Date" means the last day of a calendar quarter.

(p) "Plan" means this 2000 Nonemployee Director Stock Plan for Kirby Corporation.

(q) "Restricted Stock" means Shares granted under this Plan that are subject to restrictions described in Article III and the Compensation Plan.

(r) "Share" means a share of the common stock, par value ten cents (\$0.10) per share, of the Company.

(s) "Subsidiary" means any corporation (other than the Company) in any unbroken chain of corporations beginning with the Company if, at the time of the granting of the Option, each of the corporations other than the last corporation in the unbroken chain owns stock possessing 50% or more of the total combined voting power of all classes of stock in one of the other corporations in such chain.

Section 1.3. *Total Shares and Limitations.*

(a) The maximum number of Shares that may be issued under this Plan shall be One Million Five Hundred Thousand (1,500,000) Shares, which may be from Shares held in the Company's treasury or from authorized and unissued Shares. If any Award granted under the Plan shall terminate, expire or be cancelled or surrendered as to any Shares, new Options may thereafter be granted covering such Shares or such Shares may thereafter be issued as Restricted Stock. All Share numbers in the Plan reflect the 2-for-1 split of the common stock of the Company effected on May 31, 2006.

(b) The maximum aggregate number of Shares that may be issued upon the exercise of Options granted pursuant to Section 2.3 or as Restricted Stock pursuant to Section 3.3 shall be Ten Thousand (10,000) Shares.

ARTICLE II
STOCK OPTIONS

Section 2.1. *Grant of Options.* Options shall be granted to Eligible Directors as provided in Section 2.2 and may be granted in the discretion of the Committee as provided in Section 2.3. All Options shall be Nonincentive Stock Options. Each Option shall be evidenced by an option agreement containing such terms deemed necessary or desirable by the Committee that are not inconsistent with the Plan or any applicable law. Neither the Plan nor any Option shall confer upon any person any right to continue to serve as a Director.

Section 2.2. *Election to Receive Options.* If the Compensation Plan permits Eligible Directors to elect to receive an Option in lieu of all or part of Director fees otherwise payable in cash, each Eligible Director who has properly and timely made such election as provided in the Compensation Plan shall be granted an Option for a number of Shares equal to (i) the amount of the fee such Eligible Director elects to receive in the form of an Option divided by (ii) the Fair Market Value of a Share on the Date of Grant multiplied by (iii) 3, with the result rounded to the nearest whole Share.

Section 2.3. *Discretionary Grant of Options.* The Committee may in its discretion grant Options to Eligible Directors in addition to the Options granted pursuant to Section 2.2.

Section 2.4. *Option Price.* The option price per Share for any Option shall be the Fair Market Value on the Date of Grant.

Section 2.5. *Date of Grant.*

(a) The Date of Grant of an Option granted under Section 2.2 shall be the second business day after the Company's first quarter earnings conference call following the election by the Eligible Director pursuant to the Compensation Plan to receive the Option in lieu of cash fees, except that, for a newly elected Eligible Director, the Date of Grant shall be the date of his or her election to receive an Option in lieu of cash fees.

(b) The Date of Grant of an Option granted under Section 2.3 shall be the date on which the Committee takes formal action to grant the Option or such later date as may be specified by the Committee when granting the Option.

Section 2.6. *Vesting.*

(a) An Option granted under Section 2.2 shall become exercisable on the Payment Date(s) following the Date of Grant as provided in this Section 2.6(a). The number of Shares as to which an Option granted under Section 2.2 will become exercisable on each Payment Date after the Date of Grant shall equal the number of Shares subject to the Option divided by the number of Payment Dates occurring after the Date of Grant and before the first anniversary of the most recent annual meeting of stockholders of the Company.

(b) An Option granted under Section 2.3 shall become exercisable six months after the Date of Grant.

(c) Notwithstanding the other provisions of this Section 2.6, (i) an Option shall only become exercisable as provided in this Section 2.6 if the Optionee is a Director at the time the Option would otherwise become exercisable and (ii) upon the occurrence of a Change in Control, all Options outstanding at the time of the Change in Control shall become immediately exercisable.

Section 2.7. *Term of Options.* The portion of an Option that is exercisable shall automatically and without notice terminate upon the earlier of (a) one (1) year after the Optionee ceases to be a Director for any reason or (b) ten (10) years after the Date of Grant of the Option. The portion of an Option that is not exercisable shall automatically and without notice terminate at the time the Optionee ceases to be a Director for any reason.

Section 2.8. *Exercise of Options.* Any Option may be exercised in whole or in part to the extent exercisable in accordance with Section 2.6. An Option shall be deemed exercised when (i) the Company has received written notice of such exercise in accordance with the terms of the Option and (ii) full payment of the aggregate option price of the Shares as to which the Option is exercised has been made. Unless further limited by the Committee in any Option, the option price of any Shares purchased shall be paid solely in cash, by certified or cashier's check, by money order, by personal check, by withholding Shares otherwise deliverable upon exercise of the Option or with Shares owned by the Optionee for at least six months, or by a combination of the foregoing. If the option price is paid in whole or in part with Shares, the value of the Shares withheld or delivered shall be their Fair Market Value on the date received by the Company.

Section 2.9. *Adjustment of Shares.*

(a) If at any time while the Plan is in effect or unexercised Options are outstanding, there shall be any increase or decrease in the number of issued and outstanding Shares through the declaration of a stock dividend or through any recapitalization resulting in a stock split, combination or exchange of Shares, then and in such event:

(i) appropriate adjustment shall be made in the maximum number of Shares then subject to being optioned under the Plan, and the numbers of Options to be granted under Sections 2.2 and 2.3, so that the same proportion of the Company's issued and outstanding Shares shall continue to be subject to being so optioned, and

(ii) appropriate adjustment shall be made in the number of Shares and the exercise price per Share thereof then subject to any outstanding Option, so that the same proportion of the Company's issued and outstanding Shares shall remain subject to purchase at the same aggregate exercise price.

(b) In the event of a merger, consolidation or other reorganization of the Company in which the Company is not the surviving entity, the Board or the Committee may provide for any or all of the following alternatives: (i) for Options to become immediately exercisable, (ii) for exercisable Options to be cancelled immediately prior to such transaction, (iii) for the assumption by the surviving entity of the Plan and the Options, with appropriate adjustments in the number and kind of shares and exercise prices or (iv) for payment in cash or stock in lieu of and in complete satisfaction of Options.

(c) Any fractional shares resulting from any adjustment under this Section 2.9 shall be disregarded and each Option shall cover only the number of full shares resulting from such adjustment.

(d) Except as otherwise expressly provided herein, the issuance by the Company of shares of its capital stock of any class, or securities convertible into shares of capital stock of any class, either in connection with direct sale or upon the exercise of rights or warrants to subscribe therefor, or upon conversion of shares or obligations of the Company convertible into such shares or other securities, shall not affect, and no adjustment by reason thereof shall be made with respect to, the number of or exercise price of Shares then subject to outstanding Options granted under the Plan.

(e) Without limiting the generality of the foregoing, the existence of outstanding Options granted under the Plan shall not affect in any manner the right or power of the Company to make, authorize or consummate (i) any or all adjustments, recapitalizations, reorganizations or other changes in the Company's capital structure or its business; (ii) any merger or consolidation of the Company; (iii) any issue by the Company of debt securities, or preferred or preference stock that would rank above the Shares subject to outstanding Options; (iv) the dissolution or liquidation of the Company; (v) any sale, transfer or assignment of all or any part of the assets or business of the Company; or (vi) any other corporate act or proceeding, whether of a similar character or otherwise.

Section 2.10. *Transferability of Options.* Each Option shall provide that such Option shall not be transferable by the Optionee otherwise than by will or the laws of descent and distribution and that so long as an Optionee lives, only such Optionee or his guardian or legal representative shall have the right to exercise such Option.

Section 2.11. *Issuance of Shares.* No person shall be, or have any of the rights or privileges of, a stockholder of the Company with respect to any of the Shares subject to any Option unless and until such Shares (whether in certificated or in book entry or other electronic form) shall have been issued and delivered to such person. As a condition of any transfer of Shares, the Committee may obtain such agreements or undertakings, if any, as it may deem necessary or advisable to assure compliance with any provision of the Plan, any agreement or any law or regulation including, but not limited to, the following:

(a) a representation, warranty or agreement by the Optionee to the Company, at the time any Option is exercised, that the Optionee is acquiring the Shares for investment and not with a view to, or for sale in connection with, the distribution of any such Shares; and

(b) a representation, warranty or agreement to be bound by any restrictions that are, in the opinion of the Committee, necessary or appropriate to comply with the provisions of any securities law deemed by the Committee to be applicable to the issuance of the Shares.

ARTICLE III RESTRICTED STOCK

Section 3.1. *Grants of Restricted Stock.* Restricted Stock shall be granted to Eligible Directors as provided in Sections 3.2 and 3.3 and may be granted in the discretion of the Committee as provided in Section 3.4. Each Restricted Stock grant shall be evidenced by an agreement containing such terms deemed necessary or desirable by the Committee that are not inconsistent with the Plan or any applicable law. No grant of Restricted Stock shall confer upon any person any right to continue to serve as a Director.

Section 3.2. *Automatic Annual Grants.* Following each annual meeting of stockholders of the Company, each Eligible Director shall automatically be granted \$167,500 in value of Restricted Stock, except that an Eligible Director elected between annual stockholder meetings shall be granted a prorated dollar value of restricted stock for the year in which he or she is first elected. The number of shares of Restricted Stock granted will be equal to (a) the dollar value divided by (b) the Fair Market Value on the Date of Grant multiplied by (c) 1.2, with the result then rounded to the nearest whole share.

Section 3.3. *Election to Receive Restricted Stock.* If the Compensation Plan permits Eligible Directors to elect to receive Restricted Stock in lieu of all or part of Director fees otherwise payable in cash, each Eligible Director who has properly and timely made such election as provided in the Compensation Plan shall automatically be granted a number of Shares of Restricted Stock equal to (i) the amount of the fee such Eligible Director elects to receive in the form of Restricted Stock divided by (ii) the Fair Market Value of a Share on the Date of Grant multiplied by (iii) 1.2, with the result rounded to the nearest whole Share.

Section 3.4. *Discretionary Grant of Restricted Stock.* The Committee may in its discretion grant Restricted Stock to Eligible Directors in addition to Restricted Stock granted pursuant to Sections 3.2 and 3.3.

Section 3.5. *Date of Grant.*

(a) The Date of Grant of Restricted Stock granted under Section 3.2 shall be the second business day after the Company's first quarter earnings conference call, except that for an Eligible Director elected between annual stockholder meetings, the Date of Grant shall be determined as follows:

(i) If the Eligible Director is elected at a regular quarterly meeting of the Board, the Date of Grant shall be the second business day after the Company's earnings conference call for the immediately preceding quarter.

(ii) If the Eligible Director is elected at any other time, the Date of Grant shall be the date of his or her election.

(b) The Date of Grant of Restricted Stock granted under Section 3.3 shall be the second business day after the Company's first quarter earnings conference call following the election by the Eligible Director pursuant to the Compensation Plan to receive the Restricted Stock in lieu of cash fees, except that, for a newly elected Eligible Director, the Date of Grant shall be the date of his or her election to receive Restricted Stock in lieu of cash fees.

(c) The Date of Grant of Restricted Stock granted under Section 3.4 shall be the date on which the Committee takes formal action to grant the Restricted Stock.

Section 3.6. *Vesting.*

(a) Restricted Stock granted under Section 3.2 shall vest six months after the Date of Grant.

(b) Restricted Stock granted under Section 3.3 shall vest on the Payment Date(s) following the Date of Grant as provided in this Section 3.6(b). The number of Shares of Restricted Stock granted under Section 3.3 that will vest on each Payment Date after the Date of Grant shall equal the number of Shares of Restricted Stock granted divided by the number of Payment Dates occurring after the Date of Grant and before the first anniversary of the most recent annual meeting of stockholders of the Company.

(c) Restricted Stock granted under Section 3.4 shall vest six months after the Date of Grant.

(d) Notwithstanding the other provisions of this Section 3.6, (i) Restricted Stock shall only vest as provided in this Section 3.6 if the holder is a Director at the time the Restricted Stock would otherwise vest and (ii) upon the occurrence of a Change in Control, all Restricted Stock issued under the Plan that is outstanding at the time of the Change in Control shall immediately vest.

(e) Notwithstanding the vesting conditions set forth in the Plan or the Compensation Plan, the Committee may in its discretion at any time accelerate the vesting of Restricted Stock or otherwise waive or amend any conditions of a grant of Restricted Stock under the Plan.

Section 3.7. *Restrictions on Transfer.* Restricted Stock granted to an Eligible Director under the Plan (whether represented by stock certificates or in book entry or other electronic form) shall be registered in the Director's name or, at the option of the Committee, not issued until such time as the Restricted Stock shall become vested or as otherwise determined by the Committee. If certificates are issued prior to the Shares of Restricted Stock becoming vested, such certificates shall either be held by the Company on behalf of the Director, or delivered to the Director bearing a legend to restrict transfer of the certificate until the Restricted Stock has vested, as determined by the Committee. The Director shall have the right to vote and receive dividends on the Restricted Stock before it has vested. Except as may otherwise be expressly permitted by the Committee, no Share of Restricted Stock may be sold, transferred, assigned or pledged by the Director until such Share has vested. In the event that a Director ceases to be a Director before all the Director's Restricted Stock has vested, the Shares of Restricted Stock that have not vested shall be forfeited. At the time Restricted Stock vests (and, if the Director has been issued legended certificates for Restricted Stock, upon the return of such certificates to the Company), such vested Shares shall be issued to the Director, in certificated or book entry or other electronic form, free of restrictions.

Section 3.8. *Issuance of Shares.* As a condition of the issuance of any Shares of Restricted Stock, the Committee may obtain such agreements or undertakings, if any, as it may deem necessary or advisable to assure compliance with any provision of the Plan, any agreement or any law or regulation including, but not limited to, the following:

(a) a representation, warranty or agreement by the Eligible Director to the Company that the Eligible Director is acquiring the Shares for investment and not with a view to, or for sale in connection with, the distribution of any such Shares; and

(b) a representation, warranty or agreement to be bound by any restrictions that are, in the opinion of the Committee, necessary or appropriate to comply with the provisions of any securities law deemed by the Committee to be applicable to the issuance of the Shares.

Section 3.9. *Section 83(b) Election.* If a Director receives Restricted Stock that is subject to a “substantial risk of forfeiture,” the Director may elect under Section 83(b) of the Code to include in his or her gross income, for the taxable year in which the Restricted Stock is received, the Fair Market Value of such Restricted Stock on the Date of Grant. If the Director makes the Section 83(b) election, the Director shall (a) make such election in a manner that is satisfactory to the Committee, (b) provide the Company with a copy of such election and (c) agree to promptly notify the Company if any Internal Revenue Service or state tax agent, on audit or otherwise, questions the validity or correctness of such election or of the amount of income reportable on account of such election.

ARTICLE IV
ADDITIONAL PROVISIONS

Section 4.1. *Administration of the Plan.* The Plan shall be administered by the Committee. The Committee shall have the authority to interpret the provisions of the Plan, to adopt such rules and regulations for carrying out the Plan as it may deem advisable, to decide conclusively all questions arising with respect to the Plan and to make all other determinations and take all other actions necessary or desirable for the administration of the Plan. All decisions and acts of the Committee shall be final and binding upon all affected Optionees and holders of Restricted Stock. If there is no Committee, the Board shall administer the Plan and in such case all references to the Committee shall be deemed to be references to the Board.

Section 4.2. *Adjustment of Shares.* If at any time while the Plan is in effect, there shall be any increase or decrease in the number of issued and outstanding Shares through the declaration of a stock dividend or through any recapitalization resulting in a stock split, combination or exchange of Shares, the Committee shall make an appropriate adjustment in the number and kind of Shares then subject to being issued under the Plan, so that the same proportion of the Company’s issued and outstanding Shares shall continue to be subject to issuance under the Plan upon the exercise of Options or as Restricted Stock.

Section 4.3. *Amendment.* The Board may amend or modify the Plan in any respect at any time, subject to stockholder approval if required by applicable law or regulation or by applicable stock exchange rules.

Section 4.4. *Duration and Termination.* No Awards shall be made under the Plan after April 23, 2022. The Board may suspend, discontinue or terminate the Plan at any time. The suspension, discontinuance or termination of the Plan shall not impair any of the rights of any holder of any Option or Restricted Stock outstanding on the date of the Plan’s suspension, discontinuance or termination without the holder’s written consent.

Section 4.5. *Effective Date.* The Plan amends and restates the Existing Plan in its entirety, effective October 28, 2016.

KIRBY CORPORATION

2005 Stock and Incentive Plan

ARTICLE I
GENERAL

Section 1.1. *Purpose.* The purpose of this Plan is to advance the interests of Kirby Corporation, a Nevada corporation (the “Company”), by providing an additional incentive to attract and retain qualified and competent employees for the Company and its Subsidiaries, upon whose efforts and judgment the success of the Company is largely dependent, through the award of (i) Options to purchase shares of Common Stock (which Options may be Incentive Stock Options or Nonincentive Stock Options); (ii) shares of Restricted Stock; and (iii) Performance Awards.

Section 1.2. *Definitions.* As used herein, the following terms shall have the meaning indicated:

- (a) “Award” means a grant under this Plan in the form of Options, Restricted Stock, Performance Awards or any combination of the foregoing.
- (b) “Board” means the Board of Directors of the Company.
- (c) “Cause” means, with respect to any Participant:
 - (i) conviction of, or plea of nolo contendere to, any felony or any crime or offense involving theft, fraud, embezzlement, moral turpitude or similar conduct;
 - (ii) malfeasance in the performance of the Participant’s duties, which shall mean (A) intentional misuse or diversion of Company assets, (B) theft or embezzlement or (C) fraudulent or willful and material misrepresentations or omissions in any reports or information submitted to the Company or a Subsidiary or any government agency or regulatory authority;
 - (iii) material failure to perform the duties of the Participant’s employment (other than as a result of the Participant’s Disability) or material failure to follow or comply with reasonable directives from any other employee of the Company who has direct or indirect supervisory authority over the Participant;
 - (iv) a material violation of the Company’s Business Ethics Guidelines or any other written policies of the Company applicable to the Participant; or
 - (v) a material violation of any federal, state or local laws or regulations.

(d) "Change in Control" means the occurrence of any of the following events:

(i) Any "person" (as such term is used in Sections 13(d) and 14(d)(2) of the Securities Exchange Act of 1934, as amended) becomes the beneficial owner, directly or indirectly, of voting securities representing thirty percent (30%) or more of the combined voting power of the Company's then outstanding voting securities;

(ii) The Board ceases to consist of a majority of Continuing Directors, with the term "Continuing Director" meaning a Director who (A) is a Director on the effective date of the Plan or (B) is nominated or appointed to serve as a Director by a majority of the then Continuing Directors;

(iii) (A) Any consolidation or merger of the Company or any Subsidiary that results in the holders of the Company's voting securities immediately prior to the consolidation or merger having (directly or indirectly) less than a majority ownership interest in the outstanding voting securities of the surviving entity immediately after the consolidation or merger, (B) any sale, lease, exchange or other transfer (in one transaction or a series of related transactions) of all or substantially all of the assets of the Company or (C) the liquidation or dissolution of the Company;

(iv) The stockholders of the Company accept a share exchange, with the result that stockholders of the Company immediately before such share exchange do not own, immediately following such share exchange, at least a majority of the voting securities of the entity resulting from such share exchange in substantially the same proportion as their ownership of the voting securities outstanding immediately before such share exchange; or

(v) Any tender or exchange offer is made to acquire thirty percent (30%) or more of the voting securities of the Company, other than an offer made by the Company, and shares are acquired pursuant to that offer.

For purposes of this definition, the term "voting securities" means equity securities, or securities that are convertible or exchangeable into equity securities, that have the right to vote generally in the election of Directors.

(e) "Code" means the Internal Revenue Code of 1986, as amended.

(f) "Committee" means the Compensation Committee, if any, appointed by the Board.

(g) "Date of Grant" means the date on which the Committee takes formal action to grant an Award to an Eligible Person or such later date as may be specified by the Committee when approving the Award.

(h) "Director" means a member of the Board.

(i) "Disability" means mental or physical disability as determined by a medical doctor satisfactory to the Committee.

- (j) “Eligible Person” means an employee of the Company or a Subsidiary.
- (k) “Existing Plan” means the 2005 Stock and Incentive Plan as approved by the stockholders of the Company on April 26, 2005 and as amended through July 28, 2015.
- (l) “Fair Market Value” of a Share means the closing price on the New York Stock Exchange on the day of reference. If the Shares are not listed for trading on the New York Stock Exchange, the Fair Market Value on the date of reference shall be determined by any fair and reasonable means prescribed by the Committee.
- (m) “Good Reason” means, with respect to any Participant:
 - (i) a material adverse change in the Participant’s duties and responsibilities at the Company or a Subsidiary or successor as in effect immediately prior to the Change in Control;
 - (ii) a material reduction in the Participant’s base salary or bonus opportunity compared to the base salary and bonus opportunity in effect immediately prior to the Change in Control; or
 - (iii) relocation of the Participant’s primary place of work by more than 35 miles from his or her primary place of work immediately prior to the Change in Control.
- (n) “Incentive Stock Option” means an option that is an incentive stock option as defined in Section 422 of the Code.
- (o) “Nonincentive Stock Option” means an option that is not an Incentive Stock Option.
- (p) “Option” means any option granted under this Plan.
- (q) “Optionee” means a person to whom a stock option is granted under this Plan or any successor to the rights of such person under this Plan by reason of the death of such person.
- (r) “Participant” means a person to whom an Award is granted under the Plan.
- (s) “Performance Award” means an Award granted pursuant to Article IV.
- (t) “Performance Objectives” means the objectives established by the Committee pursuant to Section 4.1(b).
- (u) “Performance Period” means the period over which the performance of a holder of a Performance Award is measured.
- (v) “Plan” means this Kirby Corporation 2005 Stock and Incentive Plan.
- (w) “Restricted Stock” means Shares granted under this Plan that are subject to restrictions imposed by the Committee pursuant to Article III.

- (x) "Restricted Stock Award" means an award of Restricted Stock under this Plan.
- (y) "Section 162(m) Participant" means each Participant who would be a "covered employee" under Section 162(m) of the Code.
- (z) "Share" means a share of the common stock, par value ten cents (\$0.10) per share, of the Company.

(aa) "Subsidiary" means any corporation (other than the Company) in any unbroken chain of corporations beginning with the Company if each of the corporations other than the last corporation in the unbroken chain owns stock possessing 50% or more of the total combined voting power of all classes of stock in one of the other corporations in the chain.

Section 1.3. *Total Shares and Limitations.*

(a) The maximum number of Shares that may be issued under the Plan shall be Five Million (5,000,000) Shares, which may be from Shares held in the Company's treasury or from authorized and unissued Shares. If any Award granted under the Plan shall terminate, expire or be cancelled or surrendered as to any Shares, or the Award is paid in cash in lieu of Shares, the Shares that were subject to such Award shall not count against the above limit and shall again be available for grants under the Plan. Shares equal in number to the Shares withheld in payment of the option price of an Option and Shares that are withheld in order to satisfy federal, state or local tax liability, shall not count against the above limit and shall be available for grants under the Plan. All Share numbers in the Plan reflect the 2-for-1 split of the common stock of the Company effected on May 31, 2006.

(b) The maximum number of Shares with respect to which Incentive Stock Options may be granted to a Participant during a calendar year is 500,000.

(c) The maximum number of Shares with respect to which Options may be granted to a Participant during a calendar year is 500,000.

(d) The maximum number of Shares that may be issued to any Participant pursuant to any Performance Award during the term of the Plan shall be 400,000.

(e) The maximum amount of cash that may be paid to any Participant pursuant to any Performance Award during any calendar year shall be \$5,000,000.

Section 1.4. *Awards Under the Plan.*

(a) Only Eligible Persons may receive awards under the Plan. Awards to Eligible Persons may be in the form of (i) Options; (ii) shares of Restricted Stock; (iii) Performance Awards; or (iv) any combination of the foregoing. No Award shall confer on any person any right to continue as an employee of the Company or any Subsidiary.

(b) Each Award shall be evidenced by an agreement containing any terms deemed necessary or desirable by the Committee that are not inconsistent with the Plan or applicable law.

ARTICLE II
STOCK OPTIONS

Section 2.1. *Grant of Options.* The Committee may from time to time grant Options to Eligible Persons. Options may be Incentive Stock Options or Nonincentive Stock Options as designated by the Committee on or before the Date of Grant. If no such designation is made by the Committee for an Option, the Option shall be a Nonincentive Stock Option. The aggregate Fair Market Value (determined as of the Date of Grant) of the Shares with respect to which Incentive Stock Options are exercisable for the first time by an Optionee during any calendar year under the Plan and all such plans of the Company and any parent or Subsidiary of the Company (as defined in Section 424 of the Code) shall not exceed \$100,000.

Section 2.2. *Exercise Price.* The exercise price per Share for any Option shall be determined by the Committee, but shall not be less than the Fair Market Value on the Date of Grant and shall not be less than 110% of the Fair Market Value on the Date of Grant for any Incentive Stock Option if the Optionee is a person who owns directly or indirectly (within the meaning of Section 422(b)(6) of the Code) stock possessing more than 10% of the total combined voting power of all classes of stock of the Company.

Section 2.3. *Term of Option.* The term of an Option shall be determined by the Committee, provided that, in the case of an Incentive Stock Option, if the grant is to a person who owns directly or indirectly (within the meaning of Section 422(b)(6) of the Code) stock possessing more than 10% of the total combined voting power of all classes of stock of the Company, the term of the Option shall not exceed five years from the Date of Grant. Notwithstanding any other provision of this Plan, no Option shall be exercised after the expiration of its term.

Section 2.4. *Vesting.* Options shall be exercisable at such times and subject to such terms and conditions as the Committee shall specify in the option agreement. Unless the option agreement specifies otherwise, the Committee shall have discretion at any time to accelerate such times and otherwise waive or amend any conditions in respect of all or any portion of any Options. Notwithstanding the other provisions of this Section 2.4 and unless otherwise provided in the option agreement, in the event that an Optionee's employment is terminated without Cause by the Company, a Subsidiary or successor entity, or is terminated by the Optionee for Good Reason, in either case in connection with or within 18 months after a Change in Control, all Options held by the Optionee immediately prior to such termination shall become immediately exercisable.

Section 2.5. *Termination of Options.*

(a) Except as otherwise provided in the Plan or the option agreement, the portion of an Option that is exercisable shall automatically and without notice terminate upon the earliest to occur of the following:

(i) thirty (30) days after the date on which the Optionee ceases to be an Employee for any reason other than (x) death, (y) Disability or (z) termination for cause;

- (ii) one (1) year after the date on which the Optionee ceases to be an Employee as a result of a Disability;
- (iii) either (y) one (1) year after the death of the Optionee or (z) six (6) months after the death of the Optionee if the Optionee dies during the 30-day period described in Section 2.5(a)(i) or the one-year period described in Section 2.5(a)(ii);
- (iv) the date on which the Optionee ceases to be an Employee as a result of a termination for cause; and
- (v) the tenth anniversary of the Date of Grant of the Option.

(b) Except as provided in Section 2.4, the portion of an Option that is not exercisable shall automatically and without notice terminate on the date on which the Optionee ceases to be an Employee for any reason.

(c) The Committee shall have discretion at any time to extend the term of any Nonincentive Stock Option to any date that is not later than the date described in Section 2.5(a)(v).

Section 2.6. *Exercise of Options.* An Option may be exercised in whole or in part to the extent exercisable in accordance with Section 2.4 and the option agreement. An Option shall be deemed exercised when (i) the Company has received written notice of such exercise in accordance with the terms of the Option and (ii) full payment of the aggregate exercise price of the Shares as to which the Option is exercised has been made. Unless further limited by the Committee for any Option, the exercise price of any Shares purchased shall be paid solely in cash, by certified or cashier's check, by money order, by personal check, by withholding Shares from an Award or with Shares owned by the Optionee for at least six months, or by a combination of the foregoing. If the exercise price is paid in whole or in part with Shares, the value of the Shares withheld shall be their Fair Market Value on the date received by the Company.

Section 2.7. *Corporate Transactions.*

(a) In the event of a merger, consolidation or other reorganization of the Company in which the Company is not the surviving entity, the Board or the Committee may provide for payment in cash or in securities of the Company or the surviving entity in lieu of and in complete satisfaction of Options.

(b) Except as otherwise expressly provided herein, the issuance by the Company of shares of its capital stock of any class, or securities convertible into shares of capital stock of any class, either in connection with direct sale or upon the exercise of rights or warrants to subscribe therefor, or upon conversion of shares or obligations of the Company convertible into such shares or other securities, shall not affect, and no adjustment by reason thereof shall be made with respect to, the number of or exercise price of Shares then subject to outstanding Options granted under the Plan.

(c) Without limiting the generality of the foregoing, the existence of outstanding Options granted under the Plan shall not affect in any manner the right or power of the Company to make, authorize or consummate (i) any or all adjustments, recapitalizations, reorganizations or other changes in the Company's capital structure or its business; (ii) any merger or consolidation of the Company; (iii) any issue by the Company of debt securities, or preferred or preference stock that would rank above the Shares subject to outstanding Options; (iv) the dissolution or liquidation of the Company; (v) any sale, transfer or assignment of all or any part of the assets or business of the Company; or (vi) any other corporate act or proceeding, whether of a similar character or otherwise.

Section 2.8. *Issuance of Shares.* No person shall be, or have any of the rights or privileges of, a stockholder of the Company with respect to any of the Shares subject to any Option unless and until such Shares (whether represented by certificates or in book-entry or other electronic form) shall have been issued and delivered to such person.

ARTICLE III RESTRICTED STOCK

Section 3.1. *Grant of Restricted Stock Awards.* The Committee may from time to time grant Restricted Stock Awards to Eligible Persons.

Section 3.2. *Terms and Conditions of Restricted Stock Awards.* Each Restricted Stock Award shall specify the number of shares of Restricted Stock awarded, the price, if any, to be paid by the Participant receiving the Restricted Stock Award, the date or dates on which the Restricted Stock will vest and any other terms and conditions that the Committee may determine. The vesting and number of shares of Restricted Stock may be conditioned upon the completion of a specified period of service with the Company or its Subsidiaries or upon the attainment of any performance goals established by the Committee, including without limitation goals related to the performance of the Company or any Subsidiary, division, department or other unit of the Company, the performance of the Company's common stock or other securities, the performance of the recipient of the Restricted Stock Award or any combination of the foregoing.

Section 3.3. *Restrictions on Transfer.* Unless otherwise provided in the grant relating to a Restricted Stock Award, the Restricted Stock granted to a Participant (whether represented by certificates or in book-entry or other electronic form) shall be registered in the Participant's name or, at the option of the Committee, not issued until such time as the Restricted Stock shall become vested or as otherwise determined by the Committee. If certificates are issued prior to the shares of Restricted Stock becoming vested, such certificates shall either be held by the Company on behalf of the Participant, or delivered to the Participant bearing a legend to restrict transfer of the certificate until the Restricted Stock has vested, as determined by the Committee. The Committee shall determine whether the Participant shall have the right to vote and/or receive dividends on the Restricted Stock before it has vested. Except as may otherwise be expressly permitted by the Committee, no share of Restricted Stock may be sold, transferred, assigned or pledged by the Participant until such share has vested in accordance with the terms of the Restricted Stock Award. Except as provided in Section 3.4 or unless the grant of a Restricted Stock Award specifies otherwise, in the event that a Participant ceases to be an Employee before all the Participant's Restricted Stock has vested, or in the event other conditions to the vesting of Restricted Stock have not been satisfied prior to any deadline for the satisfaction of such conditions set forth in the award agreement, the shares of Restricted Stock that have not vested shall be forfeited and any purchase price paid by the Participant for the forfeited Shares shall be returned to the Participant. At the time Restricted Stock vests (and, if the Participant has been issued legended certificates for Restricted Stock, upon the return of such certificates to the Company), such vested shares shall be issued to the Participant (or the beneficiary designated by the Participant in the event of death), in certificated or book entry or other electronic form, free of all restrictions.

Section 3.4. *Accelerated Vesting.* Notwithstanding the vesting conditions set forth in a Restricted Stock Award, unless the Restricted Stock Award grant or other agreement with the Participant specifies otherwise:

(a) the Committee may in its discretion at any time accelerate the vesting of Restricted Stock or otherwise waive or amend any conditions of a grant of a Restricted Stock Award, and

(b) in the event that a Participant's employment is terminated without Cause by the Company, a Subsidiary or successor, or is terminated by the Participant for Good Reason, in either case in connection with or within 18 months after a Change in Control, all shares of Restricted Stock held by the Participant immediately prior to such termination shall immediately become vested.

Section 3.5. *Section 83(b) Election.* If a Participant receives Restricted Stock that is subject to a "substantial risk of forfeiture," such Participant may elect under Section 83(b) of the Code to include in his or her gross income, for the taxable year in which the Restricted Stock is received, the excess of the Fair Market Value of such Restricted Stock on the Date of Grant (determined without regard to any restriction other than one which by its terms will never lapse), over the amount paid for the Restricted Stock. If the Participant makes the Section 83(b) election, the Participant shall (a) make such election in a manner that is satisfactory to the Committee, (b) provide the Company with a copy of such election, (c) agree to notify the Company promptly if any Internal Revenue Service or state tax agent, on audit or otherwise, questions the validity or correctness of such election or of the amount of income reportable on account of such election and (d) agree to such federal and state income tax withholding as the Committee may reasonably require in its sole discretion.

ARTICLE IV PERFORMANCE AWARDS

Section 4.1. *Terms and Conditions of Performance Awards.* The Committee may from time to time grant Awards that are intended to be "performance-based compensation," which are payable in stock, cash or a combination thereof, at the discretion of the Committee.

(a) Performance Period. The Committee shall establish a Performance Period for each Performance Award at the time such Performance Award is granted. A Performance Period may overlap with Performance Periods relating to other Performance Awards granted hereunder to the same Participant. The Committee shall not grant Performance Awards to Section 162(m) Participants after the earliest to occur of (i) the 90th day after the start of the Performance Period, (ii) the date on which 25% of the Performance Period has elapsed or (iii) the date on which the satisfaction of the Performance Objectives becomes substantially certain.

(b) Performance Objectives. The Committee shall establish written performance objectives for the Participant at the time of the grant of each Performance Award. Each Performance Award shall be contingent upon the achievement of the Performance Objectives established by the Committee. Performance Objectives shall be based on earnings, cash flow, economic value added, total stockholder return, return on equity, return on capital, return on assets, revenues, operating profit, EBITDA, net profit, earnings per share, stock price, cost reduction goals, debt to capital ratio, financial return ratios, profit or operating margins, working capital or any combination of the foregoing, for the Company on a consolidated basis or, if applicable, for one or more Subsidiaries, divisions, departments or other units of the Company or one or more of its Subsidiaries.

(c) Amount; Frequency. The Committee shall determine at the time of grant of Performance Awards the target and maximum values of Performance Awards and the date or dates when Performance Awards are earned.

(d) Payment. Following the end of each Performance Period, the holder of each Performance Award will be entitled to receive payment of an amount, not exceeding the maximum value of the Performance Award, based on the achievement of the Performance Objectives for such Performance Period, as determined in writing by the Committee. Unless otherwise provided in the Performance Award, if the Participant exceeds the specified minimum level of acceptable achievement but does not attain the Performance Objectives, the Participant shall be deemed to have partly earned the Performance Award, and shall become entitled to receive a portion of the total award, as determined by the Committee. Unless otherwise provided in the Performance Award, if a Performance Award is granted after the start of a Performance Period, the Performance Award shall be reduced to reflect the portion of the Performance Period during which the Performance Award was in effect.

(e) Termination of Employment. Unless otherwise provided in the Performance Award, a Participant who receives a Performance Award and who ceases to be an Employee as a result of death, Disability or retirement before the end of the applicable Performance Period shall be entitled to receive, to the extent earned as a result of the full or partial achievement of the Performance Objectives during the Performance Period, a portion of the Performance Award that is proportional to the portion of the Performance Period during which the Participant was employed, with payment to be made following the end of the Performance Period. Unless otherwise provided in the Performance Award, a Participant who receives a Performance Award who ceases to be an Employee for any reason other than death, Disability or retirement shall not be entitled to any part of the Performance Award.

(f) Accelerated Vesting. Notwithstanding the vesting conditions set forth in a Performance Award, unless the Performance Award specifies otherwise (i) the Committee may in its discretion at any time accelerate the time at which the Performance Award is considered to have been earned or otherwise waive or amend any conditions (including but not limited to Performance Objectives) in respect of a Performance Award, and (ii) all Performance Awards shall be considered earned upon a Change in Control of the Company. In addition, upon a Change in Control of the Company, unless a Performance Award specifies otherwise, each Participant shall receive the target Performance Award such Participant could have earned for the proportionate part of the Performance Period prior to the Change in Control, and shall retain the right to earn any additional portion of his or her Performance Award if such Participant remains in the Company's employ through the end of the Performance Period.

(g) Stockholder Rights. The holder of a Performance Award shall, as such, have none of the rights of a stockholder of the Company.

(h) Annual Incentive Plan. Cash awards based on the attainment of the performance objectives established under the Company's Annual Incentive Plan may, in the Committee's discretion, be considered Performance Awards granted under the Plan, provided that such awards are subject to the terms and conditions of this Article IV.

ARTICLE V ADDITIONAL PROVISIONS

Section 5.1. *Administration of the Plan.* The Plan shall be administered by the Committee. The Committee shall have the authority to interpret the provisions of the Plan, to adopt such rules and regulations for carrying out the Plan as it may deem advisable, to decide conclusively all questions arising with respect to the Plan, to establish performance criteria in respect of Awards under the Plan, to determine whether Plan requirements have been met for any Participant in the Plan and to make all other determinations and take all other actions necessary or desirable for the administration of the Plan. All decisions and acts of the Committee shall be final and binding upon all affected Participants. If there is no Committee, the Board shall administer the Plan and in such case all references to the Committee shall be deemed to be references to the Board.

Section 5.2. *Adjustments for Changes in Capitalization.* In the event of any (a) stock dividends, stock splits, recapitalizations, combinations, exchanges of shares, mergers, consolidations, liquidations, split-ups, split-offs, spin-offs or other similar changes in capitalization, (b) distributions to stockholders, including a rights offering, other than regular cash dividends, (c) changes in the outstanding stock of the Company by reason of any increase or decrease in the number of issued Shares resulting from a split-up or consolidation of Shares or any similar capital adjustment or the payment of any stock dividend, (d) Share repurchase at a price in excess of the market price of the Shares at the time such repurchase is announced or (e) other similar increase or decrease in the number of the Shares, the Committee, in its sole discretion, shall make appropriate adjustment in the number and kind of shares authorized by the Plan in the number, price or kind of shares covered by the Awards and in any outstanding Awards under the Plan. In addition, upon the occurrence of any event described in this Section 5.2, the Committee, in its sole discretion, shall make appropriate adjustment in the limits specified in Section 1.3(b), (c) and (d) so that the effect of such limits is, as nearly as practicable, equivalent to the effect of such limits prior to the event in question, provided that any such adjustment complies with applicable laws and does not cause an award that is intended to satisfy the performance-based compensation exception under Section 162(m) of the Code to fail to satisfy the exception. In the event of any adjustment in the number of Shares covered by any Award, any fractional Shares resulting from such adjustment shall be disregarded and each such Award shall cover only the number of full Shares resulting from such adjustment.

Section 5.3. *Amendment.*

(a) The Board may amend or modify the Plan in any respect at any time, subject to stockholder approval if required by applicable law or regulation or by applicable stock exchange rules. Such action shall not impair any of the rights of any Participant with respect to any Award outstanding on the date of the amendment or modification without the Participant's written consent.

(b) The Committee shall have the authority to amend any Award to include any provision which, at the time of such amendment, is authorized under the terms of the Plan; however, no outstanding Award may be revoked or altered in a manner unfavorable to the Participant without the written consent of the Participant.

Section 5.4. *Transferability of Awards.* An Award shall not be transferable by the Participant otherwise than by will or the laws of descent and distribution. So long as a Participant lives, only such Participant or his or her guardian or legal representative shall have the right to exercise such Award.

Section 5.5. *Beneficiary.* A Participant may file with the Company a written designation of beneficiary, on such form as may be prescribed by the Committee, to receive any Shares, Awards or payments that become deliverable to the Participant pursuant to the Plan after the Participant's death. A Participant may, from time to time, amend or revoke a designation of beneficiary. If no designated beneficiary survives the Participant, the executor or administrator of the Participant's estate shall be deemed to be the Participant's beneficiary.

Section 5.6. *Non-uniform Determinations.* Determinations by the Committee under the Plan (including, without limitation, determinations of the Eligible Persons to receive Awards, the form, amount and timing of Awards, the terms and provisions of Awards and the agreements evidencing Awards and provisions with respect to termination of employment) need not be uniform and may be made by the Committee selectively among persons who receive, or are eligible to receive, Awards under the Plan, whether or not such persons are similarly situated.

Section 5.7. *Duration and Termination.* No awards shall be made under the Plan after April 23, 2022, provided that no Incentive Stock Option shall be granted under the Plan on or after the tenth anniversary of the effective date of the Plan. The Board may suspend, discontinue or terminate the Plan at any time. The suspension, discontinuance or termination of the Plan shall not impair any of the rights of any holder of any Award outstanding on the date of the Plan's suspension, discontinuance or termination without the holder's written consent.

Section 5.8. *Withholding.* Prior to the issuance of any Shares under the Plan, arrangements satisfactory to the Committee in its sole discretion shall have been made for the Participant's payment to the Company of the amount, if any, that the Committee determines to be necessary for the Company or Subsidiary employing the Participant to withhold in accordance with applicable federal or state income tax withholding requirements. If the Committee allows Shares to be withheld from an Award to satisfy such withholding requirements, the amount withheld in Shares shall not exceed the minimum amount required to be withheld, determined on the date that the amount of tax to be withheld is to be determined. When payments under the Plan are made in cash, such payments shall be net of an amount sufficient to satisfy such withholding requirements.

Section 5.9. *Agreements and Undertakings.* As a condition of any issuance or transfer of Shares, the Committee may obtain such agreements or undertakings, if any, as it may deem necessary or advisable to assure compliance with any provision of the Plan, any agreement or any law or regulation including, but not limited to, the following:

(a) a representation, warranty or agreement by the Participant to the Company that the Participant is acquiring the Shares for investment and not with a view to, or for sale in connection with, the distribution of any such Shares; and

(b) a representation, warranty or agreement to be bound by any restrictions that are, in the opinion of the Committee, necessary or appropriate to comply with the provisions of any securities law deemed by the Committee to be applicable to the issuance of the Shares.

Section 5.10. *Uncertificated Shares.* In lieu of issuing stock certificates for Shares acquired pursuant to the Plan, the Company may issue such Shares in book-entry or other electronic or uncertificated form, unless prohibited by applicable law or regulation or by applicable stock exchange rules.

Section 5.11. *Governing Law.* The Plan shall be governed by the laws of the State of Texas except to the extent that federal law or Nevada corporate law is controlling.

Section 5.12. *Effective Date.* The Plan amends and restates the Existing Plan in its entirety, effective October 28, 2016.

Certification of Chief Executive Officer

In connection with the filing of the Quarterly Report on Form 10-Q for the quarter ended September 30, 2016 by Kirby Corporation, David W. Grzebinski certifies that:

1. I have reviewed this report on Form 10-Q of Kirby Corporation (the “registrant”);
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant’s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant’s internal control over financial reporting that occurred during the registrant’s most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant’s internal control over financial reporting; and
5. The registrant’s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant’s auditors and the audit committee of the registrant’s board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant’s ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant’s internal control over financial reporting.

/S/ DAVID W. GRZEBINSKI

David W. Grzebinski
President and Chief Executive Officer

Dated: November 3, 2016

Certification of Chief Financial Officer

In connection with the filing of the Quarterly Report on Form 10-Q for the quarter ended September 30, 2016 by Kirby Corporation, C. Andrew Smith certifies that:

1. I have reviewed this report on Form 10-Q of Kirby Corporation (the “registrant”);
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant’s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant’s internal control over financial reporting that occurred during the registrant’s most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant’s internal control over financial reporting; and
5. The registrant’s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant’s auditors and the audit committee of the registrant’s board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant’s ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant’s internal control over financial reporting.

/S/ C. ANDREW SMITH

C. Andrew Smith
*Executive Vice President and
Chief Financial Officer*

Dated: November 3, 2016

Certification Pursuant to Section 18 U.S.C. Section 1350

In connection with the filing of the Quarterly Report on Form 10-Q for the quarter ended September 30, 2016 (the "Report") by Kirby Corporation (the "Company"), each of the undersigned hereby certifies that:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/S/ DAVID W. GRZEBINSKI

David W. Grzebinski
President and Chief Executive Officer

/S/ C. ANDREW SMITH

C. Andrew Smith
*Executive Vice President and
Chief Financial Officer*

Dated: November 3, 2016
