
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 quarter ended September 30, 2016

Commission file number 1-5467

VALHI, INC.

(Exact name of Registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

87-0110150
(IRS Employer
Identification No.)

5430 LBJ Freeway, Suite 1700, Dallas, Texas
(Address of principal executive offices)

75240-2697
(Zip Code)

Registrant's telephone number, including area code: (972) 233-1700

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

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 Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Whether the Registrant is a large accelerated filer, an accelerated filer or a non-accelerated filer or a smaller reporting company (as defined in Rule 12b-2 of the Act).

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

Whether the Registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No .

Number of shares of the Registrant's common stock outstanding on November 4, 2016: 339,158,949

VALHI, INC. AND SUBSIDIARIES

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Items 2, 3, 4 and 5 of Part II are omitted because there is no information to report.

VALHI, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS
(In millions)

	<u>December 31,</u> <u>2015</u>	<u>September 30,</u> <u>2016</u> (unaudited)
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 202.3	\$ 205.0
Restricted cash equivalents	7.2	7.3
Marketable securities	2.0	.7
Accounts and other receivables, net	246.6	302.1
Inventories, net	405.2	334.1
Land held for development	9.9	16.1
Other current assets	23.0	27.1
Total current assets	<u>896.2</u>	<u>892.4</u>
Other assets:		
Marketable securities	254.9	256.2
Investment in TiO ₂ manufacturing joint venture, Louisiana Pigment Company, L.P. ("LPC")	82.9	79.8
Goodwill	379.7	379.7
Deferred income taxes	1.3	1.3
Other noncurrent assets	256.7	248.4
Total other assets	<u>975.5</u>	<u>965.4</u>
Property and equipment:		
Land	45.4	46.9
Buildings	239.7	246.5
Treatment, storage and disposal facility	159.5	159.5
Equipment	1,061.6	1,094.0
Mining properties	35.5	40.6
Construction in progress	33.1	52.0
	<u>1,574.8</u>	<u>1,639.5</u>
Less accumulated depreciation	909.1	967.3
Net property and equipment	<u>665.7</u>	<u>672.2</u>
Total assets	<u>\$ 2,537.4</u>	<u>\$ 2,530.0</u>

VALHI, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS (CONTINUED)
(In millions)

	<u>December 31,</u> <u>2015</u>	<u>September 30,</u> <u>2016</u> (unaudited)
LIABILITIES AND EQUITY		
Current liabilities:		
Current maturities of long-term debt	\$ 9.5	\$ 26.9
Accounts payable and accrued liabilities	271.4	274.0
Income taxes	5.7	5.4
Total current liabilities	<u>286.6</u>	<u>306.3</u>
Noncurrent liabilities:		
Long-term debt	951.0	971.1
Deferred income taxes	321.0	310.5
Accrued pension costs	216.8	216.9
Accrued environmental remediation and related costs	108.7	107.6
Accrued postretirement benefits costs	11.8	11.8
Other liabilities	114.6	108.6
Total noncurrent liabilities	<u>1,723.9</u>	<u>1,726.5</u>
Equity:		
Valhi stockholders' equity:		
Preferred stock	667.3	667.3
Common stock	3.6	3.6
Additional paid-in capital	—	—
Retained deficit	(155.6)	(200.8)
Accumulated other comprehensive loss	(197.0)	(182.7)
Treasury stock	(49.6)	(49.6)
Total Valhi stockholders' equity	<u>268.7</u>	<u>237.8</u>
Noncontrolling interest in subsidiaries	258.2	259.4
Total equity	<u>526.9</u>	<u>497.2</u>
Total liabilities and equity	<u>\$ 2,537.4</u>	<u>\$ 2,530.0</u>

Commitments and contingencies (Notes 13 and 16)

See accompanying Notes to Condensed Consolidated Financial Statements.

VALHI, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(In millions, except per share data)

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(unaudited)			
Revenues and other income:				
Net sales	\$ 383.2	\$ 406.8	\$ 1,208.1	\$ 1,158.9
Other income, net	5.9	6.2	25.4	28.3
Total revenues and other income	<u>389.1</u>	<u>413.0</u>	<u>1,233.5</u>	<u>1,187.2</u>
Costs and expenses:				
Cost of sales	333.4	321.5	1,012.7	969.4
Selling, general and administrative	64.1	64.0	207.3	191.8
Contract related intangible asset impairment	—	—	—	5.1
Interest	14.4	15.9	43.5	47.4
Total costs and expenses	<u>411.9</u>	<u>401.4</u>	<u>1,263.5</u>	<u>1,213.7</u>
Income (loss) before income taxes	(22.8)	11.6	(30.0)	(26.5)
Income tax expense (benefit)	(9.5)	2.6	105.4	(5.8)
Net income (loss)	(13.3)	9.0	(135.4)	(20.7)
Noncontrolling interest in net income (loss) of subsidiaries	(1.6)	6.0	(31.7)	4.3
Net income (loss) attributable to Valhi stockholders	<u>\$ (11.7)</u>	<u>\$ 3.0</u>	<u>\$ (103.7)</u>	<u>\$ (25.0)</u>
Amounts attributable to Valhi stockholders:				
Basic and diluted net income (loss) per share	<u>\$ (.03)</u>	<u>\$.01</u>	<u>\$ (.30)</u>	<u>\$ (.07)</u>
Cash dividends per share	<u>\$.02</u>	<u>\$.02</u>	<u>\$.06</u>	<u>\$.06</u>
Basic and diluted weighted average shares outstanding	<u>342.0</u>	<u>342.0</u>	<u>342.0</u>	<u>342.0</u>

See accompanying Notes to Condensed Consolidated Financial Statements.

VALHI, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)
(In millions)

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(unaudited)			
Net income (loss)	\$ (13.3)	\$ 9.0	\$ (135.4)	\$ (20.7)
Other comprehensive income (loss), net of tax:				
Currency translation	(13.5)	7.5	(66.4)	15.3
Marketable securities	(5.4)	1.4	(6.8)	1.9
Interest rate swap	(3.1)	.6	(3.1)	(2.4)
Defined benefit pension plans	2.9	2.6	9.4	7.8
Other postretirement benefit plans	(.3)	(.3)	(.9)	(.9)
Total other comprehensive income (loss), net	(19.4)	11.8	(67.8)	21.7
Comprehensive income (loss)	(32.7)	20.8	(203.2)	1.0
Comprehensive income (loss) attributable to noncontrolling interest	(11.0)	10.3	(54.8)	11.7
Comprehensive income (loss) attributable to Valhi stockholders	\$ (21.7)	\$ 10.5	\$ (148.4)	\$ (10.7)

See accompanying Notes to Condensed Consolidated Financial Statements.

VALHI, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(In millions)

	Nine months ended September 30,	
	2015	2016
	(unaudited)	
Cash flows from operating activities:		
Net loss	\$ (135.4)	\$ (20.7)
Depreciation and amortization	53.2	51.0
Benefit plan expense greater than cash funding	2.5	3.2
Deferred income taxes	90.2	(15.5)
Distributions from TiO2 manufacturing joint venture, net	7.6	3.1
Contract related intangible asset impairment	—	5.1
Other, net	9.4	.2
Change in assets and liabilities:		
Accounts and other receivables, net	(2.9)	(46.3)
Inventories, net	2.5	81.9
Land held for development, net	6.3	1.1
Accounts payable and accrued liabilities	.4	(1.8)
Accounts with affiliates	17.1	(11.9)
Income taxes	(2)	(1)
Other, net	(17.6)	(9.6)
Net cash provided by operating activities	<u>33.1</u>	<u>39.7</u>
Cash flows from investing activities:		
Capital expenditures	(36.4)	(38.7)
Capitalized permit costs	(.9)	(1.0)
Purchases of marketable securities	(10.6)	(6.0)
Disposals of marketable securities	10.9	6.3
Change in restricted cash equivalents, net	(1.2)	(3.2)
Other, net	.2	(.6)
Net cash used in investing activities	<u>(38.0)</u>	<u>(43.2)</u>
Cash flows from financing activities:		
Indebtedness:		
Borrowings	58.6	255.9
Principal payments	(39.7)	(219.9)
Valhi cash dividends paid	(20.4)	(20.4)
Distributions to noncontrolling interest in subsidiaries	(10.8)	(10.4)
Other	.1	—
Net cash provided by (used in) financing activities	<u>(12.2)</u>	<u>5.2</u>
Cash and cash equivalents – net change from:		
Operating, investing and financing activities	(17.1)	1.7
Effect of exchange rate on cash	(6.3)	1.0
Cash and cash equivalents at beginning of period	255.8	202.3
Cash and cash equivalents at end of period	<u>\$ 232.4</u>	<u>\$ 205.0</u>
Supplemental disclosures:		
Cash paid for:		
Interest, net of capitalized interest	\$ 41.5	\$ 45.2
Income taxes, net	11.7	6.9
Noncash investing activities:		
Change in accruals for capital expenditures	3.1	4.8

See accompanying Notes to Condensed Consolidated Financial Statements.

VALHI, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENT OF EQUITY
Nine months ended September 30, 2016
(In millions)
(unaudited)

	Valhi Stockholders' Equity							Total equity
	Preferred stock	Common stock	Additional paid-in capital	Retained deficit	Accumulated other comprehensive income (loss)	Treasury stock	Non-controlling interest	
Balance at December 31, 2015	\$ 667.3	\$ 3.6	\$ —	\$ (155.6)	\$ (197.0)	\$ (49.6)	\$ 258.2	\$ 526.9
Net income (loss)	—	—	—	(25.0)	—	—	4.3	(20.7)
Other comprehensive income, net	—	—	—	—	14.3	—	7.4	21.7
Dividends	—	—	(2)	(20.2)	—	—	(10.4)	(30.8)
Other, net	—	—	.2	—	—	—	(.1)	.1
Balance at September 30, 2016	<u>\$ 667.3</u>	<u>\$ 3.6</u>	<u>\$ —</u>	<u>\$ (200.8)</u>	<u>\$ (182.7)</u>	<u>\$ (49.6)</u>	<u>\$ 259.4</u>	<u>\$ 497.2</u>

See accompanying Notes to Condensed Consolidated Financial Statements.

VALHI, INC. AND SUBSIDIARIES
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
September 30, 2016
(unaudited)

Note 1—Organization and basis of presentation:

Organization— We are majority owned by a wholly-owned subsidiary of Contran Corporation (“Contran”), which owns approximately 93% of our outstanding common stock at September 30, 2016. All of Contran's outstanding voting stock is held by a family trust established for the benefit of Lisa K. Simmons and Serena Simmons Connelly and their children, for which Ms. Simmons and Ms. Connelly are co-trustees, or is held directly by Ms. Simmons and Ms. Connelly or entities related to them. Consequently, Ms. Simmons and Ms. Connelly may be deemed to control Contran and us.

Basis of Presentation—Consolidated in this Quarterly Report are the results of our majority-owned and wholly-owned subsidiaries, including NL Industries, Inc., Kronos Worldwide, Inc., CompX International Inc., Waste Control Specialists LLC (“WCS”), Tremont LLC, Basic Management, Inc. (“BMI”) and The LandWell Company (“LandWell”). Kronos (NYSE: KRO), NL (NYSE: NL), and CompX (NYSE MKT: CIX) each file periodic reports with the Securities and Exchange Commission (“SEC”).

The unaudited Condensed Consolidated Financial Statements contained in this Quarterly Report have been prepared on the same basis as the audited Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2015 that we filed with the SEC on March 11, 2016 (the “2015 Annual Report”). In our opinion, we have made all necessary adjustments (which include only normal recurring adjustments) in order to state fairly, in all material respects, our consolidated financial position, results of operations and cash flows as of the dates and for the periods presented. We have condensed the Consolidated Balance Sheet at December 31, 2015 contained in this Quarterly Report as compared to our audited Consolidated Financial Statements at that date, and we have omitted certain information and footnote disclosures (including those related to the Consolidated Balance Sheet at December 31, 2015) normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America (“GAAP”). Our results of operations for the interim periods ended September 30, 2016 may not be indicative of our operating results for the full year. The Condensed Consolidated Financial Statements contained in this Quarterly Report should be read in conjunction with our 2015 Consolidated Financial Statements contained in our 2015 Annual Report.

Unless otherwise indicated, references in this report to “we,” “us” or “our” refer to Valhi, Inc and its subsidiaries (NYSE: VHI), taken as a whole.

Note 2—Business segment information:

Business segment	Entity	% controlled at September 30, 2016
Chemicals	Kronos	80%
Component products	CompX	87%
Waste management	WCS	100%
Real estate management and development	BMI and LandWell	63% - 77%

Our control of Kronos includes 50% we hold directly and 30% held directly by NL. We own 83% of NL. Our control of CompX is through NL. We own 63% of BMI. Our control of LandWell includes the 27% we hold directly and 50% held by BMI.

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(unaudited) (In millions)			
Net sales:				
Chemicals	\$ 336.5	\$ 356.1	\$ 1,061.8	\$ 1,030.6
Component products	26.5	28.4	83.3	82.6
Waste management	9.9	13.6	34.9	29.9
Real estate management and development	10.3	8.7	28.1	15.8
Total net sales	<u>\$ 383.2</u>	<u>\$ 406.8</u>	<u>\$ 1,208.1</u>	<u>\$ 1,158.9</u>
Cost of sales:				
Chemicals	\$ 293.7	\$ 281.1	\$ 896.1	\$ 860.6
Component products	18.4	19.0	57.5	56.5
Waste management	13.3	14.1	37.8	39.4
Real estate management and development	8.0	7.3	21.3	12.9
Total cost of sales	<u>\$ 333.4</u>	<u>\$ 321.5</u>	<u>\$ 1,012.7</u>	<u>\$ 969.4</u>
Gross margin:				
Chemicals	\$ 42.8	\$ 75.0	\$ 165.7	\$ 170.0
Component products	8.1	9.4	25.8	26.1
Waste management	(3.4)	(.5)	(2.9)	(9.5)
Real estate management and development	2.3	1.4	6.8	2.9
Total gross margin	<u>\$ 49.8</u>	<u>\$ 85.3</u>	<u>\$ 195.4</u>	<u>\$ 189.5</u>
Operating income (loss):				
Chemicals	\$ (1.3)	\$ 30.1	\$ 24.8	\$ 45.8
Component products	3.4	4.4	11.4	11.5
Waste management	(8.3)	(5.1)	(19.3)	(23.0)
Real estate management and development	1.2	.3	2.6	(5.1)
Total operating income (loss)	(5.0)	29.7	19.5	29.2
General corporate items:				
Securities earnings	6.5	6.8	19.9	20.5
Insurance recoveries	.1	.1	3.5	.4
General expenses, net	(10.0)	(9.1)	(29.4)	(29.2)
Interest expense	(14.4)	(15.9)	(43.5)	(47.4)
Income (loss) before income taxes	<u>\$ (22.8)</u>	<u>\$ 11.6</u>	<u>\$ (30.0)</u>	<u>\$ (26.5)</u>

Segment results we report may differ from amounts separately reported by our various subsidiaries due to purchase accounting adjustments and related amortization or differences in the way we define operating income. Intersegment sales are not material. Our Real Estate Management and Development Segment's operating loss in the first nine months of 2016 includes a first quarter \$5.1 million contract related intangible asset impairment which is included in the determination of its operating income, see Note 7. Our Chemicals Segment's operating income in the first nine months of 2016 includes \$3.4 million in business interruption insurance proceeds which is included in the determination of its operating income, see Note 12.

Note 3—Business disposition — Waste Control Specialists LLC:

On November 18, 2015, we entered into an agreement with Rockwell Holdco, Inc. ("Rockwell"), for the sale of WCS to Rockwell for \$270 million in cash, \$20 million face amount in Series A Preferred Stock of Rockwell plus the assumption of all of WCS' third-party indebtedness incurred prior to the date of the agreement. Additionally, Rockwell and its affiliates will assume all financial assurance obligations related to the WCS business. Rockwell is the parent company of EnergySolutions, Inc. Completion of the sale is subject to certain customary closing conditions, including the receipt of U.S. anti-trust approval. Assuming all closing conditions are satisfied, the sale is expected to close in the first half of 2017. There can be no assurance, however, that all closing conditions will be satisfied, or that any such sale of WCS would be completed. Due to, among other things, the size of our WCS business relative to our other businesses in terms of both net sales and asset size, the disposal of WCS would not constitute a strategic shift that would have a major effect on our consolidated operations and financial results under the guidance in ACS 205-20. Accordingly, assuming the sale of WCS is completed, WCS would not be presented as discontinued operations in our Condensed Consolidated Financial Statements. See Note 2 for additional information regarding the operations of the Waste Management Segment. Significant items included in our Condensed Consolidated Balance Sheets related to WCS at December 31, 2015 and September 30, 2016 included:

	December 31, 2015	September 30, 2016
(In millions)		
ASSETS		
Current assets	\$ 10.1	\$ 13.9
Operating permits	48.1	44.2
Restricted cash	16.2	20.3
Property and equipment, net	150.0	141.5
LIABILITIES		
Current portion of long-term debt	\$ 4.9	\$ 4.0
Payable to Contran	26.1	30.0
Long-term debt	71.4	68.9
Accrued noncurrent closure and post closure costs	27.4	29.0

Note 4—Marketable securities:

	Market value	Cost basis	Unrealized losses, net
(In millions)			
December 31, 2015:			
Current assets	\$ 2.0	\$ 2.0	\$ —
Noncurrent assets:			
The Amalgamated Sugar Company LLC	\$ 250.0	\$ 250.0	\$ —
Other	4.9	5.1	(.2)
Total	\$ 254.9	\$ 255.1	\$ (.2)
September 30, 2016:			
Current assets	\$.7	\$.7	\$ —
Noncurrent assets:			
The Amalgamated Sugar Company LLC	\$ 250.0	\$ 250.0	\$ —
Other	6.2	6.3	(.1)
Total	\$ 256.2	\$ 256.3	\$ (.1)

All of our marketable securities are accounted for as available-for-sale, which are carried at fair value, with any unrealized gains or losses recognized through accumulated other comprehensive income. Our marketable securities are carried at fair value using quoted market prices, primarily Level 1 inputs as defined by ASC Topic 820, *Fair Value Measurements and Disclosures*, except for our investment in The Amalgamated Sugar Company LLC ("Amalgamated"). Our investment in Amalgamated is measured using significant unobservable inputs, which are Level 3 inputs. Please refer to Note 4 in our 2015 Annual Report for a complete description of the valuation methodology for our investment in Amalgamated. There have been no changes to the carrying value of this investment during the periods presented. See Note 17.

Note 5—Accounts and other receivables, net:

	December 31, 2015	September 30, 2016
(In millions)		
Trade accounts receivable:		
Kronos	\$ 194.8	\$ 238.8
CompX	8.8	13.1
WCS	5.2	10.9
BMI and LandWell	1.2	1.3
VAT and other receivables	20.1	16.5
Refundable income taxes	7.4	4.9
Receivable from affiliates:		
Contran – trade items	.2	.3
Contran – income taxes	7.6	5.9
Other – trade items	2.5	11.7
Allowance for doubtful accounts	(1.2)	(1.3)
Total	<u>\$ 246.6</u>	<u>\$ 302.1</u>

Note 6—Inventories, net:

	December 31, 2015	September 30, 2016
(In millions)		
Raw materials:		
Chemicals	\$ 75.9	\$ 60.1
Component products	2.8	2.7
Total raw materials	<u>78.7</u>	<u>62.8</u>
Work in process:		
Chemicals	21.1	25.4
Component products	9.3	9.1
Total in-process products	<u>30.4</u>	<u>34.5</u>
Finished products:		
Chemicals	233.1	171.3
Component products	3.0	2.8
Total finished products	<u>236.1</u>	<u>174.1</u>
Supplies (primarily chemicals)	60.0	62.7
Total	<u>\$ 405.2</u>	<u>\$ 334.1</u>

Note 7—Other noncurrent assets:

	December 31, 2015	September 30, 2016
(In millions)		
Other noncurrent assets:		
Land held for development	\$ 157.2	\$ 150.8
Waste disposal site operating permits, net	48.1	44.2
Restricted cash	19.6	22.9
IBNR receivables	7.0	7.2
Capital lease deposit	6.2	6.2
Intangible assets	5.1	—
Pension asset	1.7	1.9
Other	11.8	15.2
Total	<u>\$ 256.7</u>	<u>\$ 248.4</u>

Upon acquiring a controlling interest in our Real Estate Management and Development Segment in December 2013, we recognized an indefinite-lived customer relationship intangible asset of \$5.1 million for long-term contracts related to water delivery services to the City of Henderson, Nevada and various other users through a water system owned by BMI. Aggregate revenues associated with water delivered under the City of Henderson contract have historically represented approximately 70% of the

Segment's aggregate water delivery revenues. These contracts generally span many years and feature automatic renewing provisions. The initial City of Henderson water delivery contract extended for a period of 25 years, and contained an automatic renewal provision. In January 2016, the water delivery contract with the City of Henderson was amended. As part of such amendment, required minimum volumes were reduced, pricing was lowered, the automatic renewal provision of the contract was eliminated, and the contract term now runs through June 2040. The amendment to the City of Henderson water delivery contract represents an event or circumstance which triggered the need to perform a quantitative impairment analysis with respect to the intangible asset in the first quarter of 2016, in accordance with the guidance in ASC 350-30-35. Accordingly, as a result of a quantitative impairment analysis performed in the first quarter of 2016 we have concluded that the \$5.1 million contract related intangible asset primarily related to the City of Henderson water delivery contract has been fully impaired as a result of the amended contract (with its reduced minimum volumes and lower pricing), and we recognized an aggregate \$5.1 million contract related intangible impairment loss in the first quarter of 2016.

Note 8—Accounts payable and accrued liabilities:

	December 31, 2015	September 30, 2016
(In millions)		
Accounts payable:		
Kronos	\$ 96.1	\$ 81.2
CompX	2.7	3.5
WCS	1.3	1.0
BMI and LandWell	2.1	3.6
Other	2.6	2.4
Payable to affiliates:		
Contran – trade items	26.1	30.0
LPC – trade items	19.4	12.7
Accrued liabilities:		
Employee benefits	24.7	31.1
Deferred income	21.8	23.2
Sales discounts and rebates	23.9	22.4
Environmental remediation and related costs	11.7	16.5
Reserve for uncertain tax positions	—	3.3
Workforce reduction costs	5.3	3.0
Interest rate swap	3.3	3.3
Other	30.4	36.8
Total	\$ 271.4	\$ 274.0

During the first nine months of 2016, Kronos made an aggregate of \$2.4 million in payments with respect to workforce reduction costs accrued as of December 31, 2015. See Note 17 for a discussion of the interest rate swap contract.

Note 9—Other noncurrent liabilities:

	December 31, 2015	September 30, 2016
(In millions)		
Reserve for uncertain tax positions	\$ 32.9	\$ 29.2
Asset retirement obligations	28.8	30.3
Deferred income	20.2	11.7
Employee benefits	7.1	7.1
Insurance claims and expenses	9.6	9.7
Deferred payment obligation	8.8	9.0
Interest rate swap	.2	4.8
Other	7.0	6.8
Total	\$ 114.6	\$ 108.6

Note 10—Long-term debt:

	December 31, 2015	September 30, 2016
(In millions)		
Valhi:		
Snake River Sugar Company	\$ 250.0	\$ 250.0
Contran credit facility	263.8	288.3
Total Valhi debt	<u>513.8</u>	<u>538.3</u>
Subsidiary debt:		
Kronos:		
Term loan	338.0	336.4
Revolving North American credit facility	—	18.5
WCS:		
Financing capital lease	65.6	64.4
Tremont:		
Promissory note payable	17.1	17.1
BMI:		
Bank note payable	9.3	8.6
LandWell:		
Note payable to the City of Henderson	3.1	3.1
Other	13.6	11.6
Total subsidiary debt	<u>446.7</u>	<u>459.7</u>
Total debt	960.5	998.0
Less current maturities	9.5	26.9
Total long-term debt	<u>\$ 951.0</u>	<u>\$ 971.1</u>

Valhi – Contran credit facility – During the first nine months of 2016, we had net borrowings of \$24.5 million under our Contran credit facility. The average interest rate on the existing balance as of and for the nine months ended September 30, 2016 was 4.5%. At September 30, 2016, the equivalent of \$36.7 million was available for borrowing under this facility, subject to Contran’s discretion.

Kronos – Term loan – During the first nine months of 2016, Kronos made its required quarterly term loan principal payments aggregating \$2.6 million. The average interest rate on the term loan borrowings as of and for the nine months ended September 30, 2016 was 4.0%. The carrying value of the term loan at September 30, 2016 is stated net of unamortized original issue discount of \$1.0 million and debt issuance costs of \$3.8 million. See Note 17 for a discussion of the interest rate swap Kronos entered into in 2015 pursuant to its interest rate risk strategy.

Revolving credit facilities – Kronos’ European revolving credit facility requires the maintenance of certain financial ratios, and one of such requirements is based on the ratio of net debt to last twelve months earnings before income tax, interest, depreciation and amortization expense (“EBITDA”) of the borrowers. Based upon the borrowers’ last twelve months EBITDA as of September 30, 2016 and the net debt to EBITDA financial test, Kronos’ borrowing availability at September 30, 2016 is approximately 22% of the credit facility, €26.4 million (\$29.6 million). During the first nine months of 2016, Kronos borrowed a net \$18.5 million under its North American revolving credit facility. The average interest rate on outstanding borrowings as of and for the nine months ended September 30, 2016 was 4.25% and 4.13%, respectively. In addition, at September 30, 2016 Kronos had approximately \$57.4 million available for borrowing under its North American revolving facility.

Restrictions and other – Certain of the credit facilities with unrelated, third-party lenders described above require the respective borrowers to maintain minimum levels of equity, require the maintenance of certain financial ratios, limit dividends and additional indebtedness and contain other provisions and restrictive covenants customary in lending transactions of this type. We are in compliance with all of our debt covenants at September 30, 2016.

Note 11—Employee benefit plans:

Defined benefit plans – The components of our net periodic defined benefit pension cost are presented in the table below.

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(In millions)			
Service cost	\$ 2.8	\$ 2.5	\$ 8.4	\$ 7.5
Interest cost	4.4	4.5	13.4	13.4
Expected return on plan assets	(5.2)	(4.6)	(15.9)	(13.8)
Amortization of unrecognized prior service cost	.2	.1	.6	.2
Recognized actuarial losses	3.7	3.3	11.3	10.2
Total	<u>\$ 5.9</u>	<u>\$ 5.8</u>	<u>\$ 17.8</u>	<u>\$ 17.5</u>

Other postretirement benefits – The components of our net periodic other postretirement benefit cost are presented in the table below.

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(In millions)			
Service cost	\$ —	\$.1	\$.1	\$.1
Interest cost	.2	.2	.4	.4
Amortization of prior service credit	(.5)	(.5)	(1.4)	(1.4)
Recognized actuarial gains	—	(.1)	(.1)	(.1)
Total	<u>\$ (.3)</u>	<u>\$ (.3)</u>	<u>\$ (1.0)</u>	<u>\$ (1.0)</u>

Contributions – We expect to contribute the equivalent of \$15.8 million and \$1.1 million, respectively, to all of our defined benefit pension plans and other postretirement benefit plans during 2016.

Note 12—Other income, net:

	Nine months ended September 30,	
	2015	2016
	(In millions)	
Securities earnings:		
Dividends and interest	\$ 19.8	\$ 20.3
Securities transactions, net	.1	.2
Total	19.9	20.5
Currency transactions, net	.6	3.2
Insurance recoveries	3.5	.4
Business interruption insurance proceeds	—	3.4
Other, net	1.4	.8
Total	<u>\$ 25.4</u>	<u>\$ 28.3</u>

Insurance recoveries reflect, in part, amounts NL received from certain of its former insurance carriers and relate to the recovery of prior lead pigment and asbestos litigation defense costs incurred by NL.

We recognized \$3.4 million in income related to cash Kronos received in the first nine months of 2016 from settlement of a business interruption insurance claim arising in 2014. No additional material amounts are expected to be received with respect to such insurance claim.

Note 13—Income taxes:

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
(In millions)				
Expected tax expense (benefit), at U.S. federal statutory income tax rate of 35%	\$ (8.0)	\$ 4.0	\$ (10.5)	\$ (9.3)
Incremental net tax (benefit) on earnings and losses of non-U.S. and non-tax group companies	(4.6)	4.9	(32.7)	7.6
Non-U.S. tax rates	—	(1.0)	(.6)	(1.4)
Valuation allowance	2.3	(.8)	152.6	2.1
Adjustment to the reserve for uncertain tax positions, net	.5	.5	(2.4)	1.1
Nondeductible expenses	1.3	.7	1.2	1.3
U.S.- Canada APA	—	(5.5)	—	(5.5)
Domestic production activities deduction	—	.2	(1.0)	(.6)
U.S. state income taxes and other, net	(1.0)	(.4)	(1.2)	(1.1)
Income tax expense (benefit)	<u>\$ (9.5)</u>	<u>\$ 2.6</u>	<u>\$ 105.4</u>	<u>\$ (5.8)</u>
Comprehensive provision for income taxes (benefit) allocable to:				
Income tax expense (benefit)	\$ (9.5)	\$ 2.6	\$ 105.4	\$ (5.8)
Other comprehensive income (loss):				
Marketable securities	(2.8)	.8	(3.5)	1.0
Currency translation	(4.6)	1.8	(12.7)	3.6
Interest rate swap	(2.6)	.5	(2.6)	(2.2)
Pension plans	1.1	.8	2.6	2.5
OPEB plans	(.1)	(.2)	(.5)	(.6)
Total	<u>\$ (18.5)</u>	<u>\$ 6.3</u>	<u>\$ 88.7</u>	<u>\$ (1.5)</u>

The amount shown in the above table of our income tax rate reconciliation for non-U.S. tax rates represents the result determined by multiplying the pre-tax earnings or losses of each of our non-U.S. subsidiaries by the difference between the applicable statutory income tax rate for each non-U.S. jurisdiction and the U.S. federal statutory tax rate of 35%. The amount shown on such table for incremental net tax expense on earnings and losses on non-U.S. and non-tax group companies includes, as applicable, (i) current income taxes (including withholding taxes, if applicable), if any, associated with any current-year earnings of our Chemicals Segment's non-U.S. subsidiaries to the extent such current-year earnings were distributed to us in the current year, (ii) deferred income taxes (or deferred income tax benefit) associated with the current-year change in the aggregate amount of undistributed earnings of our Chemicals Segment's Canadian subsidiary, which earnings are not subject to a permanent reinvestment plan, in an amount representing the current-year change in the aggregate current income tax that would be generated (including withholding taxes, if applicable) when such aggregate undistributed earnings are distributed to us, (iii) current U.S. income taxes (or current income tax benefit), including U.S. personal holding company tax, as applicable, attributable to current-year income (losses) of one of Kronos' non-U.S. subsidiaries, which subsidiary is treated as a dual resident for U.S. income tax purposes, to the extent the current-year income (losses) of such subsidiary is subject to U.S. income tax under the U.S. dual-resident provisions of the Internal Revenue Code, (iv) deferred income taxes associated with our direct investment in Kronos (beginning in the second quarter of 2015) and (v) current and deferred income taxes associated with distributions and earnings from our investments in LandWell and BMI.

Tax authorities are examining certain of our U.S. and non-U.S. tax returns and have or may propose tax deficiencies, including penalties and interest. Because of the inherent uncertainties involved in settlement initiatives and court and tax proceedings, we cannot guarantee that these matters will be resolved in our favor, and therefore our potential exposure, if any, is also uncertain. As a result of ongoing audits in certain jurisdictions, in 2008 Kronos filed Advance Pricing Agreement Requests with the tax authorities in the U.S., Canada and Germany. These requests have been under review with the respective tax authorities since 2008 and prior to the third quarter of 2016, it was uncertain whether an agreement would be reached between the tax authorities and whether we would agree to execute and finalize such agreements. During the third quarter of 2016, Contran, as the ultimate parent of our U.S. Consolidated income tax group, executed and finalized an Advance Pricing Agreement with the U.S. Internal Revenue Service and Kronos' Canadian subsidiary executed and finalized an Advance Pricing Agreement with the Competent Authority for Canada (collectively, the "U.S.-Canada APA") effective for tax years 2005 - 2015. Pursuant to the terms of the U.S.-Canada APA, the U.S. and Canadian tax authorities agreed to certain changes to prior year taxable income of Kronos' U.S. and Canadian subsidiaries. As a result of such agreed-upon changes, we recognized a \$5.5 million current U.S. income tax benefit in the third quarter of 2016. In addition, Kronos' Canadian subsidiary will incur a cash income tax payment of approximately CAD \$3 million (USD \$2.3 million) as a result of the U.S.-Canada APA, but such payment was fully offset by previously provided accruals (such USD \$2.3 million has not been paid as of September 30, 2016, and is classified as part of income taxes payable at such date). We currently expect the Advance

Pricing Agreement between Canada and Germany (collectively, the “Canada-Germany APA”) to be executed and finalized within the next twelve months. We believe we have adequate accruals to cover any cash income tax payment which might result from the finalization of the Canada-Germany APA, and accordingly we do not expect the execution of such APA to have a material adverse effect on our consolidated financial position, results of operations or liquidity. We believe we have adequate accruals for additional taxes and related interest expense which could ultimately result from tax examinations. We believe the ultimate disposition of tax examinations should not have a material adverse effect on our consolidated financial position, results of operations or liquidity.

Kronos has substantial net operating losses in Germany and Belgium, the benefit of which Kronos had previously recognized under the more-likely-than-not recognition criteria. In the second quarter of 2015, Kronos determined that such losses did not meet the more-likely-than-not recognition criteria, and as a result Kronos recognized a non-cash deferred income tax expense of \$150.3 million in the second quarter of 2015 as a valuation allowance against Kronos’ net deferred income tax assets in such jurisdictions. Kronos recognized an additional \$2.3 million non-cash deferred income tax asset valuation allowance during the third quarter of 2015 and recognized an aggregate \$2.1 million non-cash deferred income tax asset valuation allowance in the first nine months of 2016 (mostly in the second quarter) as additional valuation allowance against additional losses in such jurisdictions.

Due to the second quarter 2015 loss at Kronos, the deferred income taxes associated with the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock was, for the first time since the fourth quarter of 2010, below the maximum amount deferred taxes we are required to recognize with regards to our investment. Accordingly, our provision for income taxes includes a non-cash income tax benefit of \$29.7 million for the first nine months of 2015 (primarily in the second quarter of 2015), for the reduction in the deferred income taxes required to be recognized with respect to the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock, to the extent such reduction related to our equity in Kronos’ net loss. We recognized a non-cash income tax of \$9.1 million for the first nine months of 2016 for the increase in the deferred income taxes required to be recognized with respect to the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock, to the extent such increase related to our equity in Kronos’ net income (loss). Such amount is included in the above table of our income tax rate reconciliation for incremental net benefit on earnings and losses on non-U.S. and non-tax group companies (in addition to the other items indicated above). A portion of such increase (reduction) also related to our equity in Kronos’ other comprehensive income (loss) items, and the amounts shown in the table above for income tax expense (benefit) allocated to other comprehensive income (loss) includes amounts related to our equity in Kronos’ other comprehensive income (loss) items.

In the first nine months of 2015, primarily in the first quarter, we recognized a non-cash income tax benefit of \$2.4 million primarily related to the release of a portion of our reserve for uncertain tax positions due to the expiration of the applicable statute of limitations. We currently estimate that our unrecognized tax benefits may decrease by approximately \$10.7 million during the next twelve months primarily due to the expiration of certain statutes of limitations and certain adjustments to our prior year returns.

Note 14—Noncontrolling interest in subsidiaries:

	December 31, 2015	September 30, 2016
(In millions)		
Noncontrolling interest in net assets:		
Kronos Worldwide	\$ 147.9	\$ 146.4
NL Industries	39.5	43.0
CompX International	15.3	16.1
BMI	31.6	30.3
LandWell	23.9	23.6
Total	<u>\$ 258.2</u>	<u>\$ 259.4</u>
	Nine months ended September 30,	
	2015	2016
(In millions)		
Noncontrolling interest in net income (loss) of subsidiaries:		
Kronos Worldwide	\$ (30.2)	\$ 3.8
NL Industries	(3.1)	1.0
CompX International	1.0	1.0
BMI	.4	(1.2)
LandWell	.2	(3)
Total	<u>\$ (31.7)</u>	<u>\$ 4.3</u>

Note 15—Accumulated other comprehensive income (loss):

Changes in accumulated other comprehensive income (loss) attributable to Valhi stockholders for the three months and nine months ended September 30, 2015 and 2016 are presented in the table below.

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
(In millions)				
Accumulated other comprehensive income (loss), net of tax and noncontrolling interest:				
Marketable securities:				
Balance at beginning of period	\$ 1.6	\$ 1.7	\$ 1.6	\$ 1.6
Other comprehensive income— unrealized gains arising during the period	(.3)	—	(.3)	.1
Balance at end of period	<u>\$ 1.3</u>	<u>\$ 1.7</u>	<u>\$ 1.3</u>	<u>\$ 1.7</u>
Interest rate swap:				
Balance at beginning of period	\$ —	\$ (3.5)	\$ —	\$ (1.3)
Other comprehensive income (loss):				
Unrealized losses arising during the year	(2.3)	.1	(2.3)	(2.7)
Less reclassification adjustment for amounts included in interest expense	—	.4	—	1.0
Balance at end of period	<u>\$ (2.3)</u>	<u>\$ (3.0)</u>	<u>\$ (2.3)</u>	<u>\$ (3.0)</u>
Currency translation adjustment:				
Balance at beginning of period	\$ (61.6)	\$ (72.4)	\$ (22.6)	\$ (78.1)
Other comprehensive income (loss)	(9.3)	5.4	(48.3)	11.1
Balance at end of period	<u>\$ (70.9)</u>	<u>\$ (67.0)</u>	<u>\$ (70.9)</u>	<u>\$ (67.0)</u>
Defined benefit pension plans:				
Balance at beginning of period	\$ (127.2)	\$ (119.3)	\$ (132.0)	\$ (123.0)
Other comprehensive income— amortization of prior service cost and net losses included in net periodic pension cost	2.2	1.9	7.0	5.6
Balance at end of period	<u>\$ (125.0)</u>	<u>\$ (117.4)</u>	<u>\$ (125.0)</u>	<u>\$ (117.4)</u>
OPEB plans:				
Balance at beginning of period	\$ 3.9	\$ 3.3	\$ 4.4	\$ 3.8
Other comprehensive loss – amortization of prior service credit	(.3)	(.3)	(.8)	(.8)
Balance at end of period	<u>\$ 3.6</u>	<u>\$ 3.0</u>	<u>\$ 3.6</u>	<u>\$ 3.0</u>
Total accumulated other comprehensive income (loss):				
Balance at beginning of period	\$ (183.3)	\$ (190.2)	\$ (148.6)	\$ (197.0)
Other comprehensive income (loss)	(10.0)	7.5	(44.7)	14.3
Balance at end of period	<u>\$ (193.3)</u>	<u>\$ (182.7)</u>	<u>\$ (193.3)</u>	<u>\$ (182.7)</u>

See Note 11 for amounts related to our defined benefit pension plans and OPEB plans and Note 17 for a discussion of our interest rate swap contract.

Note 16—Commitments and contingencies:

Lead pigment litigation—NL

NL's former operations included the manufacture of lead pigments for use in paint and lead-based paint. NL, other former manufacturers of lead pigments for use in paint and lead-based paint (together, the "former pigment manufacturers"), and the Lead Industries Association ("LIA"), which discontinued business operations in 2002, have been named as defendants in various legal proceedings seeking damages for personal injury, property damage and governmental expenditures allegedly caused by the use of lead-based paints. Certain of these actions have been filed by or on behalf of states, counties, cities or their public housing authorities and school districts, and certain others have been asserted as class actions. These lawsuits seek recovery under a variety of theories, including public and private nuisance, negligent product design, negligent failure to warn, strict liability, breach of warranty, conspiracy/concert of action, aiding and abetting, enterprise liability, market share or risk contribution liability, intentional tort, fraud and misrepresentation, violations of state consumer protection statutes, supplier negligence and similar claims.

The plaintiffs in these actions generally seek to impose on the defendants responsibility for lead paint abatement and health concerns associated with the use of lead-based paints, including damages for personal injury, contribution and/or indemnification for medical expenses, medical monitoring expenses and costs for educational programs. To the extent the plaintiffs seek compensatory or punitive damages in these actions, such damages are generally unspecified. In some cases, the damages are unspecified pursuant to the requirements of applicable state law. A number of cases are inactive or have been dismissed or withdrawn. Most of the remaining cases are in various pre-trial stages. Some are on appeal following dismissal or summary judgment rulings or a trial verdict in favor of either the defendants or the plaintiffs.

NL believes that these actions are without merit, and NL intends to continue to deny all allegations of wrongdoing and liability and to defend against all actions vigorously. NL does not believe it is probable that it has incurred any liability with respect to all of the lead pigment litigation cases to which NL is a party, and liability to us that may result, if any, in this regard cannot be reasonably estimated, because:

- NL has never settled any of the market share, intentional tort, fraud, nuisance, supplier negligence, breach of warranty, conspiracy, misrepresentation, aiding and abetting, enterprise liability, or statutory cases,
- no final, non-appealable adverse verdicts have ever been entered against NL, and
- NL has never ultimately been found liable with respect to any such litigation matters, including over 100 cases over a twenty-year period for which NL was previously a party and for which NL has been dismissed without any finding of liability.

Accordingly, neither we nor NL have accrued any amounts for any of the pending lead pigment and lead-based paint litigation cases filed by or on behalf of states, counties, cities or their public housing authorities and school districts, or those asserted as class actions. In addition, we have determined that liability to us which may result, if any, cannot be reasonably estimated because there is no prior history of a loss of this nature on which an estimate could be made and there is no substantive information available upon which an estimate could be based.

In one of these lead pigment cases, in April 2000 NL was served with a complaint in *County of Santa Clara v. Atlantic Richfield Company, et al.* (Superior Court of the State of California, County of Santa Clara, Case No. 1-00-CV-788657) brought by a number of California government entities against the former pigment manufacturers, the LIA and certain paint manufacturers. The County of Santa Clara sought to recover compensatory damages for funds the plaintiffs have expended or would in the future expend for medical treatment, educational expenses, abatement or other costs due to exposure to, or potential exposure to, lead paint, disgorgement of profit, and punitive damages. In July 2003, the trial judge granted defendants' motion to dismiss all remaining claims. Plaintiffs appealed and the intermediate appellate court reinstated public nuisance, negligence, strict liability, and fraud claims in March 2006. A fourth amended complaint was filed in March 2011 on behalf of The People of California by the County Attorneys of Alameda, Ventura, Solano, San Mateo, Los Angeles and Santa Clara, and the City Attorneys of San Francisco, San Diego and Oakland. That complaint alleged that the presence of lead paint created a public nuisance in each of the prosecuting jurisdictions and sought its abatement. In July and August 2013, the case was tried. In January 2014, the Judge issued a judgment finding NL, The Sherwin Williams Company and ConAgra Grocery Products Company jointly and severally liable for the abatement of lead paint in pre-1980 homes, and ordered the defendants to pay an aggregate \$1.15 billion to the people of the State of California to fund such abatement. In February 2014, NL filed a motion for a new trial, and in March 2014 the court denied the motion. Subsequently in March 2014, NL filed a notice of appeal with the Sixth District Court of Appeal for the State of California and the appeal is proceeding with the appellate court. NL believes that this judgment is inconsistent with California law and is unsupported by the evidence, and NL will defend vigorously against all claims.

The Santa Clara case is unusual in that this is the second time that an adverse verdict in the lead pigment litigation has been entered against NL (the first adverse verdict against NL was ultimately overturned on appeal). We have concluded that the likelihood

of a loss in this case has not reached a standard of “probable” as contemplated by ASC 450, given (i) the substantive, substantial and meritorious grounds on which the adverse verdict in the Santa Clara case will be appealed, (ii) the uniqueness of the Santa Clara verdict (i.e. no final, non-appealable verdicts have ever been rendered against NL, or any of the other former lead pigment manufacturers, based on the public nuisance theory of liability or otherwise), and (iii) the rejection of the public nuisance theory of liability as it relates to lead pigment matters in many other jurisdictions (no jurisdiction in which a plaintiff has asserted a public nuisance theory of liability has ever successfully been upheld). In addition, liability that may result, if any, cannot be reasonably estimated, as NL continues to have no basis on which an estimate of liability could be made, as discussed above. However, as with any legal proceeding, there is no assurance that any appeal would be successful, and it is reasonably possible, based on the outcome of the appeals process, that NL may in the future incur some liability resulting in the recognition of a loss contingency accrual that could have a material adverse impact on our results of operations, financial position and liquidity.

New cases may continue to be filed against NL. We cannot assure you that we will not incur liability in the future in respect of any of the pending or possible litigation in view of the inherent uncertainties involved in court and jury rulings. In the future, if new information regarding such matters becomes available to us (such as a final, non-appealable adverse verdict against us or otherwise ultimately being found liable with respect to such matters), at that time we would consider such information in evaluating any remaining cases then-pending against us as to whether it might then have become probable we have incurred liability with respect to these matters, and whether such liability, if any, could have become reasonably estimable. The resolution of any of these cases could result in the recognition of a loss contingency accrual that could have a material adverse impact on our net income for the interim or annual period during which such liability is recognized and a material adverse impact on our consolidated financial condition and liquidity.

Environmental matters and litigation

Our operations are governed by various environmental laws and regulations. Certain of our businesses are and have been engaged in the handling, manufacture or use of substances or compounds that may be considered toxic or hazardous within the meaning of applicable environmental laws and regulations. As with other companies engaged in similar businesses, certain of our past and current operations and products have the potential to cause environmental or other damage. We have implemented and continue to implement various policies and programs in an effort to minimize these risks. Our policy is to maintain compliance with applicable environmental laws and regulations at all of our plants and to strive to improve environmental performance. From time to time, we may be subject to environmental regulatory enforcement under U.S. and non-U.S. statutes, the resolution of which typically involves the establishment of compliance programs. It is possible that future developments, such as stricter requirements of environmental laws and enforcement policies, could adversely affect our production, handling, use, storage, transportation, sale or disposal of such substances. We believe that all of our facilities are in substantial compliance with applicable environmental laws.

Certain properties and facilities used in NL’s former operations, including divested primary and secondary lead smelters and former mining locations, are the subject of civil litigation, administrative proceedings or investigations arising under federal and state environmental laws and common law. Additionally, in connection with past operating practices, we are currently involved as a defendant, potentially responsible party (“PRP”) or both, pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, as amended by the Superfund Amendments and Reauthorization Act (“CERCLA”), and similar state laws in various governmental and private actions associated with waste disposal sites, mining locations, and facilities that we or our predecessors, our subsidiaries or their predecessors currently or previously owned, operated or used, certain of which are on the United States Environmental Protection Agency’s (“EPA”) Superfund National Priorities List or similar state lists. These proceedings seek cleanup costs, damages for personal injury or property damage and/or damages for injury to natural resources. Certain of these proceedings involve claims for substantial amounts. Although we may be jointly and severally liable for these costs, in most cases we are only one of a number of PRPs who may also be jointly and severally liable, and among whom costs may be shared or allocated. In addition, we are occasionally named as a party in a number of personal injury lawsuits filed in various jurisdictions alleging claims related to environmental conditions alleged to have resulted from our operations.

Obligations associated with environmental remediation and related matters are difficult to assess and estimate for numerous reasons including the:

- complexity and differing interpretations of governmental regulations,
- number of PRPs and their ability or willingness to fund such allocation of costs,
- financial capabilities of the PRPs and the allocation of costs among them,
- solvency of other PRPs,
- multiplicity of possible solutions,
- number of years of investigatory, remedial and monitoring activity required,

- uncertainty over the extent, if any, to which our former operations might have contributed to the conditions allegedly giving rise to such personal injury, property damage, natural resource and related claims, and
- number of years between former operations and notice of claims and lack of information and documents about the former operations.

In addition, the imposition of more stringent standards or requirements under environmental laws or regulations, new developments or changes regarding site cleanup costs or the allocation of costs among PRPs, solvency of other PRPs, the results of future testing and analysis undertaken with respect to certain sites or a determination that we are potentially responsible for the release of hazardous substances at other sites, could cause our expenditures to exceed our current estimates. We cannot assure you that actual costs will not exceed accrued amounts or the upper end of the range for sites for which estimates have been made, and we cannot assure you that costs will not be incurred for sites where no estimates presently can be made. Further, additional environmental and related matters may arise in the future. If we were to incur any future liability, this could have a material adverse effect on our consolidated financial statements, results of operations and liquidity.

We record liabilities related to environmental remediation and related matters (including costs associated with damages for personal injury or property damage and/or damages for injury to natural resources) when estimated future expenditures are probable and reasonably estimable. We adjust such accruals as further information becomes available to us or as circumstances change. Unless the amounts and timing of such estimated future expenditures are fixed and reasonably determinable, we generally do not discount estimated future expenditures to their present value due to the uncertainty of the timing of the payout. We recognize recoveries of costs from other parties, if any, as assets when their receipt is deemed probable. At December 31, 2015 and September 30, 2016, receivables for recoveries were not significant.

We do not know and cannot estimate the exact time frame over which we will make payments for our accrued environmental and related costs. The timing of payments depends upon a number of factors, including but not limited to the timing of the actual remediation process; which in turn depends on factors outside of our control. At each balance sheet date, we estimate the amount of our accrued environmental and related costs which we expect to pay within the next twelve months, and we classify this estimate as a current liability. We classify the remaining accrued environmental costs as a noncurrent liability.

The table below presents a summary of the activity in our accrued environmental costs during the first nine months of 2016 are presented below.

	<u>Amount</u> <u>(In millions)</u>
Balance at the beginning of the year	\$ 120.4
Additions charged to expense, net	5.7
Payments, net	(2.2)
Currency and other	.2
Balance at the end of period	<u>\$ 124.1</u>
Amounts recognized in our Condensed Consolidated Balance Sheet at the end of the period:	
Current liabilities	\$ 16.5
Noncurrent liabilities	107.6
Total	<u>\$ 124.1</u>

NL – On a quarterly basis, NL evaluates the potential range of its liability for environmental remediation and related costs at sites where it has been named as a PRP or defendant. At September 30, 2016, NL had accrued approximately \$117 million related to approximately 42 sites associated with remediation and related matters that it believes are at the present time and/or in their current phase reasonably estimable. The upper end of the range of reasonably possible costs to NL for remediation and related matters for which we believe it is possible to estimate costs is approximately \$160 million, including the amount currently accrued.

NL believes that it is not reasonably possible to estimate the range of costs for certain sites. At September 30, 2016, there were approximately 5 sites for which NL is not currently able to reasonably estimate a range of costs. For these sites, generally the investigation is in the early stages, and NL is unable to determine whether or not NL actually had any association with the site, the nature of its responsibility, if any, for the contamination at the site and the extent of contamination at and cost to remediate the site. The timing and availability of information on these sites is dependent on events outside of our control, such as when the party alleging liability provides information to us. At certain of these previously inactive sites, NL has received general and special notices of liability from the EPA and/or state agencies alleging that NL, sometimes with other PRPs, are liable for past and future costs of remediating environmental contamination allegedly caused by former operations. These notifications may assert that NL, along with

any other alleged PRPs, are liable for past and/or future clean-up costs. As further information becomes available to us for any of these sites which would allow us to estimate a range of costs, we would at that time adjust our accruals. Any such adjustment could result in the recognition of an accrual that would have a material effect on our consolidated financial statements, results of operations and liquidity.

WCS – Effective December 2015, WCS entered an Agreed Order with the TCEQ with regard to the disposition of certain U.S. Department of Energy (“DOE”) waste currently stored at the WCS facility. WCS entered into the Agreed Order as the licensee of the storage facility, and DOE entered into a similar order with the TCEQ as the owner of the waste. WCS asserts that the alleged violations set forth in the orders are due to the acts and omissions of DOE and its contractor. WCS expects to work with TCEQ and DOE to develop a compliance plan regarding the stored waste. While the cost of the compliance plan is not currently estimable, the amount of such compliance costs could be material. On October 21, 2015 the U.S. Nuclear Regulatory Commission (“NRC”) Office of Investigations commenced an investigation of WCS’s handling of the DOE waste described above. WCS is cooperating fully, and no formal demands or claims have been asserted by the NRC. WCS believes the DOE or its contractor is required to reimburse WCS for its cost to comply with the Agreed Order and the NRC investigation under the terms of the storage contract and pursuant to law, and as such we believe the cost of compliance with the Agreed Order and the NRC investigation should not have a material effect on our consolidated financial condition, results of operations or liquidity. On April 28, 2016 WCS filed with the DOE an administrative claim under the Federal Tort Claims Act related to this matter.

Other – We have also accrued approximately \$7.1 million at September 30, 2016 for other environmental cleanup matters. This accrual is near the upper end of the range of our estimate of reasonably possible costs for such matters.

Insurance coverage claims

We are involved in certain legal proceedings with a number of our former insurance carriers regarding the nature and extent of the carriers’ obligations to us under insurance policies with respect to certain lead pigment and asbestos lawsuits. The issue of whether insurance coverage for defense costs or indemnity or both will be found to exist for our lead pigment and asbestos litigation depends upon a variety of factors and we cannot assure you that such insurance coverage will be available.

We have agreements with certain of our former insurance carriers pursuant to which the carriers reimburse us for a portion of our future lead pigment litigation defense costs, and one such carrier reimburses us for a portion of our future asbestos litigation defense costs. We are not able to determine how much we will ultimately recover from these carriers for defense costs incurred by us because of certain issues that arise regarding which defense costs qualify for reimbursement. While we continue to seek additional insurance recoveries, we do not know if we will be successful in obtaining reimbursement for either defense costs or indemnity. Accordingly, we recognize insurance recoveries in income only when receipt of the recovery is probable and we are able to reasonably estimate the amount of the recovery.

For additional discussion of certain litigation involving NL and certain of its former insurance carriers, please refer to our 2015 Annual Report.

Other litigation

NL— NL has been named as a defendant in various lawsuits in several jurisdictions, alleging personal injuries as a result of occupational exposure primarily to products manufactured by our former operations containing asbestos, silica and/or mixed dust. In addition, some plaintiffs allege exposure to asbestos from working in various facilities previously owned and/or operated by NL. There are 103 of these types of cases pending, involving a total of approximately 588 plaintiffs. In addition, the claims of approximately 8,692 plaintiffs have been administratively dismissed or placed on the inactive docket in Ohio state court. We do not expect these claims will be re-opened unless the plaintiffs meet the courts’ medical criteria for asbestos-related claims. We have not accrued any amounts for this litigation because of the uncertainty of liability and inability to reasonably estimate the liability, if any. To date, we have not been adjudicated liable in any of these matters. Based on information available to us, including:

- facts concerning historical operations,
- the rate of new claims,
- the number of claims from which we have been dismissed, and
- our prior experience in the defense of these matters,

We believe that the range of reasonably possible outcomes of these matters will be consistent with our historical costs (which are not material). Furthermore, we do not expect any reasonably possible outcome would involve amounts material to our consolidated financial position, results of operations or liquidity. We have sought and will continue to vigorously seek, dismissal and/or a finding of no liability from each claim. In addition, from time to time, we have received notices regarding asbestos or silica claims purporting to

be brought against former subsidiaries, including notices provided to insurers with which we have entered into settlements extinguishing certain insurance policies. These insurers may seek indemnification from us.

Kronos— In March 2013, Kronos was served with the complaint, Los Gatos Mercantile, Inc. d/b/a Los Gatos Ace Hardware, et al v. E.I. Du Pont de Nemours and Company, et al. (United States District Court, for the Northern District of California, Case No. 3:13-cv-01180-SI). The defendants include Kronos, E.I. Du Pont de Nemours & Company, Huntsman International LLC and Millennium Inorganic Chemicals, Inc. As amended by plaintiffs' third amended complaint (Harrison, Jan, et al v. E.I. Du Pont de Nemours and Company, et al), plaintiffs seek to represent a class consisting of indirect purchasers of titanium dioxide in the states of Arizona, Arkansas, California, the District of Columbia, Florida, Iowa, Kansas, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Mexico, New York, North Carolina, Oregon and Tennessee that indirectly purchased titanium dioxide from one or more of the defendants on or after March 1, 2002. The complaint alleges that the defendants conspired and combined to fix, raise, maintain, and stabilize the price at which titanium dioxide was sold in the United States and engaged in other anticompetitive conduct. The case is now proceeding in the trial court. We believe the action is without merit, will deny all allegations of wrongdoing and liability and intend to defend against the action vigorously. Based on our quarterly status evaluation of this case, we have determined that it is not reasonably possible that a loss has been incurred in this case.

In September 2016, Kronos was served with the complaint, Home Depot U.S.A., Inc. v. E.I. Dupont Nemours and Company, et al. (United States District Court, for the Northern District of California, Case No. 3:16-cv-04865). The defendants include Kronos, E.I. Du Pont de Nemours & Company, Huntsman International LLC and Millennium Inorganic Chemicals, Inc. The plaintiff alleges that it indirectly purchased titanium dioxide from one or more of the defendants on or after March 1, 2002. The complaint alleges that the defendants conspired and combined to fix, raise, maintain, and stabilize the price at which titanium dioxide was sold in the United States and engaged in other anticompetitive conduct. The case is now proceeding in the trial court. We believe the action is without merit, will deny all allegations of wrongdoing and liability and intend to defend against the action vigorously. Based on our evaluation of this case, we have determined that it is not reasonably possible that a loss has been incurred in this case.

Other – For a discussion of other legal proceedings to which we are a party, please refer to our 2015 Annual Report.

In addition to the litigation described above, we and certain of our affiliates are also involved in various other environmental, contractual, product liability, patent (or intellectual property), employment and other claims and disputes incidental to our present and former businesses. In certain cases, we have insurance coverage for these items, although we do not expect any additional material insurance coverage for our environmental claims.

We currently believe that the disposition of all of these various other claims and disputes, individually or in the aggregate, should not have a material adverse effect on our consolidated financial position, results of operations or liquidity beyond the accruals already provided.

Note 17—Fair value measurements and financial instruments:

The following table summarizes the valuation of our marketable securities, financial instruments and other items recorded on a fair value basis as of:

	Fair Value Measurements			
	Total	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
(In millions)				
Asset (liability)				
December 31, 2015:				
Marketable securities:				
Current	\$ 2.0	\$ —	\$ 2.0	\$ —
Noncurrent	254.9	3.5	1.4	250.0
Currency forward contracts	(1.2)	(1.2)	—	—
Interest rate swap	(3.5)	—	(3.5)	—
September 30, 2016:				
Marketable securities:				
Current	\$.7	\$ —	\$.7	\$ —
Noncurrent	256.2	3.1	3.1	250.0
Currency forward contracts	.5	.5	—	—
Interest rate swap	(8.1)	—	(8.1)	—

See Note 4 for information on how we determine fair value of our noncurrent marketable securities.

Certain of our sales generated by Chemicals Segment's non-U.S. operations are denominated in U.S. dollars. Our Chemicals Segment periodically uses currency forward contracts to manage a very nominal portion of currency exchange rate risk associated with trade receivables denominated in a currency other than the holder's functional currency or similar exchange rate risk associated with future sales. Derivatives that we use are primarily currency forward contracts and interest rate swaps. We have not entered into these contracts for trading or speculative purposes in the past, nor do we currently anticipate entering into such contracts for trading or speculative purposes in the future. Derivatives used to hedge forecasted transactions and specific cash flows associated with financial assets and liabilities denominated in currencies other than the U.S. dollar and which meet the criteria for hedge accounting are designated as cash flow hedges. Consequently, the effective portion of gains and losses is deferred as a component of accumulated other comprehensive income (loss) and is recognized in earnings at the time the hedged item affects earnings. Contracts that do not meet the criteria for hedge accounting are marked-to-market at each balance sheet date with any resulting gain or loss recognized in income currently as part of net currency transactions gains and losses. The fair value of the currency forward contracts is determined using Level 1 inputs based on the currency spot forward rates quoted by banks or currency dealers.

At September 30, 2016, Kronos had currency forward contracts to exchange:

- an aggregate €8.8 million for an equivalent value of Norwegian kroner at exchange rates ranging from krone 9.44 to krone 9.47 per euro. These contracts with DnB Nor Bank ASA mature at a rate of approximately €2.9 million per month from October 2016 through December 2016,
- an aggregate \$6.5 million for an equivalent value of Norwegian kroner at exchange rates ranging from krone 8.31 to krone 8.32 per U.S. dollar. These contracts with DnB Nor Bank ASA mature at a rate of approximately \$2.2 million per month from October 2016 to December 2016,
- an aggregate of \$7.4 million for an equivalent value of Canadian dollars at an exchange rate of Cdn. \$1.29 per U.S. dollar. These contracts with Wells Fargo Bank, N.A. mature at a rate of \$2.5 million per month from October 2016 through December 2016, and
- an aggregate \$3.8 million for an equivalent value of euro at exchange rates ranging of €1.14 per U.S. dollar. These contracts with Deutsche Bank mature at a rate of \$1.3 million per month from October 2016 through December 2016.

The estimated fair value of such currency forward contracts at September 30, 2016 was a \$.5 million net asset, including \$.7 million recognized as a part of accounts and other receivables and \$.2 million recognized as part of accounts payable and accrued liabilities in our Condensed Consolidated Balance Sheet. We recognized a net \$1.1 million currency transaction gain in our Condensed Consolidated Statement of Operations for the nine months ended September 30, 2016 related to currency forward

contracts. We are not currently using hedge accounting for our outstanding currency forward contracts at September 30, 2016, and we did not use hedge accounting for any of such contracts we previously held in 2015. Accordingly, changes in the aggregate fair value of currency forward contracts we hold are recognized as a currency transaction gain or loss.

Interest rate swap contract - As part of our interest rate risk management strategy, in August 2015 Kronos entered into a pay-fixed/receive-variable interest rate swap contract with Wells Fargo Bank, N.A. to minimize its exposure to volatility in LIBOR as it relates to Kronos' forecasted outstanding variable-rate indebtedness. Under this interest rate swap, Kronos will pay a fixed rate of 2.016% per annum, payable quarterly, and receive a variable rate of three-month LIBOR (subject to a 1.00% floor), also payable quarterly, in each case based on the notional amount of the swap then outstanding. The effective date of the swap contract was September 30, 2015. The notional amount of the swap started at \$344.75 million and declines by \$875,000 each quarter beginning December 31, 2015, with a final maturity of the swap contract in February 2020. The notional amount of the swap as of September 30, 2016 was \$341.3 million. This swap contract has been designated as a cash flow hedge and qualified as an effective hedge at inception under ASC Topic 815. The effective portion of changes in fair value on this interest rate swap is recorded as a component of other comprehensive income (loss), net of deferred income taxes and noncontrolling interest. Commencing in the fourth quarter of 2015, as interest expense accrues on LIBOR-based variable rate debt, we classify the amount we pay under the pay-fixed leg of the swap and the amount we receive under the receive-variable leg of the swap as part of interest expense, with the net effect that the amount of interest expense we recognize on our LIBOR-based variable rate debt each quarter, as it relates to the notional amount of the swap outstanding each quarter, will be based on a fixed rate of 2.016% per annum in lieu of the level of LIBOR prevailing during the quarter. The amount of hedge ineffectiveness, if any, related to the swap will be recorded in earnings (also as part of interest expense). Since the inception of the swap through September 30, 2016, there have been no gains or losses recognized in earnings representing hedge ineffectiveness with respect to the interest rate swap.

During the first nine months of September 30, 2016, the pretax amount recognized in other comprehensive income (loss) related to the interest rate swap contract was a \$4.6 million loss. During the same period, \$2.7 million was reclassified from accumulated other comprehensive income (loss) into interest expense. During the next twelve months the amount of the September 30, 2016 accumulated other comprehensive income (loss) balance that is expected to be reclassified to interest expense is \$3.5 million pre-tax.

The fair value of the interest rate swap contract at September 30, 2016 was a liability of \$8.1 million and is reflected in the Condensed Consolidated Balance Sheet as part of accounts payable and accrued liabilities of \$3.3 million and other noncurrent liabilities of \$4.8 million. See Notes 8 and 9. The fair value of the interest rate swap was estimated by a third party using inputs that are observable or that can be corroborated by observable market data such as interest rate yield curves, and therefore, is classified within Level 2 of the valuation hierarchy.

The following table presents the financial instruments that are not carried at fair value but which require fair value disclosure:

	December 31, 2015		September 30, 2016	
	Carrying amount	Fair value	Carrying amount	Fair value
	(In millions)			
Cash, cash equivalents and restricted cash equivalents	\$ 229.1	\$ 229.1	\$ 235.2	\$ 235.2
Deferred payment obligation	8.8	8.8	9.0	9.0
Long-term debt (excluding capitalized leases):				
Kronos term loan	\$ 338.0	\$ 309.5	\$ 336.4	\$ 331.0
Snake River Sugar Company fixed rate loans	250.0	250.0	250.0	250.0
WCS fixed rate debt	65.6	65.6	64.4	64.4
Valhi credit facility with Contran	263.8	263.8	288.3	288.3
Kronos North American credit facility	—	—	18.5	18.5
Tremont promissory note payable	17.1	17.1	17.1	17.1
BMI bank note payable	9.3	9.4	8.6	8.7
LandWell note payable to the City of Henderson	3.1	3.1	3.1	3.1

At December 31, 2015 and September 30, 2016, the estimated market price of Kronos' term loan was \$900 per \$1,000 principal amount and \$970 per \$1,000 principal amount, respectively. The fair value of Kronos' term loan was based on quoted market prices; however, these quoted market prices represent Level 2 inputs because the markets in which the term loan trades were not active. The fair value of our fixed-rate nonrecourse loans from Snake River Sugar Company is based upon the \$250 million redemption price of our investment in Amalgamated, which collateralizes the nonrecourse loans (this is a Level 3 input). Fair value variable interest debt and other fixed-rate debt are deemed to approximate book value, which represents Level 2 inputs. Due to their near-term maturities, the carrying amounts of accounts receivable and accounts payable are considered equivalent to fair value. See Notes 5 and 8.

Note 18—Recent accounting pronouncements not yet adopted:

In May 2014, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*. This standard replaces existing revenue recognition guidance, which in many cases was tailored for specific industries, with a uniform accounting standard applicable to all industries and transactions. The new standard, as amended, is currently effective for us beginning with the first quarter of 2018. Entities may elect to adopt ASU No. 2014-09 retrospectively for all periods for all contracts and transactions which occurred during the period (with a few exceptions for practical expediency) or retrospectively with a cumulative effect recognized as of the date of adoption. ASU No. 2014-09 is a fundamental rewriting of existing GAAP with respect to revenue recognition, and we are still evaluating the effect the Standard will have on our Condensed Consolidated Financial Statements. We currently expect to adopt the standard in the first quarter of 2018. In addition, we have not yet determined the method we will use to adopt the Standard.

In January 2016, the FASB issued ASU 2016-01, *Financial Instruments-Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*, which addresses certain aspects related to the recognition, measurement, presentation and disclosure of financial instruments. The ASU requires equity investments (except for those accounted for under the equity method of accounting or those that result in the consolidation of the investee) to generally be measured at fair value with changes in fair value recognized in net income. The amendment also requires a number of other changes, including among others: simplifying the impairment assessment for equity instruments without readily determinable fair values; eliminating the requirement for public business entities to disclose methods and assumptions used to determine fair value for financial instruments measured at amortized cost; requiring an exit price notion when measuring the fair value of financial instruments for disclosure purposes; and requiring separate presentation of financial assets and liabilities by measurement category and form of asset. The changes indicated above will be effective for us beginning in the first quarter of 2018, with prospective application required, and early adoption is not permitted. The most significant aspect of adopting this ASU will be the requirement to recognize changes in fair value of our available-for-sale marketable equity securities in net income (currently changes in fair value of such securities are recognized in other comprehensive income).

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*, which is a comprehensive rewriting of the lease accounting guidance which aims to increase comparability and transparency with regard to lease transactions. The primary change will be the recognition of lease assets for the right-of-use of the underlying asset and lease liabilities for the obligation to make payments by lessees on the balance sheet for leases currently classified as operating leases. The ASU also requires increased qualitative disclosure about leases in addition to quantitative disclosures currently required. Companies are required to use a modified retrospective approach to adoption with a practical expedient which will allow companies to continue to account for existing leases under the prior guidance unless a lease is modified, other than the requirement to recognize the right-of-use asset and lease liability for all operating leases. The changes indicated above will be effective for us beginning in the first quarter of 2019, with early adoption permitted. We have not yet evaluated the effect this ASU will have on our Condensed Consolidated Financial Statements, but given the material amount of our future minimum payments under non-cancellable operating leases at December 31, 2015 discussed in Note 17 to our 2015 Annual report, we expect to recognize a material right-of-use lease asset and lease liability upon adoption of the ASU.

In August 2016, the FASB issued Accounting Standards Update (“ASU”) No. 2016-15, *Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments*. This standard provides guidance on eight specific cash flow issues including: debt prepayment or debt extinguishment costs, proceeds from the settlement of insurance claims, distributions from equity method investees and separately identifiable cash flows and application of the predominance principle. The new standard is effective for us beginning with the first quarter of 2018. ASU 2016-15 is to be adopted with retrospective presentation and early adoption is permitted provided all provisions are adopted. We have not yet determined when we will adopt ASU 2016-15. The adoption of the standard will not have a material effect on our Consolidated Financial Statements.

In October 2016, the FASB issued ASU 2016-16, *Income Taxes (Topic 740) Intra-Entity Transfers of Assets Other Than Inventory*. Currently an entity would not recognize the income tax consequences of an intra-entity transfer of assets other than inventory until final disposition to a third-party. Under the new guidance an entity should recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. No additional disclosures are required under this pronouncement. This standard is effective for us in the first quarter of 2018 and early adoption is permitted. From time to time we engage in intra-entity asset transfers that may fall under the new guidance but we do not expect the adoption of this standard to have a material effect on our Consolidated Financial Statements.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

RESULTS OF OPERATIONS

Business Overview

We are primarily a holding company. We operate through our wholly-owned and our majority-owned subsidiaries, including NL Industries, Inc., Kronos Worldwide, Inc., CompX International Inc., Waste Control Specialists LLC ("WCS"), Tremont LLC, Basic Management, Inc. ("BMI") and The LandWell Company ("LandWell"). Kronos (NYSE: KRO), NL (NYSE: NL), and CompX (NYSE MKT: CIX) each file periodic reports with the Securities and Exchange Commission ("SEC").

We have four consolidated reportable operating segments:

- *Chemicals*— Our chemicals segment is operated through our majority control of Kronos. Kronos is a leading global producer and marketer of value-added titanium dioxide pigments ("TiO₂"). TiO₂ is used to impart whiteness, brightness, opacity and durability to a wide variety of products, including paints, plastics, paper, fibers and ceramics. Additionally, TiO₂ is a critical component of everyday applications, such as coatings, plastics and paper, as well as many specialty products such as inks, foods and cosmetics.
- *Component Products*— We operate in the component products industry through our majority control of CompX. CompX is a leading manufacturer of security products used in the recreational transportation, postal, office and institutional furniture, cabinetry, tool storage, healthcare and a variety of other industries. CompX is also a leading manufacturer of stainless steel exhaust systems, gauges, throttle controls and trim tabs for the recreational marine industry.
- *Waste Management*— WCS is our subsidiary which operates a West Texas facility for the processing, treatment, storage and disposal of a broad range of low-level radioactive, hazardous, toxic and other wastes. WCS obtained a byproduct disposal license in 2008 and began disposal operations at this facility in October 2009. WCS received a low-level radioactive waste ("LLRW") disposal license in September 2009. The Compact LLRW disposal facility commenced operations in 2012, and the Federal LLRW site commenced operations in 2013. We reached an agreement to sell our Waste Management Segment in November 2015. See Note 3 to our Condensed Consolidated Financial Statements.
- *Real Estate Management and Development*— We operate in real estate management and development through our majority control of BMI and LandWell. BMI provides utility services to certain industrial and municipal customers and owns real property in Henderson, Nevada. LandWell is engaged in efforts to develop certain land holdings for commercial, industrial and residential purposes in Henderson, Nevada.

General

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Statements in this Quarterly Report that are not historical facts are forward-looking in nature and represent management's beliefs and assumptions based on currently available information. In some cases, you can identify forward-looking statements by the use of words such as "believes," "intends," "may," "should," "could," "anticipates," "expects" or comparable terminology, or by discussions of strategies or trends. Although we believe that the expectations reflected in such forward-looking statements are reasonable, we do not know if these expectations will be correct. Such statements by their nature involve substantial risks and uncertainties that could significantly impact expected results. Actual future results could differ materially from those predicted. The factors that could cause actual future results to differ materially from those described herein are the risks and uncertainties discussed in this Quarterly Report and those described from time to time in our other filings with the SEC include, but are not limited to, the following:

- Future supply and demand for our products;
- The extent of the dependence of certain of our businesses on certain market sectors;
- The cyclicity of certain of our businesses (such as Kronos' TiO₂ operations);
- Customer and producer inventory levels;
- Unexpected or earlier-than-expected industry capacity expansion (such as the TiO₂ industry);
- Changes in raw material and other operating costs (such as energy, ore, zinc and brass costs) and our ability to pass those costs on to our customers or offset them with reductions in other operating costs;
- Changes in the availability of raw materials (such as ore);

- General global economic and political conditions (such as changes in the level of gross domestic product in various regions of the world and the impact of such changes on demand for, among other things, TiO₂ and component products);
- Competitive products and prices and substitute products, including increased competition from low-cost manufacturing sources (such as China);
- Possible disruption of our business or increases in the cost of doing business resulting from terrorist activities or global conflicts;
- Customer and competitor strategies;
- Potential difficulties in integrating future acquisitions;
- Potential difficulties in upgrading or implementing new accounting and manufacturing software systems;
- Potential consolidation of our competitors;
- Potential consolidation of our customers;
- The impact of pricing and production decisions;
- Competitive technology positions;
- The introduction of trade barriers;
- The ability of our subsidiaries to pay us dividends;
- The impact of current or future government regulations (including employee healthcare benefit related regulations);
- Uncertainties associated with new product development and the development of new product features;
- Fluctuations in currency exchange rates (such as changes in the exchange rate between the U.S. dollar and each of the euro, the Norwegian krone and the Canadian dollar) or possible disruptions to our business resulting from potential instability resulting from uncertainties associated with the euro or other currencies;
- Operating interruptions (including, but not limited to, labor disputes, leaks, natural disasters, fires, explosions, unscheduled or unplanned downtime, transportation interruptions and cyber attacks);
- Decisions to sell operating assets other than in the ordinary course of business;
- The timing and amounts of insurance recoveries;
- Our ability to renew, amend, refinance or establish credit facilities;
- Our ability to maintain sufficient liquidity;
- The ultimate outcome of income tax audits, tax settlement initiatives or other tax matters;
- Our ultimate ability to utilize income tax attributes, the benefits of which may not presently have been recognized under the more-likely-than-not recognition criteria;
- Environmental matters (such as those requiring compliance with emission and discharge standards for existing and new facilities, or new developments regarding environmental remediation at sites related to our former operations);
- Government laws and regulations and possible changes therein (such as changes in government regulations which might impose various obligations on former manufacturers of lead pigment and lead-based paint, including NL, with respect to asserted health concerns associated with the use of such products);
- The ultimate resolution of pending litigation (such as NL's lead pigment litigation, environmental and other litigation and Kronos' class action litigation);
- Our ability to comply with covenants contained in our revolving bank credit facilities;
- Our ability to complete and comply with the conditions of our licenses and permits;
- Our ability to successfully defend against any possible future challenge to WCS' operating licenses and permits;
- Unexpected delays in the operational start-up of shipping containers procured by WCS;
- Changes in real estate values and construction costs in Henderson, Nevada;
- Water levels in Lake Mead; and
- Possible future litigation.

Should one or more of these risks materialize (or the consequences of such development worsen), or should the underlying assumptions prove incorrect, actual results could differ materially from those currently forecasted or expected. We disclaim any intention or obligation to update or revise any forward-looking statement whether as a result of changes in information, future events or otherwise.

Operations Overview

Quarter Ended September 30, 2016 Compared to the Quarter Ended September 30, 2015—

Net income attributable to Valhi stockholders was \$3.0 million, or \$.01 per diluted share, in the third quarter of 2016 compared to a net loss attributable to Valhi stockholders of \$11.7 million, or \$.03 per diluted share, in the third quarter of 2015. As more fully discussed below, our diluted net income per share increased from 2015 to 2016 primarily due to the net effects of:

- operating loss from our Chemicals Segment in 2015 compared to operating income in 2016;
- An income tax benefit in the third quarter of 2016 related to the execution and finalization of an Advanced Pricing Agreement between the U.S. and Canada associated with our Chemicals Segment; and
- lower operating loss in the third quarter of 2016 in our Waste Management Segment as compared to the third quarter of 2015.

Our net income attributable to Valhi stockholders in the third quarter of 2016 includes income of \$.01 per diluted share related to the execution and finalization of an Advanced Pricing Agreement associated with our Chemicals Segment.

Nine months ended September 30, 2016 Compared to the Nine months ended September 30, 2015 —

Net loss attributable to Valhi stockholders was \$25.0 million, or \$.07 per diluted share, in the first nine months of 2016 compared to \$103.7 million, or \$.30 per diluted share, in the first nine months of 2015. As more fully discussed below, our diluted loss per share decreased from 2015 to 2016 primarily due to the net effects of:

- the recognition of an aggregate \$152.6 million non-cash deferred income tax asset valuation allowance related to our Chemicals Segment's German and Belgian operations in 2015;
- higher operating income from our Chemicals Segment in 2016 compared to 2015, in part due to a charge associated with the implementation of certain workforce reductions in the second quarter of 2015;
- higher operating losses at our Waste Management Segment in 2016;
- lower insurance recoveries in 2016; and
- a non-cash contract related intangible asset impairment charge of \$5.1 million at our Real Estate Management and Development Segment in 2016;

Our net loss attributable to Valhi stockholders in 2016 includes a charge of \$.01 per diluted share related to the contract related intangible asset impairment and income of \$.01 per diluted share related to the execution and finalization of an Advanced Pricing Agreement associated with our Chemicals Segment.

Our net loss attributable to Valhi stockholders in 2015 includes:

- the recognition of the non-cash deferred income tax asset valuation allowance related to our Chemicals Segment's German and Belgian operations aggregating of \$.26 per diluted share;
- a charge of \$.03 per diluted share related to our Chemicals Segment's accrued workforce reduction costs;
- income of \$.01 per diluted share related to income from insurance recoveries; and
- income of \$.01 per diluted share related to a net reduction in our reserve for uncertain tax positions.

Current Forecast for 2016 –

We currently expect to report higher net income attributable to Valhi stockholders for 2016 as compared to 2015 primarily due to the net effects of:

- the 2015 recognition of an aggregate \$152.6 non-cash deferred income tax asset valuation allowance related to the Chemicals Segment's German and Belgium operations (most of which was recognized in the second quarter);

- operating income from our Chemicals Segment in 2016 as compared to an operating loss in 2015, in part due to anticipated costs savings as a result of its workforce reductions (the expense for which was mostly recognized in the second quarter of 2015) and other cost reduction initiatives implemented in 2015; and
- lower expected insurance recoveries received in 2016 compared to 2015.

Segment Operating Results—2015 Compared to 2016 –

Chemicals –

We consider TiO₂ to be a “quality of life” product, with demand affected by gross domestic product, or GDP, and overall economic conditions in our markets located in various regions of the world. Over the long-term, we expect demand for TiO₂ will grow by 2% to 3% per year, consistent with our expectations for the long-term growth in GDP. However, even if we and our competitors maintain consistent shares of the worldwide market, demand for TiO₂ in any interim or annual period may not change in the same proportion as the change in GDP, in part due to relative changes in the TiO₂ inventory levels of our customers. We believe that our customers’ inventory levels are influenced in part by their expectations for future changes in market TiO₂ selling prices as well as their expectations for future availability of product. Although certain of our TiO₂ grades are considered specialty pigments, the majority of our grades and substantially all of our production are considered commodity pigment products, with price and availability being the most significant competitive factors along with quality and customer service.

The factors having the most impact on our reported operating results are:

- our TiO₂ sales and production volumes,
- TiO₂ selling prices,
- manufacturing costs, particularly raw materials such as third-party feedstock ore, maintenance and energy-related expenses, and
- currency exchange rates (particularly the exchange rate for the U.S. dollar relative to the euro, the Norwegian krone and the Canadian dollar).

Our Chemicals Segment’s key performance indicators are our TiO₂ average selling prices, our level of TiO₂ sales and production volumes, and the cost of our third-party feedstock ore. TiO₂ selling prices generally follow industry trends and prices will increase or decrease generally as a result of competitive market pressures.

	Three months ended September 30,			Nine months ended September 30,		
	2015	2016	% Change	2015	2016	% Change
	(Dollars in millions)					
Net sales	\$ 336.5	\$ 356.1	6%	\$ 1,061.8	\$ 1,030.6	(3)%
Cost of sales	293.7	281.1	(4)	896.1	860.6	(4)
Gross margin	\$ 42.8	\$ 75.0	75%	\$ 165.7	\$ 170.0	(3)%
Operating income (loss)	\$ (1.3)	\$ 30.1	2,358%	\$ 24.8	\$ 45.8	85%
Percent of net sales:						
Cost of sales	87%	79%		84%	83%	
Gross margin	13	21		16	17	
Operating income (loss)	–	8		2	4	
TiO ₂ operating statistics:						
Sales volumes*	136	143	6%	406	430	6%
Production volumes*	132	139	5	397	401	1
Percent change in net sales:						
TiO ₂ product pricing			2%			(7)%
TiO ₂ sales volumes			6			6
TiO ₂ product mix			(1)			(1)
Changes in currency exchange rates			(1)			(1)
Total			6%			(3)%

* Thousands of metric tons

Current Industry Conditions – Due to competitive pressures, our Chemicals Segment’s average selling prices decreased throughout 2015 and, to a much lesser extent, into the first quarter of 2016. Our Chemicals Segment’s average selling prices at the beginning of 2016 were 17% lower as compared to the beginning of 2015. In the second quarter of 2016, our Chemicals Segment’s

average selling prices began to rise due to the successful implementation of previously-announced price increases and average selling prices continued to rise through the third quarter. Our Chemicals Segment's average selling prices at the end of the third quarter of 2016 were 6% higher than at the end of the second quarter of 2016 and 8% higher than at the end of 2015, with higher prices in all major markets. We experienced higher sales volumes in European, North American and export markets in the first nine months of 2016 as compared to the same period of 2015, partially offset by lower volumes in the Latin American market.

We operated our Chemicals Segment's production facilities at overall average capacity utilization rates of 97% in the first nine months of 2016 compared to approximately 96% in the first nine months of 2015. The table below lists our comparative quarterly capacity utilization rates.

	Production Capacity Utilization Rates	
	2016	2015
First quarter	97%	93%
Second quarter	95%	100%
Third quarter	100%	95%

Our production rates in the first quarter of 2015 were impacted by the implementation of certain productivity-enhancing improvement projects at certain facilities, as well as necessary improvements to ensure continued compliance with our permit regulations, which resulted in longer-than-normal maintenance shutdowns in some instances.

We experienced moderation in the cost of TiO₂ feedstock ore procured from third parties in 2015 which continued into the first nine months of 2016. Given the time lag between when third-party feedstock ore is purchased and when the TiO₂ product produced with such ore is reflected in our cost of sales, our cost of sales per metric ton of TiO₂ sold declined throughout 2015 and into the first nine months of 2016. Consequently, our Chemicals Segment's cost of sales per metric ton of TiO₂ sold in the first nine months of 2016 was lower than our Chemicals Segment's cost of sales per metric ton of TiO₂ sold in the first nine months of 2015 (excluding the effect of changes in currency exchange rates).

Net sales – Our Chemicals Segment's net sales in the third quarter of 2016 increased 6%, or \$19.6 million, compared to the third quarter of 2015 primarily due to the net effect of a 2% increase in average TiO₂ selling prices (which increased net sales by approximately \$7 million) and a 6% increase in sales volumes (which increased net sales by approximately \$20 million). Our Chemicals Segment's net sales in the first nine months of 2016 decreased 3%, or \$31.2 million, compared to the first nine months of 2015 primarily due to the net effect of an 7% decrease in average TiO₂ selling prices (which decreased net sales by approximately \$74 million) and a 6% increase in sales volumes (which increased net sales by approximately \$64 million). TiO₂ selling prices will increase or decrease generally as a result of competitive market pressures, changes in the relative level of supply and demand as well as changes in raw material and other manufacturing costs.

Our Chemicals Segment's sales volumes increased 6% in the third quarter of 2016 as compared to the third quarter of 2015 primarily due to higher sales in North American and export markets, partially offset by lower sales in Latin America. Our sales volumes in the third quarter of 2016 set a new overall record for a third quarter (our sales volumes in the second quarter of 2016 also set a new overall record for a second quarter). In addition to the impact of changes in average TiO₂ selling prices and sales volumes, we estimate that changes in currency exchange rates (primarily the euro) decreased our net sales by approximately \$2 million as compared to the third quarter of 2015. Our Chemicals Segment's sales volumes increased 6% in the first nine months of 2016 as compared to the first nine months of 2015 primarily due to higher sales in European, North American and export markets, partially offset by lower sales in Latin America. Our sales volumes in the first nine months of 2016 set a new overall record for a first-nine-months period. In addition to the impact of changes in average TiO₂ selling prices and sales volumes, we estimate that changes in currency exchange rates decreased our net sales by approximately \$8 million as compared to the first nine months of 2015.

Cost of Sales – Our Chemicals Segment's cost of sales decreased 4% in the third quarter of 2016 compared to the third quarter of 2015 due to the net impact of lower raw materials and other production costs of approximately \$20 million (primarily lower third-party feedstock ore costs), a 6% increase in sales volumes, a 5% increase in TiO₂ production volumes, and currency fluctuations (primarily the euro). Our Chemicals Segment's cost of sales decreased 4% in the first nine months of 2016 compared to the same period in 2015 primarily due to the net impact of lower raw materials and other production costs of approximately \$43 million (primarily lower third-party feedstock ore costs), approximately \$4.5 million in savings resulting from workforce reductions implemented in 2015, a 6% increase in sales volumes, and currency fluctuations (primarily the euro). Most of such \$4.5 million of savings were recognized in the first six months of 2016, as a substantial portion of the workforce reductions had been implemented by July 1, 2015. Our cost of sales in the first nine months of 2015 includes approximately \$10.7 million of severance costs related to workforce reductions recognized in the second quarter.

Our Chemicals Segment's cost of sales as a percentage of net sales decreased to 79% in the third quarter of 2016 compared to 87% in the same period of 2015 due to the favorable effects of average selling prices, higher production volumes and lower raw materials and other production costs. Our Chemicals Segment's cost of sales as a percentage of net sales decreased to 83% in the first nine months of 2016 compared to 84% in the same period of 2015, as the favorable effects of lower raw materials and other production costs and the impact of the \$10.7 million second quarter 2015 workforce reduction charge classified in cost of sales and associated cost savings from such workforce reduction realized in the first nine months of 2016 were offset by the unfavorable impact of lower average selling prices, as discussed above.

Gross Margin and Operating Income – Our Chemicals Segment's operating income increased \$31.4 million, from an operating loss of \$1.3 million in the third quarter of 2015 to operating income of \$30.1 million the third quarter of 2016 and operating income as a percentage of net sales increased to 8% in the third quarter of 2016 from nil in the same period of 2015. This increase was driven by the increase in gross margin percentage, which increased to 21% for the third quarter of 2016 compared to 13% for the third quarter of 2015. As discussed and quantified above, our Chemicals Segment's gross margin percentage increased primarily due to the net effect of higher selling prices, lower raw material and other production costs, higher sales volumes and higher production volumes. We estimate that changes in currency exchange rates increased operating income by approximately \$2 million in the third quarter of 2016 as compared to the same period in 2015, as discussed below.

Our Chemicals Segment's operating income increased by \$21.0 million compared to the first nine months of 2015. Our Chemicals Segment's operating income as a percentage of net sales increased to 4% in the first nine months of 2016 from 2% in the same period of 2015. This increase was driven by the increase in gross margin, which increased to 17% for the first nine months of 2016 compared to 16% for the first nine months of 2015, as well as the impact of the \$10.8 million 2015 workforce reduction charge classified in selling, general and administrative expense and the associated cost savings from such workforce reductions realized in the first nine months of 2016 of \$5.5 million. As discussed and quantified above, our Chemicals Segment's gross margin increased primarily due to the net effect of lower selling prices, lower raw material and other production costs (including 2015 workforce reduction charges of \$10.7 million classified as cost of sales and the associated \$4.5 million of cost savings from such workforce reduction realized in 2016) and higher sales volumes. We estimate that changes in currency exchange rates increased our Chemicals Segment's operating income by approximately \$13 million in the first nine months of 2016 as compared to the same period in 2015.

Our Chemicals Segment's operating income is net of amortization of purchase accounting adjustments made in conjunction with our acquisitions of interests in NL and Kronos. As a result, we recognize additional depreciation expense above the amounts Kronos reports separately, substantially all of which is included within cost of sales. We recognized additional depreciation expense of \$1.6 million in each of the first nine months of 2015 and 2016 which reduced our reported Chemicals Segment's operating income as compared to amounts reported by Kronos.

Currency Exchange Rates – Our Chemicals Segment has substantial operations and assets located outside the United States (primarily in Germany, Belgium, Norway and Canada). The majority of our sales from non-U.S. operations are denominated in currencies other than the U.S. dollar, principally the euro, other major European currencies and the Canadian dollar. A portion of our sales generated from our non-U.S. operations is denominated in the U.S. dollar (and consequently our non-U.S. operations will generally hold U.S. dollars from time to time). Certain raw materials used in all our production facilities, primarily titanium-containing feedstocks, are purchased in U.S. dollars, while labor and other production and administrative costs are incurred primarily in local currencies. Consequently, the translated U.S. dollar value of our non-U.S. sales and operating results are subject to currency exchange rate fluctuations which may favorably or unfavorably impact reported earnings and may affect the comparability of period-to-period operating results. In addition to the impact of the translation of sales and expenses over time, our non-U.S. operations also generate currency transaction gains and losses which primarily relate to (i) the difference between the currency exchange rates in effect when non-local currency sales or operating costs (primarily U.S. dollar denominated) are initially accrued and when such amounts are settled with the non-local currency, (ii) changes in currency exchange rates during time periods when our non-U.S. operations are holding non-local currency (primarily U.S. dollars), and (iii) relative changes in the aggregate fair value of currency forward contracts held from time to time. As discussed in Note 17 to our Condensed Consolidated Financial Statements, we periodically use currency forward contracts to manage a portion of our currency exchange risk, and relative changes in the aggregate fair value of any currency forward contracts we hold from time to time serves in part to mitigate the currency transaction gains or losses we would otherwise recognize from the first two items described above.

Overall, we estimate that fluctuations in currency exchange rates had the following effects on the reported amounts of our sales and operating income for the periods indicated.

Impact of changes in currency exchange rates three months ended September 30, 2016 vs. September 30, 2015

	Transaction losses recognized			Translation gain/(loss) impact of rate changes	Total currency impact 2016 vs. 2015
	2015	2016	Change		
	(In millions)				
Impact on:					
Net sales	\$ —	\$ —	\$ —	\$ (2)	\$ (2)
Operating income (loss)	(1)	(1)	—	2	2

The \$2 million decrease in net sales (translation loss) was caused primarily by a strengthening of the U.S. dollar relative to the euro, as our euro-denominated sales were translated into less U.S. dollars in 2016 as compared to 2015. The strengthening of the U.S. dollar relative to the Canadian dollar and the Norwegian krone in 2016 did not have a significant effect on the reported amount of our net sales, as a substantial portion of the sales generated by our Canadian and Norwegian operations are denominated in the U.S. dollar.

The \$2 million net increase in operating income is comprised primarily of approximately \$2 million from net currency translation gains caused primarily by a strengthening of the U.S. dollar relative to the Canadian dollar and the Norwegian krone, as their local currency denominated operating costs were translated into fewer U.S. dollars in 2016 as compared to 2015, (and such translation, as it related to the U.S. dollar relative to the euro, had a negative effect on operating income in 2016 as compared to 2015, as the negative impact of the stronger U.S. dollar on euro-denominated sales more than offset the favorable effect of euro-denominated operating costs being translated into less U.S. dollars in 2016 as compared to 2015).

Impact of changes in currency exchange rates nine months ended September 30, 2016 vs. September 30, 2015

	Transaction gains recognized			Translation gain/(loss) impact of rate changes	Total currency impact 2015 vs. 2014
	2015	2016	Change		
	(In millions)				
Impact on:					
Net sales	\$ —	\$ —	\$ —	\$ (8)	\$ (8)
Operating income	1	3	2	11	13

The \$8 million reduction in net sales (translation loss) was caused primarily by a strengthening of the U.S. dollar relative to the euro, as our euro-denominated sales were translated into fewer U.S. dollars in 2016 as compared to 2015. The strengthening of the U.S. dollar relative to the Canadian dollar and the Norwegian krone in 2016 did not have a significant effect on the reported amount of our net sales, as a substantial portion of the sales generated by our Canadian and Norwegian operations are denominated in the U.S. dollar.

The \$13 million net increase in operating income comprised the following:

- approximately \$2 million from net currency transaction gains caused primarily by a strengthening of the U.S. dollar relative to the euro, the Norwegian krone and the Canadian dollar, as U.S. dollar-denominated receivables and U.S. dollar currency held by our non-U.S. operations became equivalent to a greater amount of local currency in the 2016 period as compared to the 2015 period, and
- approximately \$11 million from net currency translation gains caused primarily by a strengthening of the U.S. dollar relative to the Canadian dollar and the Norwegian krone, as their local currency denominated operating costs were translated into fewer U.S. dollars in 2016 as compared to 2015, (and such translation, as it related to the U.S. dollar relative to the euro, had a negative effect on operating income in 2016 as compared to 2015, as the negative impact of the stronger U.S. dollar on euro-denominated sales more than offset the favorable effect of euro-denominated operating costs being translated into fewer U.S. dollars in 2016 as compared to 2015).

Outlook – During the first nine months of 2016 we operated our Chemicals Segment’s production facilities at 97% of practical capacity. We expect our Chemicals Segment’s production volumes to be higher in 2016 as compared to 2015, as our Chemicals Segment’s production rates in 2015 were impacted by the implementation of certain productivity-enhancing improvement projects at certain facilities, as well as necessary improvements to ensure continued compliance with our permit regulations, which resulted in

longer-than-normal maintenance shutdowns in some instances. Assuming global economic conditions do not deteriorate, we expect our sales volumes to be higher in 2016 as compared to 2015. We will continue to monitor current and anticipated near-term customer demand levels and align our production and inventories accordingly.

We experienced moderation in the cost of TiO₂ feedstock ore procured from third parties in 2015 which continued into the first nine months of 2016. Given the time lag between when third-party feedstock ore is purchased and when the TiO₂ product produced with such ore is reflected in our Chemicals Segment's cost of sales, our Chemicals Segment's cost of sales per metric ton of TiO₂ sold in the first nine months of 2016 was lower than our Chemicals Segment's cost of sales per metric ton of TiO₂ sold in the first nine months of 2015 (excluding the effect of changes in currency exchange rates). We expect our Chemicals Segment's cost of sales per metric ton of TiO₂ sold for the full year of 2016 will be lower than our per-metric ton cost in the comparable periods of 2015, due in part to the favorable effect of the workforce reductions and other cost reduction initiatives we implemented beginning in the second quarter of 2015 as well as some expected additional modest improvement in the cost of feedstock ore.

We started 2016 with TiO₂ selling prices 17% lower than the beginning of 2015, and TiO₂ prices declined by an additional 1% in the first quarter of 2016. In the second quarter of 2016, our Chemicals Segment's average selling prices began to rise due to the implementation of previously-announced price increases and average selling prices continued to rise in the third quarter. Our Chemicals Segment's average selling prices at the end of the third quarter of 2016 were 6% higher than at the end of the second quarter of 2016, and 8% higher than at the end of 2015 but still lower than the beginning of 2015. Industry data indicates that overall TiO₂ inventory held by producers declined significantly during 2015. In addition, we believe most customers hold very low inventories of TiO₂ with many operating on a just-in-time basis. With the strong sales volumes experienced in the first nine months of 2016, we continue to see evidence of strengthening demand for our TiO₂ products in certain of our primary markets. We and our major competitors have announced price increases, which we began implementing in the second quarter of 2016, as contracts have allowed. The extent to which we will be able to achieve any additional price increases in the near term will depend on market conditions.

Our Chemicals Segment initiated a restructuring plan in 2015 designed to improve its long-term cost structure. As part of such plan, our Chemicals Segment's implemented certain voluntary and involuntary workforce reductions during 2015 at certain of its facilities impacting approximately 160 individuals. Such workforce reductions are expected to result in approximately \$19 million of annual cost savings. Since the majority of workforce reductions had been implemented by July 1, 2015, the full year 2016 will not reflect this annual cost savings, as a portion of such annual cost savings were achieved in the second half of 2015 affecting year over year comparisons. These workforce reductions are not expected to negatively impact our ability to operate our production facilities at their practical capacity rates. In addition to the workforce reductions implemented in 2015, our Chemicals Segment is also in the process of implementing other cost reduction initiatives throughout the organization, including the implementation of continued process productivity improvements.

Overall, we expect our Chemicals Segment's operating income in 2016 will be higher as compared to 2015 as a result of:

- the favorable effects of anticipated higher sales and production volumes in 2016,
- the favorable effect of lower-cost third party feedstock ore,
- the expected cost savings from workforce reductions, absence of restructuring fees paid in 2015, and other cost reduction initiatives throughout the organization, and
- the expected implementation of price increases.

Due to the constraints of high capital costs and extended lead time associated with adding significant new TiO₂ production capacity, especially for premium grades of TiO₂ products produced from the chloride process, we believe increased and sustained profit margins will be necessary to financially justify major expansions of TiO₂ production capacity required to meet expected future growth in demand. As a result of relative customer inventory levels during the recent past and the resulting adverse effect on global TiO₂ pricing, some industry projects to increase TiO₂ production capacity have been cancelled or deferred indefinitely, and announcements have been made regarding the closure of certain facilities. Given the lead time required for production capacity expansions, a shortage of TiO₂ could occur if economic conditions improve and global demand levels for TiO₂ increase sufficiently.

Our expectations for our Chemicals Segment's future operating results are based upon a number of factors beyond our control, including worldwide growth of gross domestic product, competition in the marketplace, continued operation of competitors, unexpected or earlier-than-expected capacity additions or reductions and technological advances. If actual developments differ from our expectations, our results of operations could be unfavorably affected.

Component Products –

Our Component Products Segment's product offerings consist of a significantly large number of products that have a wide variation in selling price and manufacturing cost, which results in certain practical limitations on our ability to quantify the impact of changes in individual product sales quantities and selling prices on our net sales, cost of sales and gross margin. In addition, small variations in period-to-period net sales, cost of sales and gross margin can result from changes in the relative mix of our products sold. The key performance indicator for our Component Products Segment is operating income margins.

	Three months ended September 30,			Nine months ended September 30,		
	2015	2016	% Change	2015	2016	% Change
Net sales	\$ 26.5	\$ 28.4	7%	\$ 83.3	\$ 82.6	(1)%
Cost of sales	18.4	19.0	3	57.5	56.5	(2)
Gross margin	\$ 8.1	\$ 9.4	16%	\$ 25.8	\$ 26.1	1%
Operating income	\$ 3.4	\$ 4.4	30%	\$ 11.4	\$ 11.5	1%
Percent of net sales:						
Cost of sales	69%	67%		69%	68%	
Gross margin	31	33		31	32	
Operating income	13	16		14	14	

Net Sales – Our Component Products Segment's net sales increased \$1.9 million in the third quarter of 2016 compared to the third quarter of 2015 primarily due to higher sales of security products to existing government customers of \$1.2 million. As previously disclosed, Component Products Segment's net sales in 2015 included substantial project related sales for a government security end-user that, as expected, did not recur in 2016. During the third quarter of 2016, our Components Product Segment was awarded a substantial new project for the same customer which began to ship in August and is expected to continue through the end of the year. Third quarter sales under the new initiative were slightly greater than the \$1.7 million of nonrecurring project related sales realized in the third quarter of 2015. This offset to the prior year nonrecurring revenue, along with higher sales to other existing government customers and improved sales to distribution customers contributed to the third quarter increase in sales of security products over 2015. Net sales of marine components increased \$.3 million in the third quarter of 2016 compared to the same period of 2015 primarily due to improved demand for products sold to the waterski/wakeboard boat market.

Our Component Products Segment's net sales decreased \$.7 million in the first nine months of 2016 compared to the same period in 2015, primarily due to security products sales in 2015 to the aforementioned government security end-user project of approximately \$4.9 million in 2015 that, as expected, did not recur in 2016. For the nine months ended June 2016, the decrease in security products sales was partially offset by increased marine components sales which increased 8% compared to the same period of 2015 due to improved demand for products sold to the waterski/wakeboard boat market.

Relative changes in selling prices did not have a material impact on net sales comparisons for either period.

Cost of Sales, Gross Margin and Operating Income – Our Component Products Segment's cost of sales as a percentage of sales decreased 2% in the third quarter of 2016 compared to the same period in 2015 due to manufacturing efficiencies and fixed cost leverage resulting from increased manufacturing volume. As a result, gross margin as a percentage of net sales increased over the same period. As a percentage of net sales, cost of sales for the first nine months of 2016 decreased slightly compared to the same period in 2015 due to the operating improvements resulting from the favorable third quarter volumes. As a result, gross margin as a percentage of net sales increased over the same period. Gross margin dollars increased \$1.3 million for the third quarter of 2016 due to higher sales in the security products reporting unit. Gross margin dollars for the first nine months of 2016 are comparable to the same period in 2015. Operating costs and expenses consist primarily of sales and administrative related personnel costs, sales commissions and advertising expenses, as well as gains and losses on plant, property and equipment. Operating costs and expenses for the third quarter and first nine months of 2016 were comparable to the same periods in 2015.

Outlook – Our Component Products Segment's security products sales for the first nine months of 2016 trail the comparable prior year period by only \$1.5 million despite approximately \$4.9 million in 2015 sales related to a government security end-user project which did not recur in 2016. The revenue offset has been achieved primarily through increased sales to existing government customers and the substantial new project for a government customer that began shipping in August and is expected to be completed by the end of the year. Security Product sales to distributors have been marginally improved in 2016, while sales to OEM customers have been relatively flat, reflecting general economic conditions. We continue to benefit from innovation and diversification in our

product offerings, particularly in the recreational boat markets served by our Marine Components segment. In the absence of significant change in general economic conditions, full year sales for 2016 are expected to approach 2015 levels.

We will continue to monitor general economic conditions and sales order rates and respond to fluctuations in customer demand through continuous evaluation of staffing levels and consistent execution of our lean manufacturing and cost improvement initiatives. Additionally, we continue to seek opportunities to gain market share in existing markets, to expand into new markets and to further develop new and current customers, products, and features in order to mitigate the impact of changes in demand and broaden our sales base.

Waste Management –

On November 18, 2015, we entered into an agreement with Rockwell Holdco, Inc. ("Rockwell"), for the sale of WCS to Rockwell for \$270 million in cash, \$20 million face amount in Series A Preferred Stock of Rockwell plus the assumption of all of WCS' third-party indebtedness incurred prior to the date of the agreement. Additionally, Rockwell and its affiliates will assume all financial assurance obligations related to the WCS business. Rockwell is the parent company of EnergySolutions, Inc. Completion of the sale is subject to certain customary closing conditions, including the receipt of U.S. anti-trust approval. Assuming all closing conditions are satisfied, the sale expected to close in the first half of 2017. There can be no assurance, however, that all closing conditions will be satisfied, or that any such sale of WCS would be completed.

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(In millions)			
Net sales	\$ 9.9	\$ 13.6	\$ 34.9	\$ 29.9
Cost of sales	13.3	14.1	37.8	39.4
Gross margin	\$ (3.4)	\$ (5)	\$ (2.9)	\$ (9.5)
Operating loss	\$ (8.3)	\$ (5.1)	\$ (19.3)	\$ (23.0)

General—In May 2008, the TCEQ issued us a license for the disposal of byproduct material. Byproduct material includes uranium or thorium mill tailings as well as equipment, pipe and other materials used to handle and process the mill tailings. We began construction of the byproduct facility infrastructure at our site in Andrews County, Texas in the second quarter of 2008, and this facility began disposal operations in October 2009. In January 2009, the TCEQ issued a near-surface LLRW disposal license to us. This license was signed in September 2009. Construction of the Compact and Federal LLRW sites began in January 2011. The Compact LLRW site was fully certified and operational in April 2012, and the Federal LLRW site was fully certified and operational in September 2012 and received its first waste for disposal in the latter part of the second quarter of 2013.

Net Sales and Operating Loss—The Waste Management Segment's net sales increased \$3.7 million in the third quarter of 2016 compared to the same period of 2015 but decreased \$5.0 million in the first nine months of 2016 compared to the same period in 2015. Disposal volumes for the third quarter and first nine months of 2016 were negatively impacted by a general industry wide slowdown in shipments of waste for disposal, although mix of higher level of radioactivity and therefore disposal price was greater in the third quarter of 2016 as compared to the same period in 2015. Such decline in disposal volumes was offset by an increase in transportation related revenue in 2016 as we seek to increase our logistical capabilities to better manage customer disposal shipments; however, increases in transportation revenue also add to our cost of sales as we generally pass through actual logistics costs plus a service fee to our customers. In addition we benefited from a one-time disposal campaign related to the decommissioning of a nuclear power plant which contributed \$4.8 million of revenue in the first nine months of 2015, primarily in the first quarter. Higher revenue in the third quarter of 2016 resulted in better coverage of fixed costs as compared to the same period of 2015, and the third quarter also benefited from lower selling, general and administrative expenses as we are actively taking measures to control costs, where possible. As a result, our Waste Management Segment had a lower operating loss in the third quarter of 2016 than the same period of 2015. Lower disposal volumes in the first nine months of 2016 resulted in lower coverage of fixed costs as compared to the same period of 2015 somewhat offset by lower selling, general and administrative expenses noted above. As a result, our Waste Management Segment had a higher operating loss in the first nine months of 2016 than in the same period of 2015.

We recognized an operating loss in our Waste Management Segment in all prior years because we have not yet achieved sufficient revenues to offset the high cost structure associated with operating under our byproduct and LLRW disposal licenses relative to the waste treatment and disposal volume, in part because we have not consistently received sufficient volume of LLRW for disposal in both our Compact and Federal LLRW disposal facilities to overcome our fixed operating cost structure. We continue to seek to increase our Waste Management Segment's sales volumes from waste streams permitted under our current licenses.

Outlook— With both of the Compact LLRW disposal facility and the Federal LLRW disposal facility certified and operational, we provide "one-stop shopping" for treatment, storage and disposal of hazardous, toxic, LLRW and radioactive byproduct material.

WCS has the broadest range of capabilities of any commercial enterprise in the U.S. for the storage, treatment and permanent disposal of these materials, which we believe gives WCS a competitive advantage in the industry. We are also exploring opportunities to obtain certain types of new business (including disposal and storage of certain other types of waste) that, if obtained, could increase our Waste Management Segment's sales and decrease our Waste Management Segment's operating loss. One of these opportunities is a consolidated interim storage license for the storage of high level waste such as used nuclear fuel from nuclear power plants. WCS filed a license application with the Nuclear Regulatory Commission on April 28, 2016 to begin the process to potentially obtain a license for such interim storage services. There is no assurance that a license will be granted or that the U.S. DOE will enter into a contract to utilize such services. If such a license were to be granted to WCS and a storage agreement were to be entered into with the U.S. DOE, storage revenue under the license revenue would not be expected to begin until 2021 or later.

Our ability to increase our Waste Management Segment's sales volumes through these waste streams, particularly as it relates to the Compact and Federal LLRW disposal facilities, together with improved operating efficiencies through cost reductions and increased capacity utilization, are important factors in improving our Waste Management operating results and cash flows. We have obtained long-term disposal contracts with several waste generators and are actively pursuing additional contracts. We were awarded a national disposal contract for our Federal LLRW disposal facility in April 2013. The contract is for a period of five years and up to \$300 million; however, tasks awarded under the contract to date have been for smaller dollar-value waste streams. We have regularly received waste for disposal since the end of the second quarter of 2013 for the Federal LLRW disposal facility, but it may be difficult for us to generate positive operating results until we begin routinely receiving larger Federal LLRW streams for disposal. In addition we are dependent on large commercial projects in order to receive sufficient disposal volumes to operate the Compact LLRW disposal facility at full capacity. Large projects, both federal and commercial, are infrequent and are subject to a competitive bidding and delays in the expected time line for waste disposal to be completed. While we are the only commercial facility licensed to take Class A, B and C LLRW and Mixed LLRW (LLRW mixed with hazardous waste) other facilities can accept Class A waste including facilities that in some circumstances mix waste in such a way that some Class B and Class C waste may meet the Class A disposal requirements at these facilities.

With the receipt of our recent license amendments and our dedicated shipping containers now in service, including containers we leased in July 2015, we believe we are positioned to take full advantage of our disposal facilities going forward for any federal or commercial waste which we would be successful in obtaining. We have increased our logistical handling capabilities in order to more fully serve our customers and better facilitate their disposal shipments going forward. However, in part because certain large commercial generators choose to store waste onsite rather than dispose of usch waste and in part because of the competitive nature of obtaining federal or commercial waste for disposal, we do not know if these efforts will succeed in increasing our disposal volumes. There can be no assurance that WCS will be able to achieve sufficient recurring disposal volumes to generate positive operating results or cash flows.

We have in the past considered and evaluated various strategic alternatives with respect to our Waste Management Segment. With respect to the pending sale transaction noted above, we expect to recognize a gain if such pending transaction is successfully closed. If such pending sale transaction were not to be successfully closed, we would in the future continue to consider and evaluate various other alternatives with respect to our Waste Management Segment, some of which could result in the recognition of a material loss as required under GAAP, such as long-lived asset impairments. At September 30, 2016 the Segment's long-lived assets aggregated \$185.8 million.

Real Estate Management and Development –

	Three months ended September 30,		Nine months ended September 30,	
	2015	2016	2015	2016
	(In millions)			
Net sales	\$ 10.3	\$ 8.7	\$ 28.1	\$ 15.8
Cost of sales	8.0	7.3	21.3	12.9
Gross margin	\$ 2.3	\$ 1.4	\$ 6.8	\$ 2.9
Operating income (loss)	\$ 1.2	\$.3	\$ 2.6	\$ (5.1)

General — LandWell is actively engaged in efforts to develop certain real estate in Henderson, Nevada; including approximately 2,100 acres zoned for residential/planned community purposes and approximately 400 acres zoned for commercial and light industrial use. Over the years, LandWell and BMI have focused on developing and selling the land transferred to LandWell as part of its formation in the early 1950s as well as additional land holdings acquired by LandWell in the surrounding area subsequent to LandWell's formation (although BMI and LandWell have not had significant real property acquisitions since 2004). Since LandWell's formation, LandWell and BMI have a history of successfully developing and selling over 1,200 acres of retail, light industrial, commercial and residential projects in the Henderson, Nevada area. LandWell has been primarily focusing on the

development of a large tract of land in Henderson zoned for residential/planned community purposes (approximately 2,100 acres). Planning and zoning work on such project began in 2007, and LandWell began intensive development efforts of the residential/planned community in 2013 (with BMI acting as the master developer for all such development efforts).

Since our acquisition of a controlling interest in December 2013, LandWell has closed or entered into escrow on approximately 460 acres of the residential/planned community and certain other acreage. Contracts for land sales are negotiated on an individual basis and sales terms and prices will vary based on such factors as location (including location within a planned community), expected development work, and individual buyer needs. Although land may be under contract, we do not recognize revenue until we have satisfied the criteria for revenue recognition set forth in ASC Topic 976 (percentage-of-completion method of revenue recognition). In some instances, we will receive cash proceeds at the time the contract closes and record deferred revenue for some or all of the cash amount received, with such deferred revenue being recognized in subsequent periods. Because land held for development was initially recognized at estimated fair value at the acquisition date as required by ASC Topic 805, we do not expect to recognize significant operating income on land sales for the land currently under contract. We expect the development work to continue for 10 to 15 years on the rest of the land held for development, especially the remainder of the residential/planned community.

Net Sales and Operating Loss — A substantial portion of the net sales from our Real Estate Management and Development segment in the third quarter of 2015 and 2016 consisted of revenues from land sales. We recognized \$6.6 million and \$9.8 million in revenues on land sales during the third quarter and first nine months of 2016, respectively, compared to \$7.9 million and \$21.3 million in the same periods of 2015. The contracts on these sales (both within the planned community and otherwise) include approximately 285 acres of the residential planned community and certain other acreage which closed in December 2013 and through the third quarter of 2016. Cost of sales related to land sales revenues was \$5.9 million and \$8.8 million in the third quarter and first nine months of 2016, respectively, compared to \$6.5 million and \$17.1 million in the same periods of 2015. We have several residential builders actively building new homes in our community, from land sale contracts which have closed over the past several quarters. However, the level of our infrastructure work in 2016 has slowed down as compared to 2015 and 2014, as we have substantially completed work needed to support the superpads under construction. In the third quarter of 2016 we closed on a large commercial retail parcel within the residential planned community, and because a large portion of the work for the overall phase had previously been completed we were able to recognize a commensurate percentage of the land sale as revenue immediately at close. As noted above, our income recognition under the percentage-of-completion method is largely driven on actual development costs towards the entire project phase. Certain new parcels within the residential planned community are expected to close during the fourth quarter of this year or in the first half of 2017, and consequently we currently expect our level of revenue recognized would increase as well over the next few quarters.

The remainder of net sales and cost of sales related to this segment primarily relates to water delivery fees and expenses. We deliver water to several customers under long-term contracts. In this regard in January 2016 we amended our water delivery contract with the City of Henderson, Nevada. As a result we recognized a contract related intangible asset impairment of \$5.1 million in the first quarter of 2016 (\$2.1 million, or \$.01 per diluted share, net of income tax benefit and noncontrolling interest), see Note 7 to our Condensed Consolidated Financial Statements. Based on the contract amendment we expect annual water sales will be approximately \$1 million lower than 2015 levels but cost of sales related to water delivery are generally expected to be relatively consistent from period to period.

Outlook — Having obtained a controlling interest in BMI and LandWell in December 2013, we are actively pursuing opportunities to maximize cash proceeds from the sale of our land held for development. In the near term, we are focused on developing and selling land we manage, primarily to residential builders, for the approximately 2,100 acres zoned for residential/planned community in Henderson, Nevada. In addition during July of 2016 we entered into escrow agreements with builders on several residential parcels that are expected to close in late 2016 or in the first half of 2017. We expect the development work for the residential/planned community to continue over the next several years, including those parcels currently under contract for which the development work is expected to be completed in 2017. As noted above, we do not expect to recognize significant amounts of operating income related to these sales for the parcels currently under contract; however, we do expect to generate cash proceeds from these sales in excess of our acquisition costs, which proceeds are expected to be used, in part, to fund ongoing development work for the remainder of these properties.

General Corporate Items, Interest Expense, Income Taxes and Noncontrolling Interest—2016 Compared to 2015

Interest and Dividend Income — A significant portion of our interest and dividend income in both 2016 and 2015 relates to the distributions we received from The Amalgamated Sugar Company LLC. We recognized dividend income from the LLC of \$6.3 million and \$19.0 million in each of the third quarter and first nine months of 2016 and 2015, respectively.

Insurance Recoveries — Insurance recoveries relate to agreements NL has with certain insurance carriers pursuant to which the carriers reimburse NL for a portion of its past lead pigment and asbestos litigation defense costs. Insurance recoveries include amounts NL received from these insurance carriers. Substantially all of the \$3.5 million insurance recoveries we recognized in the first nine months of 2015 relate to a first quarter 2015 settlement NL reached with one of its insurance carriers in which they agreed to reimburse NL for a portion of our past litigation defense costs.

The agreements with certain of NL's insurance carriers also include reimbursement for a portion of our future litigation defense costs. We are not able to determine how much NL will ultimately recover from these carriers for defense costs incurred by NL because of certain issues that arise regarding which defense costs qualify for reimbursement. Accordingly, these insurance recoveries are recognized when the receipt is probable and the amount is determinable. See Note 16 to our Condensed Consolidated Financial Statements.

Corporate Expenses and Other Items, Net – Corporate expenses were 9% lower in the third quarter of 2016, primarily due to lower administrative costs in 2016 somewhat offset by higher environmental remediation and related costs in the third quarter of 2016. Corporate expenses were flat in the first nine months of 2016 compared to the same period of 2015, as lower litigation and related expenses and administrative costs were offset by higher environmental and related costs in the first nine months of 2016 compared to 2015. Included in corporate expenses are:

- litigation and related costs at NL of \$.6 million in the third quarter of 2016 compared to \$.9 million in the third quarter of 2015 and \$2.3 million in the first nine months of 2016 compared to \$3.7 million in the first nine months of 2015; and
- environmental remediation and related costs of \$2.6 million in the third quarter of 2016 compared to \$.3 million in third quarter of 2015 and \$5.7 million in the first nine months of 2016 compared to \$2.9 million in the first nine months of 2015.

The level of our litigation and related costs varies from period to period depending upon, among other things, the number of cases in which we are currently involved, the nature of such cases and the current stage of such cases (e.g. discovery, pre-trial motions, trial or appeal, if applicable). See Note 16 to our Condensed Consolidated Financial Statements. If our current expectations regarding the number of cases in which we expect to be involved during 2016, or the nature of such cases, were to change, our corporate expenses could be higher than we currently estimate.

Obligations associated with environmental remediation and related matters are difficult to assess and estimate, and it is possible that actual costs will exceed accrued amounts or that costs will be incurred in the future for sites in which we cannot currently estimate our liability. If these events were to occur in the remainder of 2016, our corporate expenses would be higher than we currently estimate. In addition, we adjust our accruals for environmental remediation and related matters as further information becomes available to us or as circumstances change. Such further information or changed circumstances could result in an increase or reduction in our accrued costs. See Note 16 to our Condensed Consolidated Financial Statements.

Overall, we currently expect that our net general corporate expenses in 2016 will be comparable in 2015 primarily due to lower expected environmental remediation and related costs and lower litigation and related costs.

Interest Expense – Interest expense increased to \$15.9 million in the third quarter of 2016 from \$14.4 million in the third quarter of 2015 and to \$47.4 million in the first nine months of 2016 from \$43.5 million in the same period of 2015 primarily due to higher average debt balances outstanding and higher average interest rates during 2016 compared to the same periods of 2015, and the impact of the interest rate swap contract entered into by our Chemicals Segment effective September 30, 2015. See Note 17 to our Condensed Consolidated Financial Statements. We currently expect our interest expense for all of 2016 will be higher as compared to 2015, due to higher overall average debt levels and higher average interest rates on outstanding borrowings, and the impact of such interest rate swap contract.

Income Tax Expense (Benefit) – Our tax rate varies as the contribution of income from our business units change. We had income tax expense of \$2.6 million in the third quarter of 2016 compared to an income tax benefit of \$9.5 million in the third quarter of 2015 and an income tax benefit of \$5.8 million in the first nine months of 2016 compared to income tax expense of \$105.4 million in the first nine months of 2015. Our income tax expense in the third quarter of 2016 includes a \$5.5 million current income tax benefit related to the execution and finalization of an Advance Pricing Agreement between the U.S. and Canada associated with our Chemicals Segment. As discussed below, our income tax expense in the first nine months of 2015 and 2016 includes a non-cash deferred income tax expense of \$152.6 million and \$2.1 million, respectively, related to the recognition of a deferred income tax asset valuation allowance for our Chemicals Segment's German and Belgian operations. Our income tax expense in the first nine months of 2015 also includes a non-cash income tax benefit of \$2.4 million primarily related to the release of a portion of our reserve for uncertain tax positions due to the expiration of the applicable statute of limitations, most of which was recognized in the first quarter. For interim financial reporting purposes, we apply an effective tax rate methodology in determining our provision for income taxes. Generally, we expect the effective tax rate associated with our non-U.S. earnings to be lower than our U.S. statutory tax rate of 35%. The reduction in our effective income tax rate in the first nine months of 2016 as compared to the same period in 2015 is primarily due to the net effects of (i) the non-cash deferred income tax asset valuation allowance recognized in both periods, as discussed below, (ii) the non-cash deferred income tax benefit recognized in 2015 and the non-cash deferred income tax expense recognized in 2016, in each case related to our direct investment in Kronos, as discussed below, (iii) the reduction in our reserve for uncertain tax positions recognized in the first nine months of 2015, (iv) the current income tax benefit recognized in the third quarter

of 2016 related to the execution and finalization of an Advance Pricing Agreement between the U.S. and Canada associated with our Chemicals Segment and (v) a decrease in 2016 in our incremental taxes associated with our non-U.S. operations.

Our Chemicals Segment has substantial net operating loss (“NOL”) carryforwards in Germany (the equivalent of \$683 million for German corporate purposes and \$96 million for German trade tax purposes, respectively, at December 31, 2015) and in Belgium (the equivalent of \$86 million for Belgian corporate tax purposes at December 31, 2015), all of which have an indefinite carryforward period. As a result, we have net deferred income tax assets with respect to these two jurisdictions, primarily related to these NOL carryforwards. The German corporate tax is similar to the U.S. federal income tax, and the German trade tax is similar to the U.S. state income tax. Prior to June 30, 2015, and using all available evidence, we had concluded no deferred income tax asset valuation allowance was required to be recognized with respect to these net deferred income tax assets under the more-likely-than-not recognition criteria, primarily because (i) the carryforwards have an indefinite carryforward period, (ii) we utilized a portion of such carryforwards during the most recent three-year period, and (iii) we expected to utilize the remainder of the carryforwards over the long term. We had also previously indicated that facts and circumstances could change, which might in the future result in the recognition of a valuation allowance against some or all of such deferred income tax assets. However, as of June 30, 2015, and given our operating results during the second quarter of 2015 and our expectations at that time for our operating results for the remainder of 2015, which had been driven in large part by the trend in our average TiO₂ selling prices over such periods as well as the \$21.1 million pre-tax charge recognized in the second quarter of 2015 in connection with the implementation of certain workforce reductions, we did not have sufficient positive evidence to overcome the significant negative evidence of having cumulative losses in the most recent twelve consecutive quarters in both our German and Belgian jurisdictions at June 30, 2015 (even considering that the carryforward period of our German and Belgian NOL carryforwards is indefinite, one piece of positive evidence). Accordingly, at June 30, 2015, we concluded that we were required to recognize a non-cash deferred income tax asset valuation allowance under the more-likely-than-not recognition criteria with respect to our German and Belgian net deferred income tax assets at such date. We recognized an additional non-cash deferred income tax asset valuation allowance during the second half of 2015 due to losses recognized by our German and Belgian operations during such period. Such valuation allowance aggregated \$168.9 million at December 31, 2015. We recognized an additional non-cash deferred income tax asset valuation allowance during the first nine months of 2016 of \$2.1 million, most of which was recognized in the second quarter. We continue to believe we will ultimately realize the full benefit of these German and Belgian NOL carryforwards, in part because of their indefinite carryforward period. However, our ability to reverse all or a portion of such valuation allowance in the future is dependent on the presence of sufficient positive evidence, such as the existence of cumulative profits in the most recent twelve consecutive quarters, and the ability to demonstrate future profitability for a sustainable period. Until such time as we are able to reverse the valuation allowance in full, to the extent we generate additional losses in Germany or Belgium in the intervening periods, our effective income tax rate would be impacted by the existence of such valuation allowance, because such losses would effectively be recognized without any associated net income tax benefit, as such losses would result in a further increase in the deferred income tax asset valuation allowance. Alternatively, until such time as we are able to reverse the valuation allowance in full, to the extent we generate income in Germany or Belgium in the intervening periods, our effective income tax rate would also be impacted by the existence of such valuation allowance, because such income may be recognized without any associated net income tax expense, subject to certain NOL usage limitations, as we would reverse a portion of the valuation allowance to offset the income tax expense attributable to such income. In addition, any change in tax law related to the indefinite carryforward period of these NOLs could adversely impact our ability to reverse the valuation allowance in full. Consistent with our expectation regarding our consolidated results of operations in the remainder of 2016 (as discussed in our Chemicals Segment’s “Outlook” subsection), we currently believe it is likely our Chemicals Segment’s German and Belgian operations will report improved operating results in 2016 as compared to 2015. However we currently do not expect that our Chemicals Segment’s German and Belgian operating results would improve to such an extent in 2016 that reversal of the valuation allowance in full would be supported by the presence of sufficient positive evidence.

We recognize deferred income taxes with respect to the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock because the exemption under GAAP to avoid such recognition of deferred income taxes is not available to us. There is a maximum amount (or cap) of such deferred income taxes we are required to recognize with respect to our direct investment in Kronos, and we previously reached such maximum amount in the fourth quarter of 2010. Since that time and through June 30, 2015, we were not required to recognize any additional deferred income taxes with respect to our direct investment in Kronos because the deferred income taxes associated with the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock continued to be above such cap. However, at June 30, 2015, the deferred income taxes associated with the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock was, for the first time since the fourth quarter of 2010, below such cap, in large part due to the net loss reported by Kronos in the second quarter of 2015. During the second, third and fourth quarters of 2015, we recognized an aggregate \$29.7 million non-cash income tax benefit (primarily in the second quarter of 2015) for the reduction in the deferred income taxes required to be recognized with respect to the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock, to the extent such reduction related to our equity in Kronos’ net loss in 2015. A portion of such reduction in 2015 also related to our equity in Kronos’ other comprehensive income (loss) items. For 2016, we currently estimate that the amount of deferred income taxes required to be recognized with respect to our direct investment in Kronos will increase as compared to such amount as of December 31, 2015. Accordingly, our provision for income taxes in the first nine months

of 2016 includes additional non-cash income tax expense of \$9.1 million for the deferred income taxes required to be recognized with respect to the excess of the financial reporting carrying amount over the income tax basis of our direct investment in Kronos common stock, to the extent such reduction related to our equity in Kronos' net income (loss).

See Note 13 to our Condensed Consolidated Financial Statements for more information about our 2016 income tax items and a tabular reconciliation of our statutory tax expense to our actual tax expense.

Noncontrolling Interest in Net Income (Loss) of Subsidiaries – Noncontrolling interest in net income was \$6.0 million and \$4.3 million in the third quarter of 2016 and the first nine months of 2016, respectively, compared to noncontrolling interest in net loss was \$1.6 million and \$31.7 million in the third quarter and first nine months of 2015. The change is primarily due to earnings at Kronos, in large part due to the deferred income tax asset valuation allowance recognized in the second quarter of 2015 as noted above.

LIQUIDITY AND CAPITAL RESOURCES

Consolidated Cash Flows

Operating Activities—

Trends in cash flows from operating activities (excluding the impact of significant asset dispositions and relative changes in assets and liabilities) are generally similar to trends in our operating income.

Cash provided by operating activities was \$39.7 million in the first nine months of 2016 compared to \$33.1 million in the first nine months of 2015. This \$6.6 million increase in the amount of cash provided was primarily due to the net effects of the following:

- operating income in the first nine months of 2016 of \$29.2 million, a \$9.7 million improvement compared to an operating income of \$19.5 million in the first nine months of 2015;
- lower cash paid for taxes in 2016 of \$4.8 million, primarily due to the timing of cash payments;
- a decrease in net distributions from our TiO₂ manufacturing joint venture in 2016 of \$4.5 million in 2016, primarily due to the timing of the joint venture's working capital needs; and
- a \$2.5 million decline in the amount of net cash provided by relative changes in receivables, inventories, payables and accrued liabilities in 2016.

Changes in working capital were affected by accounts receivable and inventory changes as shown below:

- Kronos' average days sales outstanding ("DSO") was slightly lower from December 31, 2015 to September 30, 2016, primarily as a result of relative changes in the timing of collections.
- Kronos' average days sales in inventory ("DSI") decreased from December 31, 2015 to September 30, 2016 principally due to lower inventory volumes and lower inventory raw material costs.
- CompX's average DSO increased from December 31, 2015 to September 30, 2016. Generally, we expect CompX's average days sales outstanding to increase from December to September as the result of a seasonal increase in sales during the third quarter as compared to the fourth quarter. Overall, CompX's September 30, 2016 days sales outstanding compared to December 31, 2015 is in line with our expectations.
- CompX's average DSI decreased from December 31, 2015 to September 30, 2016 primarily as a result of the seasonal increase in sales during the third quarter of 2016 as compared to the fourth quarter 2015 and the temporary reduction in stocking levels of marine components. The variability in days in inventory among our reporting units primarily relates to the differences in the complexity of the production processes and therefore the length of time it takes to produce end-products.

For comparative purposes, we have also provided comparable prior period numbers below.

	December 31, 2014	September 30, 2015	December 31, 2015	September 30, 2016
Kronos:				
Days sales outstanding	61 days	64 days	66 days	64 days
Days sales in inventory	76 days	66 days	80 days	55 days
CompX:				
Days sales outstanding	32 days	40 days	31 days	42 days
Days sales in inventory	90 days	76 days	76 days	70 days

We do not have complete access to the cash flows of our majority-owned subsidiaries, due in part to limitations contained in certain credit agreements of our subsidiaries and because we do not own 100% of these subsidiaries. A detail of our consolidated cash flows from operating activities is presented in the table below. Intercompany dividends have been eliminated.

	Nine months ended September 30,	
	2015	2016
(In millions)		
Cash provided by (used in) operating activities:		
Valhi exclusive of subsidiaries	\$ 13.7	\$ 9.6
Kronos	50.0	68.5
NL exclusive of its subsidiaries	12.4	10.7
CompX	6.7	7.9
BMI	(1.8)	1.9
LandWell	4.0	(1.0)
WCS	(6.5)	(12.7)
Tremont	(.5)	(1.6)
Eliminations	(44.9)	(43.6)
Total	<u>\$ 33.1</u>	<u>\$ 39.7</u>

Investing Activities –

We spent \$38.7 million in capital expenditures during the first nine months of 2016 including:

- \$34.3 million in our Chemicals Segment;
- \$2.3 million in our Component Products Segment;
- \$.5 million in our Waste Management Segment; and
- \$1.5 million in our Real Estate Management and Development Segment.

Our Waste Management Segment also had \$1.0 million in expenditures for capitalized permit costs in the first nine months of 2016. During the first nine months of 2016 we had net disposals of \$.3 million of marketable securities.

Financing Activities—

During the nine months ended September 30, 2016, we:

- borrowed a net \$24.5 million on Valhi's credit facility with Contran;
- borrowed a net \$18.5 million under Kronos' North American credit facility (\$209.8 million of gross borrowings and \$191.3 million of gross repayments); and
- paid quarterly dividends to Valhi stockholders aggregating \$.06 per share (\$20.4 million).

The declaration and payment of future dividends, and the amount thereof, is discretionary and is dependent upon these and other factors deemed relevant by our Board of Directors. The amount and timing of past dividends is not necessarily indicative of the amount or timing of any future dividends which might be paid. There are currently no contractual restrictions on the amount of dividends which we may pay. Distributions to noncontrolling interest in subsidiaries in the first nine months of 2016 are comprised of CompX dividends paid to shareholders other than NL and Kronos dividends paid to shareholders other than us and NL.

Outstanding Debt Obligations

At September 30, 2016, our consolidated indebtedness was comprised of:

- Valhi's \$250 million loan from Snake River Sugar Company due in 2027;
- Valhi's \$288.3 million outstanding on its \$325 million credit facility with Contran which is due no earlier than December 31, 2017;
- \$341.3 million aggregate borrowing under Kronos' term loan (\$336.4 million carrying amount, net of unamortized original issue discount and debt issuance costs) due through February 2020;

- WCS' financing capital lease with Andrews County, Texas (\$6 4.4 million carrying amount) which has an effective interest rate of 7.0% and is due in monthly installments through August 2035;
- \$18.5 million outstanding under Kronos' North American revolving credit facility due in June 2017;
- Tremont's promissory note payable (\$17.1 million outstanding) due in December 2023;
- \$8.7 million on BMI's bank note payable (\$8.6 million carrying amount, net of debt issuance costs), due through January 2025;
- \$3.1 million on LandWell's note payable to the City of Henderson due in October 2020; and
- approximately \$11.6 million of other indebtedness, primarily capital lease obligations.

Certain of our credit facilities require the respective borrowers to maintain a number of covenants and restrictions which, among other things, restrict our ability to incur additional debt, incur liens, pay dividends or merge or consolidate with, or sell or transfer substantially all of our assets to, another entity, and contain other provisions and restrictive covenants customary in lending transactions of this type. Certain of our credit agreements contain provisions which could result in the acceleration of indebtedness prior to their stated maturity for reasons other than defaults for failure to comply with typical financial or payment covenants. For example, certain credit agreements allow the lender to accelerate the maturity of the indebtedness upon a change of control (as defined in the agreement) of the borrower. In addition, certain credit agreements could result in the acceleration of all or a portion of the indebtedness following a sale of assets outside the ordinary course of business. Kronos' North American and European revolvers contain a number of covenants and restrictions which, among other things, restrict its ability to incur additional debt, incur liens, pay dividends or merge or consolidate with, or sell or transfer substantially all of its assets to, another entity, and contains other provisions and restrictive covenants customary in lending transactions of this type. Kronos' European revolving credit facility also requires the maintenance of certain financial ratios, and one of such requirements is based on the ratio of net debt to the last twelve months EBITDA of the borrowers. The terms of all of our debt instruments (including revolving lines of credit for which we have no outstanding borrowings at September 30, 2016) are discussed in Note 9 to our Consolidated Financial Statements included in our 2015 Annual Report. We are in compliance with all of our debt covenants at September 30, 2016. We believe that we will be able to continue to comply with the financial covenants contained in our credit facilities through their maturity.

Future Cash Requirements

Liquidity –

Our primary source of liquidity on an ongoing basis is our cash flows from operating activities and borrowings under various lines of credit and notes. We generally use these amounts to (i) fund capital expenditures, (ii) repay short-term indebtedness incurred primarily for working capital purposes and (iii) provide for the payment of dividends (including dividends paid to us by our subsidiaries) or treasury stock purchases. From time-to-time we will incur indebtedness, generally to (i) fund short-term working capital needs, (ii) refinance existing indebtedness, (iii) make investments in marketable and other securities (including the acquisition of securities issued by our subsidiaries and affiliates) or (iv) fund major capital expenditures or the acquisition of other assets outside the ordinary course of business. Occasionally we sell assets outside the ordinary course of business, and we generally use the proceeds to (i) repay existing indebtedness (including indebtedness which may have been collateralized by the assets sold), (ii) make investments in marketable and other securities, (iii) fund major capital expenditures or the acquisition of other assets outside the ordinary course of business or (iv) pay dividends.

We routinely compare our liquidity requirements and alternative uses of capital against the estimated future cash flows we expect to receive from our subsidiaries, and the estimated sales value of those units. As a result of this process, we have in the past sought, and may in the future seek, to raise additional capital, refinance or restructure indebtedness, repurchase indebtedness in the market or otherwise, modify our dividend policies, consider the sale of our interests in our subsidiaries, affiliates, business units, marketable securities or other assets, or take a combination of these and other steps, to increase liquidity, reduce indebtedness and fund future activities. Such activities have in the past and may in the future involve related companies. From time to time, we and our subsidiaries may enter into intercompany loans as a cash management tool. Such notes are structured as revolving demand notes and pay and receive interest on terms we believe are generally more favorable than current debt and investment market rates. The companies that borrow under these notes have sufficient borrowing capacity to repay the notes at any time upon demand. All of these notes and related interest expense and income are eliminated in our Condensed Consolidated Financial Statements.

We periodically evaluate acquisitions of interests in or combinations with companies (including our affiliates) that may or may not be engaged in businesses related to our current businesses. We intend to consider such acquisition activities in the future and, in connection with this activity, may consider issuing additional equity securities and increasing indebtedness. From time to time, we also evaluate the restructuring of ownership interests among our respective subsidiaries and related companies.

Based upon our expectations of our operating performance, and the anticipated demands on our cash resources, we expect to have sufficient liquidity to meet our short term obligations (defined as the twelve-month period ending September 30, 2017) and our long-term obligations (defined as the five-year period ending September 30, 2021, our time period for long-term budgeting). In this regard, see the discussion above in “*Outstanding Debt Obligations.*” If actual developments differ from our expectations, our liquidity could be adversely affected.

At September 30, 2016, we had credit available under existing facilities of approximately \$123.7 million, which was comprised of:

- \$57.4 million under Kronos’ North American revolving credit facility;
- \$29.6⁽¹⁾ million under Kronos’ European credit facility; and
- \$36.7⁽²⁾ million under Valhi’s Contran credit facility, subject to Contran’s discretion.

(1) Based on Kronos’ EBITDA over the last twelve months ending September 30, 2016, Kronos has €26.4 million (\$29.6 million) available under its European credit facility at September 30, 2016

(2) Amounts available under this facility are at the sole discretion of Contran.

We could borrow all of the amounts noted above without violating any covenants of the credit facilities. Kronos’ North American revolving credit facility matures in June 2017, and its European credit facility matures in September 2017. We believe we will be able to obtain an extension of these facilities in the normal course of business on or prior to their respective maturity dates.

At September 30, 2016, we had an aggregate of \$242.0 million of restricted and unrestricted cash, cash equivalents and marketable securities, including \$90.4 million held by our non-U.S. subsidiaries. A detail by entity is presented in the table below.

	Total	Amount held outside U.S.
	(In millions)	
Kronos	\$ 93.3	\$ 90.2
CompX	45.4	—
NL exclusive of its subsidiaries	60.2	.2
WCS	20.4	—
LandWell	8.1	—
BMI	5.3	—
Tremont exclusive of its subsidiaries	9.0	—
Valhi exclusive of its subsidiaries	.3	—
Total restricted and unrestricted cash, cash equivalents and marketable securities	<u>\$ 242.0</u>	<u>\$ 90.4</u>

Capital Expenditures and Other –

We currently expect our aggregate capital expenditures for 2016 will be approximately \$78 million as follows:

- \$63 million by our Chemicals Segment, including approximately \$9 million in the area of environmental compliance, protection and improvement;
- \$1 million by our Waste Management Segment;
- \$4 million by our Component Products Segment; and
- \$10 million by our Real Estate Management and Development Segment.

The Waste Management Segment amount includes approximately \$1 million in capitalized operating permit costs. In addition LandWell expects to spend approximately \$12 million on land development costs during 2016 (which are included in the determination of cash provided by operating activities).

Capital spending for 2016 is expected to be funded primarily through cash generated from operations and borrowing under existing credit facilities. Planned capital expenditures in 2016 at Kronos and CompX will primarily be to maintain and improve the cost-effectiveness of our facilities. A portion of Kronos’ planned capital expenditures in 2016 relates to the implementation of a new accounting and manufacturing system. In addition, Kronos’ capital expenditures in the area of environmental compliance, protection

and improvement include expenditures which are primarily focused on increased operating efficiency but also result in improved environmental protection, such as lower emissions from our manufacturing plants.

Repurchases of Common Stock –

We, Kronos and CompX have programs to repurchase common stock from time to time as market conditions permit. These stock repurchase programs do not include specific price targets or timetables and may be suspended at any time. Depending on market conditions, these programs may be terminated prior to completion. Cash on hand will be used to acquire the shares and repurchased shares will be added to treasury shares and cancelled.

At September 30, 2016 Valhi had approximately 4.0 million shares of our common stock available to repurchase under the authorizations made by our board of directors.

Kronos' board of directors authorized the repurchase of up to 2.0 million shares of its common stock in open market transactions, including block purchases, or in privately-negotiated transactions at unspecified prices and over an unspecified period of time. At September 30, 2016 approximately 1.95 million shares are available for repurchase.

CompX's board of directors authorized the repurchase of its Class A common stock in open market transactions, including block purchases, or in privately-negotiated transactions at unspecified prices and over an unspecified period of time. At September 30, 2016 approximately 678,000 shares were available for purchase under these authorizations.

Dividends –

Because our operations are conducted primarily through subsidiaries and affiliates, our long-term ability to meet parent company level corporate obligations is largely dependent on the receipt of dividends or other distributions from our subsidiaries and affiliates. If Kronos pays its regular dividend of \$.15 per share in each quarter of 2016, based on the 58.0 million shares we held of Kronos common stock at September 30, 2016, we would receive aggregate annual regular dividends from Kronos of \$34.8 million. We did not receive any dividends from NL during 2015 and we do not know if we will receive any cash dividends from NL during 2016. We did not receive any distributions from WCS during 2015, and we do not expect to receive any distributions from WCS during 2016. We expect that BMI and LandWell will pay cash dividends, but the timing and amount of such dividends are uncertain. In this regard, we received aggregate dividends from BMI and LandWell of \$.5 million in February 2015, \$.9 million in December 2015, and \$6.3 million in November 2016. All of our ownership interest in CompX is held through our ownership in NL, as such we do not receive any dividends from CompX. Instead any dividend paid by CompX is paid to NL.

Certain of our subsidiaries have various credit agreements with unrelated third-party lenders which contain customary limitations on the payment of dividends, typically a percentage of net income or cash flow; however, these restrictions in the past have not significantly impacted their ability to pay dividends.

Investment in our Subsidiaries and Affiliates and Other Acquisitions –

We have in the past, and may in the future, purchase the securities of our subsidiaries and affiliates or third parties in market or privately-negotiated transactions. We base our purchase decision on a variety of factors, including an analysis of the optimal use of our capital, taking into account the market value of the securities and the relative value of expected returns on alternative investments. In connection with these activities, we may consider issuing additional equity securities or increasing our indebtedness. We may also evaluate the restructuring of ownership interests of our businesses among our subsidiaries and related companies.

We generally do not guarantee any indebtedness or other obligations of our subsidiaries or affiliates. Our subsidiaries are not required to pay us dividends. If one or more of our subsidiaries were unable to maintain its current level of dividends, either due to restrictions contained in a credit agreement or to satisfy its liabilities or otherwise, our ability to service our liabilities or to pay dividends on our common stock could be adversely impacted. If this were to occur, we might consider reducing or eliminating our dividends or selling interests in subsidiaries or other assets. If we were required to liquidate assets to generate funds to satisfy our liabilities, we might be required to sell at what we believe would be less than what we believe is the long-term value of such assets.

WCS' primary source of liquidity currently consists of intercompany borrowings from one of our wholly-owned subsidiaries under the terms of a revolving credit facility. We eliminate these intercompany borrowings in our Condensed Consolidated Financial Statements. WCS has borrowed substantial amounts from us over the years. During the first nine months of 2016, WCS borrowed an aggregate \$21.9 million from our subsidiary for a total outstanding balance of \$40.9 million at September 30, 2016. WCS could borrow an additional \$19.1 million under its current intercompany facility with such subsidiary at September 30, 2016. It is probable WCS will borrow additional amounts from our subsidiary during the remainder of 2016 under the terms of the revolving credit facility.

We have an unsecured revolving demand promissory note with NL whereby, as amended, we agreed to loan NL up to \$40 million. We also eliminate any such intercompany borrowings in our Condensed Consolidated Financial Statements. We had no loans to NL during 2016 under this facility, which as amended is due on demand, but in any event no earlier than March 31, 2017 and no later than December 31, 2017. Our obligation to loan NL money under this note is at our discretion.

We have an unsecured revolving demand promissory note with Kronos which as amended in August 2016, provides for borrowings from Kronos of up to \$60 million. We also eliminate any such intercompany borrowings in our Condensed Consolidated Financial Statements. We had no borrowings from Kronos during 2016 under this facility, which as amended is due on demand, but in any event no earlier than December 31, 2017. Kronos' obligation to loan us money under this note is at Kronos' discretion.

On August 3, 2016 we entered into an unsecured revolving demand promissory note with CompX which provides for borrowings from CompX of up to \$40 million. We eliminate these intercompany borrowings in our Condensed Consolidated Financial Statements. The facility is due on demand, but in any event no earlier than December 31, 2017. We had gross borrowings of \$15.1 million and gross repayments of \$4.4 million from CompX for a total outstanding balance of \$10.7 million at September 30, 2016. We could borrow an additional \$29.3 million under our current intercompany facility with CompX at September 30, 2016. CompX's obligation to loan us money under this note is at CompX's discretion.

Investment in The Amalgamated Sugar Company LLC –

The terms of The Amalgamated Sugar Company LLC Company Agreement provide for an annual "base level" of cash dividend distributions (sometimes referred to as distributable cash) by the LLC of \$26.7 million, from which we are entitled to a 95% preferential share. Distributions from the LLC are dependent, in part, upon the operations of the LLC. We record dividend distributions from the LLC as income when they are declared by the LLC, which is generally the same month in which we receive the distributions, although distributions may in certain cases be paid on the first business day of the following month. To the extent the LLC's distributable cash is below this base level in any given year, we are entitled to an additional 95% preferential share of any future annual LLC distributable cash in excess of the base level until such shortfall is recovered. Based on the LLC's current projections for 2016, we expect distributions received from the LLC in 2016 will exceed our debt service requirements under our \$250 million loans from Snake River Sugar Company by approximately \$1.8 million.

We may, at our option, require the LLC to redeem our interest in the LLC and the LLC has the right to redeem our interest in the LLC beginning in 2027. The redemption price is generally \$250 million plus the amount of certain undistributed income allocable to us, if any. In the event we require the LLC to redeem our interest in the LLC, Snake River has the right to accelerate the maturity of and call our \$250 million aggregate loans from Snake River. Redemption of our interest in the LLC would result in us reporting income related to the disposition of our LLC interest for income tax purposes, although we would not be expected to report a gain in earnings for financial reporting purposes at the time our LLC interest is redeemed. However, because of Snake River's ability to call our \$250 million loans from Snake River upon redemption of our interest in the LLC, the net cash proceeds (after repayment of the debt) generated by the redemption of our interest in the LLC could be less than the income taxes that we would be required to pay as a result of the disposition.

Off-balance Sheet Financing

We do not have any off-balance sheet financing agreements other than the operating leases discussed in our 2015 Annual Report.

Commitments and Contingencies

There have been no material changes in our contractual obligations since we filed our 2015 Annual Report and we refer you to that report for a complete description of these commitments.

We are subject to certain commitments and contingencies, as more fully described in Notes 12 and 17 to our 2015 Annual Report, or in Notes 13 and 16 to our Condensed Consolidated Financial Statements and in Part II, Item 1 of this Quarterly Report, including:

- certain income tax examinations which are underway in various U.S. and non-U.S. jurisdictions;
- certain environmental remediation matters involving NL, Tremont, BMI, LandWell and Valhi;
- certain litigation related to NL's former involvement in the manufacture of lead pigment and lead-based paint; and
- certain other litigation to which we are a party.

In addition to such legal proceedings various legislation and administrative regulations have, from time to time, been proposed that seek to (i) impose various obligations on present and former manufacturers of lead pigment and lead-based paint (including NL) with respect to asserted health concerns associated with the use of such products and (ii) effectively overturn court decisions in which NL and other pigment manufacturers have been successful. Examples of such proposed legislation include bills which would permit civil liability for damages on the basis of market share, rather than requiring plaintiffs to prove that the defendant's product caused the alleged damage, and bills which would revive actions barred by the statute of limitations. While no legislation or regulations have been enacted to date that are expected to have a material adverse effect on our consolidated financial position, results of operations or liquidity, enactment of such legislation could have such an effect.

Recent Accounting Pronouncements

See Note 18 to our Condensed Consolidated Financial Statements.

Critical Accounting Policies

There have been no changes in the first nine months of 2016 with respect to our critical accounting policies presented in Management's Discussion and Analysis of Financial Condition and Results of Operation in our 2015 Annual Report.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risk, including currency exchange rates, interest rates and security prices, and raw material prices. There have been no material changes in these market risks since we filed our 2015 Annual Report, and refer you to Part I, Item 7A.—“Quantitative and Qualitative Disclosure About Market Risk” in our 2015 Annual Report. See also Note 17 to our Condensed Consolidated Financial Statements.

We have substantial operations located outside the United States for which the functional currency is not the U.S. dollar. As a result, our assets and liabilities, results of operations and cash flows will fluctuate based upon changes in currency exchange rates.

We periodically use currency forward contracts to manage a nominal portion of currency exchange rate market risk associated with trade receivables, or similar exchange rate risk associated with future sales, denominated in a currency other than the holder's functional currency. These contracts generally relate to our Chemicals Segment's operations. We have not entered into these contracts for trading or speculative purposes in the past, nor do we currently anticipate entering into such contracts for trading or speculative purposes in the future. Some of the currency forward contracts we enter into meet the criteria for hedge accounting under GAAP and are designated as cash flow hedges. For these currency forward contracts, gains and losses representing the effective portion of our hedges are deferred as a component of accumulated other comprehensive income, and are subsequently recognized in earnings at the time the hedged item affects earnings. For the currency forward contracts we enter into which do not meet the criteria for hedge accounting, we mark-to-market the estimated fair value of such contracts at each balance sheet date, with any resulting gain or loss recognized in income currently as part of net currency transactions.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures—

We maintain disclosure controls and procedures which, as defined in Exchange Act Rule 13a-15(e), means controls and other procedures that are designed to ensure that information required to be disclosed in the reports we file or submit to the SEC under the Securities Exchange Act of 1934, as amended (the “Act”), is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information we are required to disclose in the reports we file or submit to the SEC under the Act is accumulated and communicated to our management, including our principal executive officer and our principal financial officer, or persons performing similar functions, as appropriate to allow timely decisions to be made regarding required disclosure. Each of Bobby D. O'Brien, our Chairman of the Board and Chief Executive Officer, and Gregory M. Swalwell, our Executive Vice President, Chief Financial Officer and Chief Accounting Officer, have evaluated the design and effectiveness of our disclosure controls and procedures as of September 30, 2016. Based upon their evaluation, these executive officers have concluded that our disclosure controls and procedures were effective as of the date of such evaluation.

Management's report on internal control over financial reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting which, as defined by Exchange Act Rule 13a-15(f) means a process designed by, or under the supervision of, our principal executive and principal financial officers, or persons performing similar functions, and effected by the board of directors, management and other

personnel, 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, and includes those policies and procedures that:

- Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of our assets,
- Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with GAAP, and that receipts and expenditures are being made only in accordance with authorizations of management and directors and
- Provide reasonable assurance regarding prevention or timely detection of an unauthorized acquisition, use or disposition of assets that could have a material effect on our Consolidated Financial Statements.

As permitted by the SEC, our assessment of internal control over financial reporting excludes (i) internal control over financial reporting of equity method investees and (ii) internal control over the preparation of any financial statement schedules which would be required by Article 12 of Regulation S-X. However, our assessment of internal control over financial reporting with respect to equity method investees did include controls over the recording of amounts related to our investment that are recorded in the consolidated financial statements, including controls over the selection of accounting methods for our investments, the recognition of equity method earnings and losses and the determination, valuation and recording of our investment account balances.

Changes in internal control over financial reporting

There has been no change to our internal control over financial reporting during the quarter ended September 30, 2016 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Part II. OTHER INFORMATION

Item 1. Legal Proceedings.

Please refer to Note 16 to our Condensed Consolidated Financial Statements, and Note 17 to our Consolidated Financial Statements included in our 2015 Annual Report and our Quarterly Report on Form 10-Q for the quarters ended March 31, 2016 and June 30, 2016 for descriptions of certain legal proceedings.

Item 1A. Risk Factors.

For a discussion of the risk factors related to our businesses, please refer to Part I, Item 1A, "Risk Factors," in our 2015 Annual report. There have been no material changes to such risk factors during the first nine months of 2016.

Item 6. Exhibits.

Item No. Exhibit Index

- 31.1 Certification
- 31.2 Certification
- 32.1 Certification
- 101.INS XBRL Instance Document
- 101.SCH XBRL Taxonomy Extension Schema
- 101.CAL XBRL Taxonomy Extension Calculation Linkbase
- 101.DEF XBRL Taxonomy Extension Definition Linkbase
- 101.LAB XBRL Taxonomy Extension Label Linkbase
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase

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.

Date	<u>November 8, 2016</u>	<u>VALHI, INC.</u> <u>(Registrant)</u>
		<u>/s/ Gregory M. Swalwell</u> Gregory M. Swalwell (Executive Vice President, Chief Financial Officer and Chief Accounting Officer)
Date	<u>November 8, 2016</u>	<u>/s/ Amy Allbach Samford</u> Amy Allbach Samford (Vice President and Controller)

I, Bobby D. O'Brien, certify that:

- 1) I have reviewed this Quarterly Report on Form 10-Q of Valhi, Inc.;
- 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 (the registrant's fourth fiscal quarter in the case of an Annual Report) 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 function):
 - 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.

Date: November 8, 2016

/s/ Bobby D. O'Brien

Bobby D. O'Brien
Chairman and Chief Executive Officer

I, Gregory M. Swalwell, certify that:

- 1) I have reviewed this Quarterly Report on Form 10-Q of Valhi, Inc.;
- 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 (the registrant's fourth fiscal quarter in the case of an annual report) 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 function):
 - 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.

Date: November 8, 2016

/s/ Gregory M. Swalwell

Gregory M. Swalwell
Executive Vice President, Chief Financial Officer and Chief
Accounting Officer

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Valhi, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2016 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I Bobby D. O'Brien, Chairman of the Board and Chief Executive Officer of the Company, and I Gregory M. Swalwell, Executive Vice President, Chief Financial Officer and Chief Accounting Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

/s/ Bobby D. O'Brien

Bobby D. O'Brien

Chairman of the Board and Chief Executive Officer
November 8, 2016

/s/ Gregory M. Swalwell

Gregory M. Swalwell
Executive Vice President, Chief Financial Officer and Chief
Accounting Officer
November 8, 2016

Note: The certification the registrant furnishes in this exhibit is not deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section. Registration Statements or other documents filed with the Securities and Exchange Commission shall not incorporate this exhibit by reference, except as otherwise expressly stated in such filing.

