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Tronox Ltd
Form 10-Q
November 03, 2016

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

Form 10-Q

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended September 30, 2016

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to

1-35573

(Commission file number)

TRONOX LIMITED
(ACN 153 348 111)
(Exact Name of Registrant as Specified in its Charter)

Western Australia, Australia 98-1026700
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

263 Tresser Boulevard, Suite 1100
Stamford, Connecticut 06901

Lot 22, Mason Road,
Kwinana Beach, WA, 6167
Australia

Registrant's telephone number, including area code: (203) 705-3800

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

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

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of “large accelerated filer,” “accelerated filer,” and “smaller reporting company” in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer

Non-accelerated filer Smaller reporting company

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

Indicate by check mark whether the Registrant has filed all documents and reports required to be filed by Section 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes No

As of October 28, 2016, the Registrant had 65,149,970 Class A ordinary shares and 51,154,280 Class B ordinary shares outstanding.

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Item 1. Financial Statements (Unaudited)

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TRONOX LIMITED

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(Unaudited)

(Millions of U.S. dollars, except share and per share data)

	Three Months		Nine Months	
	Ended September 30,		Ended September 30,	
	2016	2015	2016	2015
Net sales	\$533	\$575	\$1,545	\$1,577
Cost of goods sold	453	536	1,388	1,479
Gross profit	80	39	157	98
Selling, general and administrative expenses	(54)	(55)	(151)	(171)
Restructuring expense	(1)	(5)	(2)	(7)
Income (loss) from operations	25	(21)	4	(80)
Interest and debt expense, net	(46)	(45)	(138)	(131)
Gain on extinguishment of debt	—	—	4	—
Other income (expense), net	(14)	23	(23)	22
Loss before income taxes	(35)	(43)	(153)	(189)
Income tax provision	(7)	(11)	(29)	(29)
Net loss	(42)	(54)	(182)	(218)
Net income (loss) attributable to noncontrolling interest	(2)	6	(1)	10
Net loss attributable to Tronox Limited	\$(40)	\$(60)	\$(181)	\$(228)
Loss per share, basic and diluted	\$(0.35)	\$(0.52)	\$(1.56)	\$(1.97)
Weighted average shares outstanding, basic and diluted (in thousands)	116,219	115,642	116,108	115,529

See accompanying notes to unaudited condensed consolidated financial statements.

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TRONOX LIMITED

CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS

(Unaudited)

(Millions of U.S. dollars)

	Three Months Ended September 30, 2016		Nine Months Ended September 30, 2016	
	2015		2015	
Net loss	\$ (42)	\$ (54)	\$ (182)	\$ (218)
Other comprehensive income (loss):				
Foreign currency translation adjustments	69	(135)	122	(187)
Pension and postretirement plans:				
Actuarial losses, (no tax impact; See Note 3)	(21)	—	(21)	—
Amortization of unrealized losses, net of taxes of less than \$1 million in each of the three and nine months ended September 30, 2016 and 2015	(1)	1	—	3
Unrealized gains (losses) on derivative financial instruments, (no tax impact; See Note 3)	(1)	—	1	—
Other comprehensive income (loss)	46	(134)	102	(184)
Total comprehensive income (loss)	4	(188)	(80)	(402)
Comprehensive income (loss) attributable to noncontrolling interest:				
Net income (loss)	(2)	6	(1)	10
Foreign currency translation adjustments	18	(35)	31	(49)
Comprehensive income (loss) attributable to noncontrolling interest	16	(29)	30	(39)
Comprehensive loss attributable to Tronox Limited	\$ (12)	\$ (159)	\$ (110)	\$ (363)

See accompanying notes to unaudited condensed consolidated financial statements.

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TRONOX LIMITED

CONDENSED CONSOLIDATED BALANCE SHEETS

(Unaudited)

(Millions of U.S. dollars, except share and per share data)

	September 30, 2016	December 31, 2015
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 202	\$ 229
Restricted cash	3	5
Accounts receivable, net of allowance for doubtful accounts	394	391
Inventories, net	558	630
Prepaid and other assets	45	46
Total current assets	1,202	1,301
Noncurrent Assets		
Property, plant and equipment, net	1,850	1,843
Mineral leaseholds, net	1,617	1,604
Intangible assets, net	226	244
Inventories, net	6	12
Other long-term assets	24	23
Total assets	\$ 4,925	\$ 5,027
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 162	\$ 159
Accrued liabilities	148	180
Short-term debt	150	150
Long-term debt due within one year	16	16
Income taxes payable	57	43
Total current liabilities	533	548
Noncurrent Liabilities		
Long-term debt	2,889	2,910
Pension and postretirement healthcare benefits	151	141
Asset retirement obligations	78	77
Long-term deferred tax liabilities	156	143
Other long-term liabilities	111	98
Total liabilities	3,918	3,917
Contingencies and Commitments		
Shareholders' Equity		
Tronox Limited Class A ordinary shares, par value \$0.01 — 65,982,604 shares issued and 65,149,970 shares outstanding at September 30, 2016 and 65,443,363 shares issued and 64,521,851 shares outstanding at December 31, 2015	1	1
	—	—

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Tronox Limited Class B ordinary shares, par value \$0.01 — 51,154,280 shares issued and outstanding at September 30, 2016 and December 31, 2015

Capital in excess of par value	1,518		1,500
(Accumulated deficit) / Retained earnings	(129	)	93
Accumulated other comprehensive loss	(525	)	(596)
Total Tronox Limited shareholders' equity	865		998
Noncontrolling interest	142		112
Total equity	1,007		1,110
Total liabilities and equity	\$ 4,925		\$ 5,027

See accompanying notes to unaudited condensed consolidated financial statements.

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TRONOX LIMITED

CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited)

(Millions of U.S. dollars)

	Nine Months Ended September 30,	
	2016	2015
Cash Flows from Operating Activities:		
Net loss	\$ (182)	\$ (218)
Adjustments to reconcile net loss to net cash provided by operating activities:		
Depreciation, depletion and amortization	175	222
Deferred income taxes	(4)	(4)
Share-based compensation expense	19	17
Amortization of deferred debt issuance costs and discount on debt	8	8
Pension and postretirement healthcare benefit expense	4	4
Gain on extinguishment of debt	(4)	—
Other noncash items affecting net loss	10	(4)
Contributions to employee pension and postretirement plans	(20)	(16)
Changes in assets and liabilities:		
(Increase) decrease in accounts receivable	1	(36)
(Increase) decrease in inventories	98	90
(Increase) decrease in prepaid and other assets	(5)	4
Increase (decrease) in accounts payable and accrued liabilities	(28)	(35)
Increase (decrease) in taxes payable	28	12
Other, net	23	1
 Cash provided by operating activities	 123	 45
Cash Flows from Investing Activities:		
Capital expenditures	(87)	(141)
Proceeds from sale of assets	1	—
Acquisition of business	—	(1,653)
 Cash used in investing activities	 (86)	 (1,794)
Cash Flows from Financing Activities:		
Repayments of debt	(27)	(13)
Proceeds from debt	—	750
Debt issuance costs	—	(15)
Dividends paid	(40)	(88)
Proceeds from the exercise of warrants and options	—	3
 Cash provided by (used in) financing activities	 (67)	 637
 Effects of exchange rate changes on cash and cash equivalents	 3	 (19)
 Net decrease in cash and cash equivalents	 (27)	 (1,131)
Cash and cash equivalents at beginning of period	229	1,276

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Cash and cash equivalents at end of period	\$ 202	\$ 145
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See accompanying notes to unaudited condensed consolidated financial statements.

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TRONOX LIMITED

CONDENSED CONSOLIDATED STATEMENT OF EQUITY

(Unaudited)

(Millions of U.S. dollars)

	Tronox Limited Class A Ordinary Shares	Tronox Limited Class B Ordinary Shares	Capital in Excess of par Value	Accumulated Deficit/ Retained Earnings	Accumulated Other Comprehensive Loss	Total Tronox Limited Shareholders Equity	Non- controlling Interest	Total Equity
Balance at January 1, 2016	\$ 1	\$ —	\$1,500	\$ 93	\$ (596)	\$ 998	\$ 112	\$1,110
Net loss	—	—	—	(181)	—	(181)	(1)	(182)
Other comprehensive income	—	—	—	—	71	71	31	102
Share-based compensation	—	—	19	—	—	19	—	19
Class A and Class B share dividends	—	—	—	(41)	—	(41)	—	(41)
Shares cancelled	—	—	(1)	—	—	(1)	—	(1)
Balance at September 30, 2016	\$ 1	\$ —	\$1,518	\$ (129)	\$ (525)	\$ 865	\$ 142	\$1,007

See accompanying notes to unaudited condensed consolidated financial statements.

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TRONOX LIMITED

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(Unaudited)

(Millions of U.S. dollars, except share, per share and metric tons data or unless otherwise noted)

1. The Company

Tronox Limited and its subsidiaries (collectively referred to as “Tronox,” “we,” “us,” or “our”) is a public limited company registered under the laws of the State of Western Australia. We are a global leader in the production and marketing of titanium bearing mineral sands and titanium dioxide (“TiO₂”) pigment, and the world’s largest producer of natural soda ash. Titanium feedstock is primarily used to manufacture TiO₂. Zircon, a hard, glossy mineral, is used for the manufacture of ceramics, refractories, TV screen glass, and a range of other industrial and chemical products. Pig iron is a metal material used in the steel and metal casting industries to create wrought iron, cast iron, and steel. Our TiO₂ products are critical components of everyday applications such as paint and other coatings, plastics, paper, and other uses and our related mineral sands product streams include titanium feedstock, zircon, and pig iron. Our soda ash products are used by customers in the glass, detergent, and chemicals manufacturing industries.

We have global operations in North America, Europe, South Africa, and the Asia-Pacific region. Within our TiO₂ segment, we operate three pigment production facilities at the following locations: Hamilton, Mississippi; Botlek, The Netherlands; and Kwinana, Western Australia, and we operate three separate mining operations: KwaZulu-Natal (“KZN”) Sands and Namakwa Sands both located in South Africa, and Cooljarloo located in Western Australia.

On April 1, 2015 (the “Alkali Transaction Date”), we completed the acquisition of 100% of the Alkali Chemicals business (“Alkali”) from FMC Corporation (“FMC”) for an aggregate purchase price of \$1.65 billion in cash (the “Alkali Transaction”). See Note 19 for additional information regarding the Alkali Transaction.

As a result of the Alkali Transaction, we produce natural soda ash from a mineral called trona, which we mine at two facilities we own near Green River, Wyoming. Our Wyoming facilities process the trona ore into chemically pure soda ash and specialty sodium products such as sodium bicarbonate (baking soda). We sell soda ash directly to customers in the United States (“U.S.”), Canada and Europe and to the American Natural Soda Ash Corporation (“ANSAC”), a non-profit foreign sales association in which we and two other U.S. soda ash producers are members, for resale to customers elsewhere around the world. We use a portion of our soda ash at Green River to produce specialty sodium products such as sodium bicarbonate and sodium sesquicarbonate that have uses in food, animal feed, pharmaceutical, and medical applications.

In June 2012, Tronox Limited issued Class B ordinary shares (“Class B Shares”) to Exxaro Resources Limited (“Exxaro”) and one of its subsidiaries in consideration for 74% of Exxaro’s South African mineral sands business, and the existing business of Tronox Incorporated was combined with the mineral sands business in an integrated series of transactions whereby Tronox Limited became the parent company (the “Exxaro Transaction”). Exxaro has agreed not to acquire any voting shares of Tronox Limited if, following such acquisition, Exxaro will have a voting interest in Tronox Limited of 50% or more unless Exxaro brings any proposal to make such an acquisition to the Board of Directors of Tronox Limited on a confidential basis. In the event an agreement regarding the proposal is not reached, Exxaro is permitted to make a takeover offer for all the shares of Tronox Limited not held by affiliates of Exxaro, subject to certain non-waivable conditions. At both September 30, 2016 and December 31, 2015, Exxaro held approximately 44% of the voting securities of Tronox Limited. See Note 20 for additional information regarding Exxaro transactions.

Basis of Presentation

The accompanying condensed consolidated financial statements are unaudited, and have been prepared pursuant to the rules and regulations of the U.S. Securities and Exchange Commission regarding interim financial reporting.

Accordingly, they do not include all the information and footnotes required by accounting principles generally accepted in the United States of America ("U.S. GAAP") for complete financial statements, and should be read in conjunction with the audited consolidated financial statements and notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2015. The Condensed Consolidated Balance Sheet as of December 31, 2015 was derived from our audited consolidated financial statements, but does not include all disclosures required by U.S. GAAP.

In management's opinion, the accompanying unaudited condensed consolidated financial statements reflect all adjustments, which are of a normal recurring nature, considered necessary for a fair statement. Our unaudited condensed consolidated financial statements include the accounts of all majority-owned subsidiary companies. All intercompany balances and transactions have been eliminated in consolidation. Certain prior period amounts have been reclassified to conform to the manner and presentation in the current period.

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting periods. It is at least reasonably possible that the effect on the financial statements of a change in estimate due to one or more future confirming events could have a material effect on the financial statements.

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Recently Adopted Accounting Pronouncements

In September 2015, the Financial Accounting Standards Board (the “FASB”) issued Accounting Standards Update (“ASU”) 2015-16, Simplifying the Accounting for Measurement-Period Adjustments (“ASU 2015-16”). ASU 2015-16 simplifies the accounting for measurement-period adjustments by eliminating the requirement to restate prior period financial statements for measurement period adjustments. The new guidance requires that the cumulative impact of a measurement period adjustment (including the impact on prior periods) be recognized in the reporting period in which the adjustment is identified. We adopted ASU 2015-16 during the first quarter of 2016. Its adoption did not have an impact on our unaudited condensed consolidated financial statements.

In August 2015, the FASB issued ASU 2015-15, Interest – Imputation of Interest (“ASU 2015-15”) and in April 2015, the FASB issued ASU 2015-03, Interest— Imputation of Interest (“ASU 2015-03”). ASU 2015-15 and ASU 2015-03 change and simplify the presentation of debt issuance costs. ASU 2015-03 requires that debt issuance costs related to a recognized debt liability be presented in the balance sheet as a direct deduction from the carrying amount of that debt liability, consistent with debt discounts. ASU 2015-15 stated that it would also be acceptable to present debt issuance costs related to a line of credit arrangement as a direct deduction from the carrying amount of debt. The recognition and measurement guidance for debt issuance costs are not affected by the amendments in these ASUs. We adopted these standards retroactively during the first quarter of 2016. The adoption of ASU 2015-03 resulted in decreases to long-term debt and other long term assets as of December 31, 2015 of \$45 million. The adoption of ASU 2015-15 did not have an impact on our unaudited condensed consolidated financial statements. As of September 30, 2016, debt issuance costs of \$38 million are presented as a decrease to long-term debt and \$4 million are presented as other long-term assets.

In February 2015, the FASB issued ASU 2015-02, Consolidation: Amendments to the Consolidation Analysis (“ASU 2015-02”). ASU 2015-02 changes the consolidation evaluation for entities that are required to evaluate whether they should consolidate certain legal entities. The standard permits the use of a modified retrospective approach by recording a cumulative-effect adjustment to equity as of the beginning of the fiscal year of adoption, or a reporting entity may also apply the amendments retrospectively. We adopted ASU 2015-02 during the first quarter of 2016. The adoption of ASU 2015-02 did not an impact on our unaudited condensed consolidated financial statements.

Recently Issued Accounting Pronouncements

In October 2016, the FASB issued ASU 2016-16, Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory (“ASU 2016-16”), which reduces the complexity in the accounting standards by allowing the recognition of current and deferred income taxes for an intra-entity asset transfer, other than inventory, when the transfer occurs. Historically, recognition of the income tax consequence was not recognized until the asset was sold to an outside party. This amendment should be applied on a modified retrospective basis through a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. ASU 2016-16 is effective for annual periods beginning after December 15, 2017, including interim reporting periods within those annual reporting periods. Early adoption is permitted for all entities as of the beginning of an annual reporting period for which financial statements (interim or annual) have not been issued or made available for issuance. We have not yet determined the impact, if any, that ASU 2016-16 will have on our consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments (“ASU 2016-15”) which provides guidance intended to reduce diversity in practice in how certain cash receipts and cash payments are presented and classified in the statement of cash flows. ASU 2016-15 is effective for financial statements issued for fiscal years beginning after December 15, 2017, and interim periods within those fiscal years with early adoption permitted, provided that all of the amendments are adopted in the same period. The guidance requires application using a retrospective transition method. We have not yet determined the impact, if any, that ASU 2016-15 will have on our consolidated financial statements.

In June 2016, the FASB issued ASU 2016-13, Financial Instruments – Credit Losses: Measurement of Credit Losses on Financial Instruments (“ASU 2016-13”), which requires that entities use a current expected credit loss model which is a new impairment model based on expected losses rather than incurred losses. Under this model, an entity would recognize an impairment allowance equal to its current estimate of all contractual cash flows that the entity does not expect to collect from financial assets measured at amortized cost. The entity's estimate would consider relevant information about past events, current conditions and reasonable and supportable forecasts that affect the collectability of the reported amount. ASU 2016-13 is effective for interim and annual reporting periods beginning after December 15, 2019 with early adoption permitted for annual reporting periods beginning after December 15, 2018. We do not expect the adoption of ASU 2016-13 to have a material impact on our consolidated financial statements.

In March 2016, the FASB issued ASU 2016-09, Improvements to Employee Share-Based Payment Accounting (“ASU 2016-09”), which amends Accounting Standards Codification (“ASC”) Topic 718, Compensation – Stock Compensation. ASU 2016-09, simplifies various aspects related to how share-based payments are accounted for and presented in the financial statements including income taxes and forfeitures of awards. ASU 2016-09 is effective for annual reporting periods beginning after December 15, 2016, and interim periods within that reporting period. Early adoption is permitted in any interim or annual period, with any adjustments reflected as of the beginning of the fiscal year of adoption. We have not yet determined the impact, if any, that ASU 2016-09 will have on our consolidated financial statements.

In March 2016, the FASB issued ASU 2016-05, Derivatives and Hedging: Effect of Derivative Contract Novations on Existing Hedge Accounting Relationships (“ASU 2016-05”), which clarifies that a change in the counterparty to a derivative instrument that has been designated as the hedging instrument in an existing hedging relationship would not, in and of itself, be considered a termination of the derivative instrument or a change in a critical term of the hedging relationship. As long as all other hedge accounting criteria in ASC 815, Derivatives and Hedging (“ASC 815”) are met, a hedging relationship in which the hedging derivative instrument is novated would not be discontinued or require redesignation. This clarification applies to both cash flow and fair value hedging relationships. The standard is effective for fiscal years beginning after December 15, 2016, and interim periods within those fiscal years. Early adoption is permitted. We do not expect the adoption of ASU 2016-05 to have a material impact on our consolidated financial statements.

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In February 2016, the FASB issued ASU 2016-02, Leases (“ASU 2016-02”) which includes a lessee accounting model that recognizes two types of leases - finance leases and operating leases. The standard requires that a lessee recognize on the balance sheet assets and liabilities for leases with lease terms of more than 12 months. The recognition, measurement, and presentation of expenses and cash flows arising from a lease by a lessee will depend on its classification as a finance or an operating lease. The standard is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. Early adoption is permitted. The new standard must be adopted using a modified retrospective transition, and provides for certain practical expedients. Transition will require application of the new guidance at the beginning of the earliest comparative period presented. We are evaluating the impact that ASU 2016-02 will have on our consolidated financial statements and will update our accounting policies accordingly.

In July 2015, as part of its simplification initiative, the FASB issued ASU 2015-11, Simplifying the Measurement of Inventory (“ASU 2015-11”). ASU 2015-11 simplifies the subsequent measurement of inventory by requiring entities to remeasure inventory at the lower of cost and net realizable value, which is defined as the estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal, and transportation. This ASU does not apply to inventory measured using the last-in, first-out or the retail inventory method. We are required to adopt this standard in the first quarter of 2017. This standard is required to be applied prospectively with earlier application permitted as of the beginning of an interim or annual period. The adoption of ASU 2015-11 is not expected to have a material impact on our consolidated financial statements.

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers (Topic 606) which states that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. This guidance is effective for interim and annual periods beginning after December 15, 2017, and may be applied either retrospectively or on a modified retrospective basis. Subsequent to the issuance of the May 2014 guidance, several clarifications and updates have been issued on this topic, the most recent of which was issued in May 2016. We are evaluating the impact, if any, that ASU 2014-09, and any amendments thereto, will have on our consolidated financial statements and will update our accounting policies accordingly.

2. Restructuring Expense

In 2015, as part of our commitment to reduce operating costs and working capital, we commenced a global restructuring of our TiO₂ segment, (the “Global TiQ Restructure”), which we expect to complete during the fourth quarter of 2016. A portion of this initiative involves a reduction in our global TiO₂ workforce by approximately 500 employees and outside contractor positions. The restructuring seeks to streamline the operations of our TiO₂ segment in order to create a more commercially and operationally efficient business segment. This action resulted in a charge, consisting of employee severance and associated costs, of \$14 million, which was recorded in “Restructuring expense” in the Consolidated Statements of Operations for the year ended December 31, 2015 of which \$2 million was paid during 2015. During the three months ended September 30, 2016, we recorded an additional charge related to our TiO₂ segment, consisting of employee severance costs of \$1 million, which was recorded in “Restructuring expense” in the unaudited Condensed Consolidated Statements of Operations. During the nine months ended September 30, 2016, we recorded an additional charge related to our TiO₂ segment, consisting of employee severance costs of \$2 million, which was recorded in “Restructuring expense” in the unaudited Condensed Consolidated Statements of Operations. During the three and nine months ended September 30, 2016, we made cash payments of \$2 million and \$13 million respectively. We expect to pay the remaining \$1 million over the next three months.

As part of our cost improvement initiative, in November 2015 we ceased production at our sodium chlorate plant in Hamilton, Mississippi, (the “Sodium Chlorate Plant Restructure”) resulting in a reduction in our workforce of approximately 50 employees. This action resulted in a charge, consisting primarily of employee severance costs, of \$4 million, which was recorded in “Restructuring expense” in the Consolidated Statements of Operations for the year ended

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December 31, 2015 of which \$1 million was paid during 2015. During the three months and nine months ended September 30, 2016, we made cash payments of \$1 million and \$3 million, respectively.

The cumulative amount incurred to date relating to the Global TiO₂ Restructure and the Sodium Chlorate Plant Restructure is \$16 million and \$4 million, respectively.

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A summary of the changes in the liability established for all restructuring included in accrued liabilities is as follows:

	2016	2015
Balance, January 1	\$15	\$ 4
Additional provision, net	2	7
Cash payments	(16)	(4)
Balance, September 30	\$1	\$ 7

Restructuring expense by segment for the three and nine months ended September 30, 2016 and 2015 was as follows:

	Three Months Ended September 30, 2016	September 30, 2015	Nine Months Ended September 30, 2016	September 30, 2015
TiO ₂ segment	\$ 1	\$ 5	\$ 2	\$ 7

3. Income Taxes

Our operations are conducted through our various subsidiaries in a number of countries throughout the world. We have provided for income taxes based upon the tax laws and rates in the countries in which operations are conducted and income is earned.

	Three Months Ended September 30, 2016	September 30, 2015	Nine Months Ended September 30, 2016	September 30, 2015
Income tax provision	\$ (7)	\$ (11)	\$ (29)	\$ (29)
Loss before income taxes	\$ (35)	\$ (43)	\$ (153)	\$ (189)
Effective tax rate	(20)%	(26)%	(19)%	(15)%

The effective tax rate for the three and nine months ended September 30, 2016 and 2015 differs from the Australian statutory rate of 30% primarily due to valuation allowances, income in foreign jurisdictions taxed at rates lower than 30%, and withholding tax accruals on interest income.

The statutory tax rates on income earned in South Africa (28% for limited liability companies), The Netherlands (25% for corporations), and the United Kingdom (20% for corporations and limited liability companies and not applicable for certain limited liability partners) are lower than the Australian statutory rate of 30%. The statutory tax rate, applied against losses in the United States (35% for corporations), is higher than the Australian statutory rate of 30%.

As a result of the Alkali Transaction, we expect to offset a portion of our previously existing U.S. tax attributes with income generated by the Alkali entities. This expectation, however, does not change our overall judgement regarding the utilization of existing deferred tax assets.

We continue to maintain full valuation allowances related to the total net deferred tax assets in Australia, The Netherlands and the U.S., excluding the Alkali separate company states, as we cannot objectively assert that these deferred tax assets are more likely than not to be realized. Excluding the Alkali separate company states, future provisions for income taxes will include no income tax benefits with respect to losses incurred and income tax expense only to the extent of current state tax payments until the valuation allowances are eliminated. Additionally, we have valuation allowances against specific tax assets in South Africa.

These conclusions were reached by the application of ASC 740, Income Taxes, which require all available positive and negative evidence be weighted to determine whether a valuation allowance should be recorded. The more

significant evidential matter in Australia, The Netherlands and the U.S., relates to recent book losses and the lack of sufficient projected taxable income. The more significant evidential matter for South Africa relates to assets that cannot be depleted or depreciated for tax purposes.

In November 2015, the FASB issued Accounting Standards Update No. 2015-17 (“ASU 2015-17”), “Income Taxes (Topic 740): Balance Sheet Classification of Deferred Taxes.” The standard requires that deferred tax assets and liabilities be classified as noncurrent on the balance sheet rather than being separated into current and noncurrent. ASU 2015-17 is effective for fiscal years, and interim periods within those years, beginning after December 15, 2016. Early adoption is permitted and the standard may be applied either retrospectively or on a prospective basis to all deferred tax assets and liabilities. We early adopted ASU 2015-17 during the fourth quarter of 2015 on a prospective basis. The adoption did not have a material effect on our consolidated financial statements.

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Anadarko Litigation

On January 23, 2015, Anadarko Petroleum Corp. (“Anadarko”) paid \$5.2 billion, including approximately \$65 million of accrued interest, pursuant to the terms of a settlement agreement with Tronox Incorporated. We did not receive any portion of the settlement amount. Instead, 88% of the \$5.2 billion went to trusts and other governmental entities for the remediation of polluted sites by Kerr-McGee Corporation (“Kerr-McGee”). The remaining 12% was distributed to a tort trust to compensate individuals injured as a result of Kerr-McGee’s environmental failures.

We received a private letter ruling from the U.S. Internal Revenue Service confirming that the trusts that held the claims against Anadarko are grantor trusts of Tronox Incorporated solely for federal income tax purposes. As a result, we believe we are entitled to tax deductions equal to the amount spent by the trusts to remediate environmental matters and to compensate the injured individuals. These deductions will accrue over the life of the trusts as the \$5.2 billion is spent. We believe that these expenditures and the accompanying tax deductions may continue for several years. At September 30, 2016, approximately \$2.7 billion of the trust expenditures from the litigation proceeds have been incurred.

4. Loss Per Share

The computation of basic and diluted loss per share for the periods indicated is as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Numerator – Basic and Diluted:				
Net loss	\$(42)	\$(54)	\$(182)	\$(218)
Less: Net income (loss) attributable to noncontrolling interest	(2)	6	(1)	10
Undistributed net loss	(40)	(60)	(181)	(228)
Percentage allocated to ordinary shares ⁽¹⁾	100 %	100 %	100 %	100 %
Loss available to ordinary shares	\$(40)	\$(60)	\$(181)	\$(228)
Denominator – Basic and Diluted:				
Weighted-average ordinary shares (in thousands)	116,219	115,642	116,108	115,529
Loss per Ordinary Share ⁽²⁾ :				
Basic and diluted loss per ordinary share	\$(0.35)	\$(0.52)	\$(1.56)	\$(1.97)

Our participating securities do not have a contractual obligation to share in losses; therefore, when we have a net loss, none of the loss is allocated to participating securities. Consequently, for the three and nine months ended ⁽¹⁾ September 30, 2016 and 2015, the two-class method did not have an effect on our loss per ordinary share calculation, and as such, dividends paid during the year did not impact this calculation.

⁽²⁾ Loss per ordinary share amounts were calculated from exact, not rounded income (loss) and share information.

In computing diluted loss per share under the two-class method, we considered potentially dilutive shares. Anti-dilutive shares not recognized in the diluted earnings per share calculation were as follows:

September 30, 2016		September 30, 2015	
Shares	Average Exercise Price	Shares	Average Exercise Price

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Options	1,997,437	21.20	2,245,145	\$ 21.13
Series A Warrants	1,440,652	8.51	1,306,665	\$ 10.35
Series B Warrants	1,953,250	9.37	1,769,035	\$ 11.42
Restricted share units	5,566,589	7.18	1,505,081	\$ 23.04

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5. Accounts Receivable, Net of Allowance for Doubtful Accounts

Accounts receivable, net of allowance for doubtful accounts, consisted of the following:

	September 30, 2016	December 31, 2015
Trade receivables	\$ 377	\$ 367
Other	19	25
Subtotal	396	392
Allowance for doubtful accounts	(2)	(1)
Accounts receivable, net of allowance for doubtful accounts	\$ 394	\$ 391

Bad debt expense was less than \$1 million for each of the three months ended September 30, 2016 and 2015, respectively, and \$1 million and less than \$1 million for the nine months ended September 30, 2016 and 2015, respectively, and was recorded in "Selling, general and administrative expenses" in the unaudited Condensed Consolidated Statements of Operations.

6. Inventories, Net

Inventories, net consisted of the following:

	September 30 2016	December 31, 2015
Raw materials	\$ 223	\$ 248
Work-in-process	43	43
Finished goods, net	194	245
Materials and supplies, net ⁽¹⁾	104	106
Total	564	642
Less: Inventories, net – non-current	(6)	(12)
Inventories, net – current	\$ 558	\$ 630

⁽¹⁾ Consists of processing chemicals, maintenance supplies, and spare parts, which will be consumed directly and indirectly in the production of our products.

Finished goods include inventory on consignment of \$28 million and \$30 million at September 30, 2016 and December 31, 2015, respectively. At September 30, 2016 and December 31, 2015, inventory obsolescence reserves were \$19 and \$18 million, respectively. At September 30, 2016 and December 31, 2015, reserves for lower of cost or market were \$35 million and \$63 million, respectively.

7. Property, Plant and Equipment, Net

Property, plant and equipment, net of accumulated depreciation, consisted of the following:

	September 30, 2016	December 31, 2015
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Land and land improvements	\$ 157		\$ 143	
Buildings	304		189	
Machinery and equipment	1,885		1,765	
Construction-in-progress	153		261	
Other	49		44	
Subtotal	2,548		2,402	
Less accumulated depreciation and amortization	(698)	(559)
Property, plant and equipment, net ⁽¹⁾	\$ 1,850		\$ 1,843	

(1)Substantially all of these assets are pledged as collateral for our debt. See Note 11.

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Depreciation expense related to property, plant and equipment during the three months ended September 30, 2016 and 2015 was \$44 million and \$53 million, respectively, of which \$43 million and \$52 million, respectively, was recorded in “Cost of goods sold” in the unaudited Condensed Consolidated Statements of Operations and \$1 million each, was recorded in “Selling, general and administrative expenses” in the unaudited Condensed Consolidated Statements of Operations. Depreciation expense related to property, plant and equipment during the nine months ended September 30, 2016 and 2015 was \$126 million and \$138 million, respectively, of which \$123 million and \$135 million, respectively, was recorded in “Cost of goods sold” in the unaudited Condensed Consolidated Statements of Operations and \$3 million each, was recorded in “Selling, general and administrative expenses” in the unaudited Condensed Consolidated Statements of Operations. In April 2016, we officially commissioned our Fairbreeze mine in KZN and began depreciating related assets in service.

8. Mineral Leaseholds, Net

Mineral leaseholds, net of accumulated depletion, consisted of the following:

	September 30, 2016		December 31, 2015
Mineral leaseholds	\$ 1,996		\$ 1,948
Less accumulated depletion	(379	)	(344)
Mineral leaseholds, net	\$ 1,617		\$ 1,604

Depletion expense related to mineral leaseholds during the three months ended September 30, 2016 and 2015 was \$10 million and \$22 million, respectively, and during the nine months ended September 30, 2016 and 2015 was \$30 million and \$64 million, respectively, which was recorded in “Cost of goods sold” in the unaudited Condensed Consolidated Statements of Operations.

9. Intangible Assets, Net

Intangible assets, net of accumulated amortization, consisted of the following:

	September 30, 2016			December 31, 2015		
	Gross Cost	Accumulated Amortization	Net Carrying Amount	Gross Cost	Accumulated Amortization	Net Carrying Amount
Customer relationships	\$294	\$ (113)	\$ 181	\$294	\$ (98)	\$ 196
TiO ₂ technology	32	(9)	23	32	(8)	24
Internal-use software	38	(16)	22	37	(13)	24
Other	9	(9)	—	9	(9)	—
Intangible assets, net	\$373	\$ (147)	\$ 226	\$372	\$ (128)	\$ 244

Amortization expense related to intangible assets during the three months ended September 30, 2016 and 2015 was \$6 million and \$7 million, respectively, of which less than \$1 million each was recorded in “Cost of goods sold” in the unaudited Condensed Consolidated Statements of Operations and \$6 million and \$7 million was recorded in “Selling, general and administrative expenses” in the unaudited Condensed Consolidated Statements of Operations.

Amortization expense related to intangible assets during the nine months ended September 30, 2016 and 2015 was \$19 million and \$20 million, respectively, of which \$1 million each was recorded in “Cost of goods sold” in the unaudited Condensed Consolidated Statements of Operations and \$18 million and \$19 million, respectively, was recorded in “Selling, general and administrative expenses” in the unaudited Condensed Consolidated Statements of Operations. Estimated future amortization expense related to intangible assets is \$6 million for the remainder of 2016,

\$25 million for each of the years from 2017 through 2020 and \$120 million thereafter.

10. Accrued Liabilities

Accrued liabilities consisted of the following:

	September 30, 2016	December 31, 2015
Employee-related costs and benefits	\$ 80	\$ 69
Restructuring costs	1	15
Interest	10	35
Sales rebates	24	28
Taxes other than income taxes	10	11
Other	23	22
Accrued liabilities	\$ 148	\$ 180

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11. Debt

Short-term debt

Our short-term debt consisted of a UBS Revolver, defined below, and was \$150 million at both September 30, 2016 and December 31, 2015. The average effective interest rates of our UBS Revolver were 4.4% and 4.1% during the three and nine months ended September 30, 2016, respectively, and 4.3% and 3.4% during the three and nine months ended September 30, 2015, respectively.

UBS Revolver

We have a global senior secured asset-based syndicated revolving credit facility with UBS AG (“UBS”) with an original maturity date of June 18, 2017 (the “UBS Revolver”). Through March 31, 2015, the UBS Revolver provided us with a committed source of capital with a principal borrowing amount of up to \$300 million, subject to a borrowing base. Balances due under the UBS Revolver are carried at contracted amounts, which approximate fair value based on the short term nature of the borrowing and the variable interest rate.

On April 1, 2015, in connection with the Alkali Transaction, we entered into an amended and restated asset-based revolving syndicated facility agreement with UBS, which provides for up to \$500 million of revolving credit lines, with a \$85 million sublimit for letters of credit with a new maturity that is the earlier of the date which is five years after the closing date and the date which is three months prior to the maturity of the Term Loan Agreement; provided that in no event shall the Revolving Maturity be earlier than June 18, 2017. Availability of revolving credit loans and letters of credit are subject to a borrowing base. Borrowings bear interest at our option, at either a base rate or an adjusted London Interbank Offered Rate (“LIBOR”) as the greatest of (a) the Administrative Agent’s prime rate, (b) the Federal funds effective rate plus 0.50% and (c) the adjusted LIBOR for a one-month period plus 1.00%. The applicable margin ranges from 0.50% to 1.00% for borrowings at the base rate and from 1.50% to 2.00% for borrowings at the adjusted LIBOR, in each case, based on the average daily borrowing availability.

On April 1, 2015, we borrowed \$150 million against the UBS Revolver, which was outstanding at both September 30, 2016 and December 31, 2015. During the three and nine months ended September 30, 2016, we had no drawdowns or repayments on the UBS Revolver. During both the three and nine months ended September 30, 2015, we had \$150 million of drawdowns and no repayments on the UBS Revolver. We incurred \$2 million of deferred debt issuance costs related to the UBS Revolver, which were capitalized and included in “Other long-term assets” in the unaudited condensed consolidated balance sheet at September 30, 2015. At September 30, 2016 and December 31, 2015, our amount available to borrow was \$173 million and \$217 million, respectively.

ABSA Revolving Credit Facility

We have a R1.3 billion (approximately \$95 million at September 30, 2016) revolving credit facility with ABSA Bank Limited (“ABSA”) acting through its ABSA Capital Division with a maturity date of June 14, 2017 (the “ABSA Revolver”). The ABSA Revolver bears interest at (i) the base rate (defined as one month Johannesburg Interbank Agreed Rate, which is the mid-market rate for deposits in South African Rand for a period equal to the relevant period which appears on the Reuters Screen SAFETY Page alongside the caption YLD) as of 11h00 Johannesburg time on the first day of the applicable period, plus (ii) the margin, which is 3.9%.

During the three and nine months ended September 30, 2016 and 2015, we had no drawdowns or repayments on the ABSA Revolver. At both September 30, 2016 and December 31, 2015, there were no outstanding borrowings on the ABSA Revolver.

Long-term debt, net of an unamortized discount and debt issuance costs, consisted of the following:

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	Original Principal	Annual Interest Rate	Maturity Date	September 30, 2016	December 31, 2015
Term Loan, net of unamortized discount ⁽¹⁾	\$ 1,500	Variable	3/19/2020	\$ 1,444	\$ 1,454
Senior Notes due 2020	\$ 900	6.375	% 8/15/2020	896	900
Senior Notes due 2022	\$ 600	7.50	% 3/15/2022	584	600
Co-generation Unit Financing Arrangement	\$ 16	6.5	% 2/1/2016	—	1
Lease financing				19	16
Total borrowings				2,943	2,971
Less: Long-term debt due within one year				(16	) (16
Debt issuance costs				(38	) (45
Long-term debt				\$ 2,889	\$ 2,910

⁽¹⁾ Average effective interest rate of 4.9% each during the three and nine months ended September 30, 2016, respectively, and 4.7% and 4.6% during the three and nine months ended September 30, 2015, respectively.

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At September 30, 2016, the scheduled maturities of our long-term debt were as follows:

	Total Borrowings
2016	\$ 4
2017	16
2018	16
2019	16
2020	2,298
Thereafter	598
Total	2,948
Remaining accretion associated with the Term Loan	(5)
Total borrowings	\$ 2,943

Term Loan

On March 19, 2013, we, along with our wholly owned subsidiary, Tronox Pigments (Netherlands) B.V., and certain of our subsidiaries named as guarantors, entered into a Second Amended and Restated Credit and Guaranty Agreement (the “Second Agreement”) with Goldman Sachs Bank USA, as administrative agent and collateral agent, and Goldman Sachs Bank USA, UBS Securities LLC, Credit Suisse Securities (USA) LLC and RBC Capital Markets, as joint lead arrangers, joint bookrunners and co-syndication agents. Pursuant to the Second Agreement, we obtained a \$1.5 billion senior secured term loan (the “Term Loan”). The Term Loan was issued net of an original issue discount. At September 30, 2016 and December 31, 2015, the unamortized discount was \$5 million and \$6 million, respectively. During the three months ended September 30, 2016 and 2015, we made principal repayments of \$4 million each, and during the nine months ended September 30, 2016 and 2015, we made principal repayments of \$11 million each.

On April 23, 2014, we, along with our wholly owned subsidiary, Tronox Pigments (Netherlands) B.V., and certain of our subsidiaries named as guarantors, entered into a Third Amendment to the Credit and Guaranty Agreement (the “Third Agreement”) with the lender parties thereto and Goldman Sachs Bank USA, as administrative agent, which amends the Second Agreement. The Third Agreement provides for the re-pricing of the Term Loan by replacing the existing definition of “Applicable Margin” with a grid pricing matrix dependent upon our public corporate family rating as determined by Moody’s and Standard & Poor’s (with the interest rate under the Third Agreement remaining subject to Eurodollar Rate and Base Rate floors, as defined in the Third Agreement). Pursuant to the Third Agreement, based upon our current public corporate family rating by Moody’s and Standard & Poor’s, the current interest rate per annum is 350 basis points plus LIBOR (subject to a LIBOR floor of 1% per annum) compared to 350 basis points plus LIBOR (subject to a LIBOR floor of 1% per annum) in the Second Agreement. The Third Agreement also amended certain provisions of the Second Agreement to permit us and certain of our subsidiaries to obtain new cash flow revolving credit facilities in place of our existing asset based revolving credit facility. The maturity date under the Second Agreement and all other material terms of the Second Agreement remain the same under the Third Agreement. Debt issuance cost related to the Term Loan of \$18 million was recorded as a direct reduction to the carrying value of the long-term debt as described below.

Senior Notes due 2020

On August 20, 2012, our wholly owned subsidiary, Tronox Finance LLC (“Tronox Finance”), completed a private placement offering of \$900 million aggregate principal amount of senior notes at par value (the “Senior Notes due 2020”). The Senior Notes due 2020 bear interest semiannually at a rate equal to 6.375%, and are fully and unconditionally guaranteed on a senior, unsecured basis by us and certain of our subsidiaries. The Senior Notes due 2020 were initially offered to qualified institutional buyers pursuant to Rule 144A under the Securities Act of 1933, as amended (the “Securities Act”), and outside the United States to non-U.S. persons pursuant to Regulation S under the

Securities Act. Debt issuance costs related to the Senior Notes Due 2020 of \$10 million were recorded as a direct reduction to the carrying value of the long-term debt as described below.

On September 17, 2013, Tronox Finance issued \$900 million in aggregate principal amount of registered 6.375% Senior Notes due 2020 in exchange for its then existing \$900 million in aggregate principal amount of its 6.375% Senior Notes due 2020. The Senior Notes due 2020 are guaranteed by Tronox and certain of its subsidiaries. See Note 22. There were no repayments during the three months ended September 30, 2016 and 2015. During the nine months ended September 30, 2016, we repurchased \$4 million of face value of notes at a price of 77% of par, resulting in a net gain of approximately \$1 million which was included in “Gain on extinguishment of debt” in the unaudited Condensed Consolidated Statements of Operations.

Senior Notes due 2022

On March 6, 2015, Evolution Escrow Issuer LLC (“Evolution”), a special purpose limited liability company organized under the laws of Delaware, was formed. Evolution was wholly owned by Stichting Evolution Escrow, a Dutch foundation not affiliated with the Company.

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On March 19, 2015, Evolution closed an offering of \$600 million aggregate principal amount of its 7.50% Senior Notes due 2022 (the “Senior Notes due 2022”). The Senior Notes due 2022 were offered and sold by Evolution in reliance on an exemption pursuant to Rule 144A and Regulation S under the Securities Act. The Senior Notes due 2022 were issued under an Indenture, dated as of March 19, 2015 (the “Indenture”), between Evolution and Wilmington Trust, National Association (the “Trustee”).

On April 1, 2015, in connection with the Alkali Transaction, Evolution merged with and into Tronox Finance. Tronox Finance assumed the obligations of Evolution under the Indenture and the Senior Notes due 2022, and the proceeds from the offering were released to us to partially pay the purchase price for the Alkali Transaction. We and certain of our subsidiaries entered into a supplemental indenture (the “First Supplemental Indenture”), by and among us, Tronox Finance, the guarantors party thereto, and the Trustee, pursuant to which we and such subsidiaries became guarantors of the Senior Notes due 2022 under the Indenture. The Senior Notes due 2022 have not been registered under the Securities Act, and may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements. There were no repayments during the three months ended September 30, 2016 and 2015. During the nine months ended September 30, 2016, we repurchased \$16 million of face value of notes at a weighted average price of 76% of par, resulting in a net gain of approximately \$3 million which was included in “Gain on extinguishment of debt” in the unaudited Condensed Consolidated Statements of Operations. Debt issuance costs related to the Senior Notes due 2022 of \$10 million were recorded as a direct reduction of the carrying value of the long term-debt as described below.

The Indenture and the Senior Notes due 2022 provide, among other things, that the Senior Notes due 2022 are senior unsecured obligations of Tronox Finance. Interest is payable on March 15 and September 15 of each year beginning on September 15, 2015 until their maturity date of March 15, 2022. The terms of the Indenture, among other things, limit, in certain circumstances, the ability of us to: incur certain additional indebtedness and issue preferred stock; make certain dividends, distributions, investments and other restricted payments; sell certain assets; incur liens; agree to any restrictions on the ability of certain subsidiaries to make payments to the Company; consolidate or merge with or into, or sell substantially all of our assets to, another person; enter into transactions with affiliates; and enter into new lines of business.

Liquidity and Capital Resources

As of September 30, 2016, we had \$173 million available under the \$500 million UBS Revolver, \$95 million available under the ABSA Revolver and \$202 million in cash and cash equivalents. In the next twelve months, we expect that our operations and available borrowings under our revolving credit agreements will provide sufficient cash to fund our operating expenses, capital expenditures, interest payments, debt repayments, and dividends.

Lease Financing

We have capital lease obligations in South Africa, which are payable through 2031 at a weighted average interest rate of approximately 14%. At both September 30, 2016 and December 31, 2015, such obligations had a net book value of assets recorded under capital leases aggregating \$14 million. During each of the three and nine months ended September 30, 2016 and 2015, we made principal payments of less than \$1 million.

Bridge Facility

In connection with the Alkali Transaction, we entered into a \$600 million senior unsecured bridge facility (the “Bridge Facility”). The Bridge Facility was not utilized and terminated with the completion of the Alkali Transaction. During the nine months ended September 30, 2015, we incurred \$8 million of financing fees related to the Bridge Facility, which were included in “Interest and debt expense, net” in the unaudited Condensed Consolidated Statements of Operations.

Fair Value

Our debt is recorded at historical amounts. At September 30, 2016 and December 31, 2015, the fair value of the Term Loan was \$1.4 billion and \$1.3 billion, respectively. At September 30, 2016 and December 31, 2015, the fair value of the Senior Notes due 2020 was \$841 million and \$520 million, respectively. At September 30, 2016 and December 31, 2015, the fair value of the Senior Notes due 2022 was \$537 million and \$347 million, respectively. We determined the fair value of the Term Loan, the Senior Notes due 2020 and the Senior Notes due 2022 using quoted market prices. The fair value hierarchy for the Term Loan, the Senior Notes due 2020 and the Senior Notes due 2022 is a Level 1 input. Balances outstanding under our UBS Revolver are carried at contracted amounts, which approximate fair value based on the short term nature of the borrowing and the variable interest rate. The fair value hierarchy for our UBS Revolver is a Level 2 input.

Debt Covenants

At September 30, 2016, we had financial covenants in the UBS Revolver, the ABSA Revolver and the Term Loan; however, only the ABSA Revolver had a financial maintenance covenant that applies to local operations and only when the ABSA Revolver is drawn upon. The Term Loan and the UBS Revolver are subject to an intercreditor agreement pursuant to which the lenders' respective rights and interests in the security are set forth. We were in compliance with all our financial covenants as of and for the three and nine months ended September 30, 2016.

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Interest and Debt Expense, Net

Interest and debt expense, net in the unaudited Condensed Consolidated Statements of Operations consisted of the following:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Interest on debt	\$ 43	\$ 43	\$ 130	\$ 117
Amortization of deferred debt issuance costs and discounts on debt	3	3	8	8
Bridge Facility	—	—	—	8
Other	—	1	2	3
Capitalized interest	—	(2)	(2)	(5)
Total interest and debt expense, net	\$ 46	\$ 45	\$ 138	\$ 131

In connection with obtaining debt, we incurred debt issuance costs, which are being amortized through the respective maturity dates using the effective interest method. At both September 30, 2016 and December 31, 2015, we had deferred debt issuance costs of \$4 million related to the UBS Revolver and ABSA Revolver which are recorded in “Other long-term assets” in the unaudited Condensed Consolidated Balance Sheets and \$38 million and \$45 million, respectively, as a direct reduction of the carrying value of the long-term debt.

12. Asset Retirement Obligations

Asset retirement obligations consist primarily of rehabilitation and restoration costs, landfill capping costs, decommissioning costs, and closure and post-closure costs. Activity related to asset retirement obligations was as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Balance, January 1,	\$ 78	\$ 88	\$ 81	\$ 90
Additions	—	1	1	2
Accretion expense	1	1	4	4
Remeasurement/translation	3	(7)	5	(12)
Changes in estimates, including cost and timing of cash flows	—	(1)	(9)	—
Settlements/payments	—	—	—	(2)
Balance, September 30,	\$ 82	\$ 82	\$ 82	\$ 82

Asset retirement obligations were classified as follows:

	September 30, 2016	September 30, 2015
Current portion included in “Accrued liabilities”	\$ 4	\$ 6
Noncurrent portion included in “Asset retirement obligations”	78	76
Asset retirement obligations	\$ 82	\$ 82

During the nine months ended September 30, 2016, we amended our lease agreement for our TiO₂ pigment facility in Botlek, The Netherlands, which included an option to extend the lease term for an additional 25 years. This

amendment increased the estimated useful life used in determining the asset retirement obligation and consequently, we recognized a \$10 million reduction to this liability.

Environmental Rehabilitation Trust

In accordance with applicable regulations, we have established an environmental rehabilitation trust for the prospecting and mining operations in South Africa, which receives, holds, and invests funds for the rehabilitation or management of asset retirement obligations. The trustees of the fund are appointed by us, and consist of sufficiently qualified employees capable of fulfilling their fiduciary duties. At September 30, 2016 and December 31, 2015, the environmental rehabilitation trust assets were \$13 million and \$12 million, respectively, which were recorded in “Other long-term assets” in the unaudited Condensed Consolidated Balance Sheets.

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13. Derivative Instruments

We manufacture and market our products in a number of countries throughout the world and, as a result, are exposed to changes in foreign currency exchange rates, particularly in South Africa, Australia, and The Netherlands. Costs in South Africa and Australia are primarily incurred in local currencies, while the majority of revenues are in U.S. dollars. In Europe, the majority of revenues and costs are in the local currency. This leaves us exposed to movements in the South African Rand and the Australian dollar versus the U.S. dollar.

Our businesses rely on natural gas as one of the main fuel sources in our production process. Natural gas prices have historically been volatile. Natural gas prices could increase as a result of reduced domestic drilling and production activity. Drilling and production operations are subject to extensive federal, state, local and foreign laws and government regulations, which could directly curtail such activity or increase the cost of drilling, resulting in reduced levels of drilling activity and therefore increased natural gas prices. This exposes us to commodity price risk.

We mitigate our exposures to currency risks and commodity price risks, through a controlled program of risk management that includes the use of derivative financial instruments. We enter into foreign exchange forward contracts to reduce the effects of fluctuating foreign currency exchange rates. We also use commodity price swap contracts and forward purchase contracts to manage forecasted energy exposure.

We formally document all relationships between hedging instruments and hedged items, as well as the risk management objective and strategy for undertaking our hedge transactions. This process includes relating derivatives that are designated as cash flow hedges to specific assets and liabilities on the balance sheet or to specific firm commitments or forecasted transactions. We also formally assess both at the inception of the hedge and throughout its term, whether each derivative is highly effective in offsetting changes in cash flows of the hedged item. If we determine that a derivative is not highly effective as a hedge, or if a derivative ceases to be a highly effective hedge, we discontinue hedge accounting with respect to that derivative prospectively. On the date the derivative instrument is entered into, we assess whether to designate the derivative a hedge of the variability of cash flows to be received or paid related to a forecasted transaction (cash flow hedge) or not. We recognize all derivatives in the unaudited Condensed Consolidated Balance Sheets at fair value.

Our currency forward contracts are not designated for hedge accounting treatment under ASC 815. As such, changes in the fair value are recorded in "Other income (expense), net" in the unaudited Condensed Consolidated Statements of Operations. We did not record any gains or losses during the three and nine months ended September 30, 2016 and 2015 related to forward contracts. At September 30, 2016 and December 31, 2015, we did not have any currency forward contracts in place.

We have designated our natural gas commodity price swap contracts, which qualify as cash flow hedges, for hedge accounting treatment under ASC 815. Our current natural gas derivative contracts mature on December 31, 2016. We perform an analysis for effectiveness of the derivatives at the end of each quarter based on the terms of the contract and the underlying item being hedged. The effective portion of the change in the fair value of cash flow hedges is deferred in other comprehensive loss and is subsequently recognized in the "Cost of goods sold" in the unaudited Condensed Consolidated Statements of Operations for commodity hedges, when the hedged item impacts earnings. Changes in fair value of derivative assets and liabilities designated as hedging instruments are shown in "Other noncash items affecting net loss" within operating activities in the unaudited Consolidated Statements of Cash Flows. Any portion of the change in fair value of derivatives designated as hedging instruments that is determined to be ineffective is recorded in "Other income (expense), net" in the unaudited Condensed Consolidated Statements of Operations.

At September 30, 2016, we recorded the fair value of the natural gas hedge of \$1 million in "Prepaid and other assets" in the unaudited Condensed Consolidated Balance Sheets, with the offset of \$1 million gain recognized in accumulated other comprehensive loss with no tax impact. See Note 3 to the unaudited condensed consolidated financial

statements. The current open commodity contract hedges forecasted transactions until December 31, 2016. At September 30, 2016, we had an equivalent of 1.0 MMBTUs (millions of British Thermal Units) in aggregate notional volume of outstanding natural gas commodity forward contract to hedge forecasted purchases. The fair value of the natural gas commodity price contract was based on market price quotations and the use of a pricing model. The contract was considered a level 2 input in the fair value hierarchy at September 30, 2016. We did not have any natural gas hedge positions at December 31, 2015.

14. Commitments and Contingencies

Purchase Commitments—At September 30, 2016, purchase commitments were \$55 million for the remainder of 2016, \$87 million for 2017, \$68 million for 2018, \$50 million for 2019, \$33 million for 2020, and \$162 million thereafter.

Letters of Credit—At September 30, 2016, we had outstanding letters of credit, bank guarantees, and performance bonds of \$67 million, of which \$42 million were letters of credit issued under the UBS Revolver, \$18 million were bank guarantees and letters of credit issued under the ABSA Revolver, \$5 million were bank guarantees issued by Standard Bank and \$2 million were performance bonds issued by Westpac Banking Corporation.

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Other Matters—From time to time, we may be party to a number of legal and administrative proceedings involving legal, environmental, and/or other matters in various courts or agencies. These proceedings, individually and in the aggregate, may have a material adverse effect on us. These proceedings may be associated with facilities currently or previously owned, operated or used by us and/or our predecessors, some of which may include claims for personal injuries, property damages, cleanup costs, and other environmental matters. Current and former operations may also involve management of regulated materials that are subject to various environmental laws and regulations including the Comprehensive Environmental Response Compensation and Liability Act, the Resource Conservation and Recovery Act or state equivalents. Similar environmental laws and regulations and other requirements exist in foreign countries in which we operate. Currently, we are not party to any pending legal or administrative proceedings that may have a material adverse effect, either individually or in the aggregate, on our business, financial condition or results of operation

15. Shareholders' Equity

The changes in outstanding Class A ordinary shares ("Class A Shares") and Class B Shares for the nine months ended September 30, 2016 were as follows:

Class A Shares:	
Balance at January 1, 2016	64,521,851
Shares issued for share-based compensation	717,041
Shares cancelled for share-based compensation	(89,062)
Shares issued upon warrants exercised	140
 Balance at September 30, 2016	 65,149,970
Class B Shares:	
Balance at January 1, 2016 and September 30, 2016	51,154,280

Warrants

We have outstanding Series A Warrants (the "Series A Warrants") and Series B Warrants (the "Series B Warrants"), together (the "Warrants"). At September 30, 2016, holders of the Series A Warrants and the Series B Warrants were entitled to purchase 6.02 and 6.03 of Class A Shares, respectively, and receive \$12.50 in cash at an exercise price of \$51.22 for each Series A Warrant and \$56.52 for each Series B Warrant. The Warrants have a seven-year term from the date initially issued and will expire on February 14, 2018. A holder may exercise the Warrants by paying the applicable exercise price in cash or exercising on a cashless basis. The Warrants are freely transferable by the holder. At September 30, 2016 and December 31, 2015, there were 239,311 and 239,316 Series Warrants outstanding, respectively, and 323,922 and 323,999 Series B Warrants outstanding, respectively.

Dividends

During 2016, we declared and paid quarterly dividends to holders of our Class A Shares and Class B Shares as follows:

Three Months Ended March 31, 2016	Three Months Ended June 30, 2016	Three Months Ended September 30, 2016
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Dividend per share	\$ 0.25	\$0.045	\$ 0.045
Total dividend	\$ 30	\$ 5	\$ 5
Record date (close of business)	March 4	May 16	August 17

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Accumulated Other Comprehensive Loss Attributable to Tronox Limited

The tables below present changes in accumulated other comprehensive loss by component for the nine months ended September 30, 2016 and 2015.

	Cumulative Translation Adjustment	Pension Liability Adjustment	Unrealized Gains on Derivatives	Total
Balance, January 1, 2016	\$ (494)	\$ (102)	\$ —	\$(596)
Other comprehensive income (loss)	91	(21)	1	71
Balance, September 30, 2016	\$ (403)	\$ (123)	\$ 1	\$(525)

	Cumulative Translation Adjustment	Pension Liability Adjustment	Unrealized Gains on Derivatives	Total
Balance, January 1, 2015	\$ (279)	\$ (117)	\$ —	\$(396)
Other comprehensive income (loss)	(138)	3	—	(135)
Balance, September 30, 2015	\$ (417)	\$ (114)	\$ —	\$(531)

16. Noncontrolling Interest

Exxaro has a 26% ownership interest in each of our Tronox KZN Sands (Pty) Ltd. and Tronox Mineral Sands (Pty) Ltd. subsidiaries in order to comply with the ownership requirements of the Black Economic Empowerment legislation in South Africa. Exxaro is entitled to exchange this interest for approximately 3.2% in additional Class B Shares under certain circumstances. Exxaro also has a 26% ownership interest in certain of our other non-operating subsidiaries. We account for such ownership interest as “Noncontrolling interest” in the unaudited condensed consolidated financial statements.

Noncontrolling interest activity was as follows:

	2016	2015
Balance, January 1	\$112	\$178
Net income (loss) attributable to noncontrolling interest	(1)	10
Effect of exchange rate changes	31	(49)
Balance, September 30	\$142	\$139

17. Share-Based Compensation

Share-based compensation expense consisted of the following:

	Three Months Ended September 30, 2016	September 30, 2015	Nine Months Ended September 30, 2016	September 30, 2015
Restricted shares and restricted share units	\$ 7	\$ 2	\$ 15	\$ 11
Options	2	1	3	4
T-Bucks Employee Participation Plan	—	1	1	2
Total share-based compensation expense	\$ 9	\$ 4	\$ 19	\$ 17

Tronox Limited Management Equity Incentive Plan

On June 15, 2012, we adopted the Tronox Limited Management Equity Incentive Plan (the “MEIP”), which permits the grant of awards that are comprised of incentive options, nonqualified options, share appreciation rights, restricted shares, restricted share units, performance awards, and other share-based awards, cash payments, and other forms as the compensation committee of the Board of Directors (the “Board”) in its discretion deems appropriate, including any combination of the above. Subject to further adjustment, the maximum number of shares which may be the subject of awards (inclusive of incentive options) is 20,781,225 Class A Shares. These shares were increased by 8,000,000 on the affirmative vote of our shareholders on May 25, 2016.

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Restricted Shares

During the nine months ended September 30, 2016, we granted 244,362 restricted shares which vest ratably over a three-year period and 47,531 shares which vested immediately. The 47,531 restricted shares that vested immediately were granted to certain members of the Board in lieu of cash fees earned during the first and second quarters of 2016. These awards are classified as equity awards, and are accounted for using the fair value established at the grant date.

The following table presents a summary of activity for the nine months ended September 30, 2016:

	Number of Shares	Weighted Average Grant Date Fair Value
Outstanding, January 1, 2016	373,278	\$ 22.02
Granted	291,893	3.89
Vested	(169,634)	16.91
Forfeited	(211,137)	22.37
Outstanding, September 30, 2016	284,400	\$ 6.09
Expected to vest, September 30, 2016	284,400	\$ 6.09

At September 30, 2016, there was \$1 million of unrecognized compensation expense related to nonvested restricted shares which is expected to be recognized over a weighted-average period of 1.8 years. Since the restricted shares were granted to certain members of our Board as indicated above, the unrecognized compensation expense was not adjusted for estimated forfeitures. The weighted-average grant-date fair value of restricted shares granted during the nine months ended September 30, 2016 and 2015 was \$3.89 per share and \$22.60 per share, respectively. The total fair value of restricted shares that vested during the nine months ended September 30, 2016 was \$3 million.

Restricted Share Units (“RSUs”)

During the nine months ended September 30, 2016, we granted RSUs which have time and/or performance conditions. Both the time-based awards and the performance-based awards are classified as equity awards. The time-based awards vest ratably over a three-year period, and are valued at the weighted average grant date fair value. The performance-based awards cliff vest at the end of the three years. Included in the performance-based awards are RSUs for which vesting is determined by a Total Stockholder Return (“TSR”) calculation over the applicable measurement period. The TSR metric is considered a market condition for which we use a Monte Carlo simulation to determine the grant date fair value.

	Number of Shares	Weighted Average Grant Date Fair Value
Outstanding, January 1, 2016	1,494,027	\$ 23.04
Granted	4,880,169	4.04
Vested	(547,407)	17.51
Forfeited	(260,200)	17.53
Outstanding, September 30, 2016	5,566,589	\$ 7.18
Expected to vest, September 30, 2016	6,169,907	\$ 6.79

At September 30, 2016, there was \$23 million of unrecognized compensation expense related to nonvested RSUs, adjusted for estimated forfeitures, which is expected to be recognized over a weighted-average period of 1.8 years. The weighted-average grant-date fair value of restricted share units granted during the nine months ended September 30, 2016 and 2015 was \$4.04 per share and \$23.47 per share, respectively. The total fair value of RSUs that vested during the nine months ended September 30, 2016 was \$10 million.

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Options

The following table presents a summary of activity for the nine months ended September 30, 2016:

	Number of Options	Weighted Average Exercise Price	Weighted Average Contractual Life (years)	Intrinsic Value
Outstanding, January 1, 2016	2,189,967	\$ 21.15	7.4	\$ —
Forfeited	(46,087)	20.98		
Expired	(146,443)	20.54		—
Outstanding, September 30, 2016	1,997,437	21.20	6.7	\$ —
Expected to vest, September 30, 2016	232,468	22.04	7.4	\$ —
Exercisable, September 30, 2016	1,772,281	21.09	6.7	\$ —

The aggregate intrinsic values in the table represent the total pre-tax intrinsic value (the difference between our share price at the indicated dates and the options' exercise price, multiplied by the number of in-the-money options) that would have been received by the option holders had all option holders exercised their in-the-money options at the end of the period. The amount will change based on the fair market value of our stock. No options were exercised during the three and nine months ended September 30, 2016 and consequently, there was no related intrinsic value. No options were exercised during the three months ended September 30, 2015 and consequently, there was no related intrinsic value. The total intrinsic value of options exercised during the nine months ended September 30, 2015 was less than \$1 million. We issue new shares upon the exercise of options. As there were no stock options exercised during the three and nine months ended September 30, 2016, no cash was received.

At September 30, 2016, unrecognized compensation expense related to options, adjusted for estimated forfeitures, was \$1 million, which is expected to be recognized over a weighted-average period of 0.4 years.

We did not issue any options during the three and nine months ended September 30, 2016. We did not issue any options during the three months ended September 30, 2015. During the nine months ended September 30, 2015, we granted 2,380 options with a weighted average grant date fair value \$7.04.

Fair value is determined on the grant date using the Black-Scholes option-pricing model and is recognized in earnings on a straight-line basis over the employee service period of three years, which is the vesting period. The fair value is based on the closing price of our Class A Shares on the grant date. The risk-free interest rate is based on U.S. Treasury Strips available with a maturity period consistent with the expected life assumption. The expected volatility assumption is based on historical price movements of our peer group.

T-Bucks Employee Participation Plan ("T-Bucks EPP")

During 2012, we established the T-Bucks EPP for the benefit of certain qualifying employees of our South African subsidiaries. We funded the T-Bucks Trust (the "Trust") with R124 million (approximately \$15 million), which was used to acquire Class A Shares. Additional contributions may be made in the future at the discretion of the Board. The T-Bucks EPP is classified as an equity-settled shared-based payment plan, whereby participants were awarded share units in the Trust, which entitles them to receive Class A Shares upon completion of the vesting period on May 31, 2017. Participants are entitled to receive dividends on the shares during the vesting period. Forfeited shares are retained by the Trust, and are allocated to future participants. Compensation costs are recognized over the vesting

period using the straight-line method. During 2012, the Trust purchased 548,234 Class A Shares at \$25.79 per share, which was the fair value on the date of purchase. The balance at both September 30, 2016 and December 31, 2015 was 548,234 shares.

Long-Term Incentive Plan

We have a long-term incentive plan (the "LTIP") for the benefit of certain qualifying employees of Tronox subsidiaries in South Africa and Australia. The LTIP is classified as a cash settled compensation plan, and is re-measured to fair value at each reporting date. At both September 30, 2016 and December 31, 2015, the LTIP plan liability was less than \$1 million.

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18. Pension and Other Postretirement Healthcare Benefits

We sponsor two noncontributory defined benefit retirement plans in the U.S., the qualified retirement plan and the Alkali qualified retirement plan (the “Tronox Alkali Qualified Plan”). We also have a defined benefit retirement plan and a collective defined contribution plan (a multiemployer plan) in The Netherlands, and a postretirement healthcare plan in South Africa.

The components of net periodic cost associated with our U.S. defined benefit plans and The Netherlands defined benefit plan recognized in the unaudited Condensed Consolidated Statements of Operations were as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Net periodic cost:				
Service cost ⁽¹⁾	\$ 1	\$ 2	\$ 3	\$ 3
Interest cost	5	4	15	15
Expected return on plan assets	(5)	(5)	(15)	(17)
Net amortization of actuarial loss and prior service credit	—	1	1	3
Curtailement gain	(1)	—	(1)	—
Total net periodic cost	\$ —	\$ 2	\$ 3	\$ 4

Includes \$2 million and \$3 million of pension expenses for the three and nine months ended September 30, 2015, ⁽¹⁾respectively, related to the Tronox Alkali Qualified Plan to cover eligible employees of Tronox Alkali Corporation in connection with the Alkali Transaction.

The components of net periodic cost associated with the postretirement healthcare plans was less than \$1 million for each of the three months ended September 30, 2016 and 2015. The components of net periodic cost associated with the postretirement healthcare plans was \$1 million for each of the nine months ended September 30, 2016 and 2015.

For each of the three and nine months ended September 30, 2016 and 2015, we contributed \$1 million and \$3 million, respectively, to The Netherlands multiemployer plan, which was recognized in the unaudited Condensed Consolidated Statement of Operations.

In April 2016, the Board of Trustees (the “Trustees”) of our Netherlands defined benefit plan (“TDF-Botlek Plan”) filed their intentions with the Netherlands Chamber of Commerce to merge the TDF-Botlek Plan into the collective defined contribution plan, a multi-employer plan administered by the industrywide Pension Fund for the Graphical Industry (the “PGB”), which we joined on January 1, 2015. This merger is expected to occur in the fourth quarter of 2016.

The TDF-Botlek Plan is comprised of two defined benefit plans: the “Pension Plan” and a small transition arrangement established in 2005 for the benefit of certain of our Botlek employees (the “VPL Plan”). In August 2016 we agreed with the Trustees to settle the VPL Plan. Under the settlement agreement, we transferred \$1 million into accounts established with the pension fund PGB for the benefit of the participants as a full settlement of our obligation under the VPL Plan. Accordingly, for the three months ended September 30, 2016, we recognized a curtailment gain of \$1 million included in “Other income (expense), net” in the unaudited Condensed Consolidated Statement of Operations. This amount had previously been recognized in “Accumulated other comprehensive loss” in the unaudited Condensed Consolidated Balance Sheet as prior service credits. Consequently, as of August 31, 2016, we remeasured the plan assets and the projected benefit obligation of the TDF-Botlek Plan which resulted in €19 million (approximately \$21

million) of actuarial losses which was recognized in other comprehensive loss for the three and nine months ended September 30, 2016. The merger of the remaining Pension Plan within the TDF-Botlek Plan is expected to occur in the fourth quarter of 2016.

19. Acquisition of Alkali Chemicals Group

On April 1, 2015, we acquired Alkali because it diversifies our end markets and revenue base, and increases our participation in faster growing emerging market economies. We believe it also provides us greater opportunity to utilize a portion of our U.S. tax attributes in future periods. See Note 3 for a discussion of the tax impact of the Alkali Transaction. We accounted for the Alkali Transaction using the acquisition method under ASC 805, Business Combinations, (“ASC 805”), which requires recording assets acquired and liabilities assumed at fair value. Under the acquisition method of accounting, the assets acquired and liabilities assumed were recorded based on their estimated fair values on the Alkali Transaction Date. The results of the Alkali chemical business are included in the Alkali segment. The valuations were derived from estimated fair value assessments and assumptions used by management.

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We funded the Alkali Transaction through existing cash and new debt. See Note 11 for further details of the Alkali Transaction financing.

Purchase Price Allocation

	Valuation
Consideration:	
Purchase price	\$ 1,650
Fair Value of Assets Acquired and Liabilities Assumed:	
Current Assets:	
Accounts receivable	\$ 147
Inventories	48
Prepaid and other assets	32
Total Current Assets	227
Property, plant and equipment ⁽¹⁾	767
Mineral leaseholds ⁽²⁾	739
Other long-term assets	3
Total Assets	\$ 1,736
Current Liabilities:	
Accounts payable	46
Accrued liabilities	28
Total Current Liabilities	74
Noncurrent Liabilities:	
Other	12
Total Liabilities	86
Net Assets	\$ 1,650

The fair value of property, plant and equipment was determined using the cost approach, which estimates the ⁽¹⁾replacement cost of each asset using current prices and labor costs, less estimates for physical, functional and technological obsolescence, based on the estimated useful life ranging from 5 to 38 years.

The fair value of mineral rights was determined using the discounted cash flow method, which was based upon the ⁽²⁾present value of the estimated future cash flows for the expected life of the asset taking into account the relative risk of achieving those cash flows and the time value of money. A discount rate of 10.4% was used taking into account the risks associated with such assets.

There are no contingent liabilities recorded in the fair value of net assets acquired as of the Alkali Transaction Date, and the fair value of net assets acquired includes accounts receivables with book value that approximates fair value.

Supplemental Pro forma financial information

The following unaudited pro forma information gives effect to the Alkali Transaction as if it had occurred on January 1, 2014. The unaudited pro forma financial information reflects certain adjustments related to the acquisition, such as: (1) conforming the accounting policies of Alkali to those applied by Tronox, (2) recording certain incremental expenses resulting from purchase accounting adjustments, such as incremental depreciation expense in connection with fair value adjustments to property, plant and equipment, and depletion expense in connection with fair value adjustments to mineral leaseholds, (3) recording the effect on interest expense related to borrowings in connection with the Alkali Transaction and (4) recording the related tax effects. The unaudited pro forma financial information was adjusted to exclude the effect of certain non-recurring items as of January 1, 2014 such as the impact of

transaction costs related to the Alkali Transaction of approximately \$29 million, inventory step-up amortization of \$9 million and \$8 million of interest expense incurred on the Bridge Facility (see Note 11). Non-recurring transaction costs of \$2 million and \$29 million for the three and nine months ended September 30, 2015, respectively, were excluded from the unaudited supplemental pro forma financial information. The unaudited pro forma financial information is for illustrative purposes only and should not be relied upon as being indicative of the historical results that would have been obtained if the Alkali Transaction had actually occurred on that date, nor the results of operations in the future.

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In accordance with ASC 805, the following table presents the supplemental pro forma results of operations for the three and nine months ended September 30, 2015, as if the Alkali Transaction had occurred on January 1, 2014:

	Three Months Ended September 30, 2015	Nine Months Ended September 30, 2015
Net sales	\$ 575	\$ 1,772
Loss from operations	\$ (19)	\$ (29)
Net loss	\$ (52)	\$ (171)
Loss per share, basic and diluted	\$ (0.45)	\$ (1.48)

20. Related Parties

Exxaro

We have service level agreements with Exxaro for research and development that expire in 2017. We also had service level agreements with Exxaro for services such as tax preparation and information technology which expired during 2015. Such service level agreements amounted to less than \$1 million of expense for each of the three months ended September 30, 2016 and 2015 and \$1 million and \$2 million of expense during the nine months ended September 30, 2016 and 2015, respectively, which was included in "Selling, general and administrative expense" in the unaudited Condensed Consolidated Statements of Operations. Additionally, we have a professional service agreement with Exxaro related to the Fairbreeze construction project. During the three months ended September 30, 2016 and 2015, we paid \$1 million and less than \$1 million, respectively, and during each of the nine months ended September 30, 2016 and 2015, we paid \$2 million to Exxaro, which was capitalized in "Property, plant and equipment, net" in our unaudited Condensed Consolidated Balance Sheets. At September 30, 2016 and December 31, 2015, we had less than \$1 million and \$1 million, respectively, of related party payables, which were recorded in "Accounts payable" in our unaudited Condensed Consolidated Balance Sheets.

ANSAC

We hold a membership in ANSAC, which is responsible for promoting exports of US-produced soda ash. Under the ANSAC membership agreement, Alkali's exports of soda ash to all markets except Canada, the European community, the European Free Trade Association and the Southern African Customs Union are exclusively through ANSAC. Certain sales and marketing costs incurred by ANSAC are charged directly to us. Selling, general and administrative expenses in the unaudited Condensed Consolidated Statement of Operations include amounts charged to us by ANSAC principally consisting of salaries, benefits, office supplies, professional fees, travel, rent and certain other costs, which amounted to \$1 million and \$3 million for the three and nine months ended September 30, 2016, respectively, and \$1 million and \$2 million for the three and nine months ended September 30, 2015, respectively. During the three and nine months ended September 30, 2016, we recorded net sales to ANSAC of \$71 million and \$201 million, respectively, and \$63 million and \$139 million for the three and nine months ended September 30, 2015, respectively, which was included in "Net sales" in the unaudited Condensed Consolidated Statements of Operations. At September 30, 2016 and December 31, 2015, we had \$48 million and \$47 million, respectively, of related party receivables from ANSAC which were recorded in "Accounts receivable, net of allowance for doubtful accounts" in our unaudited Condensed Consolidated Balance Sheets. At September 30, 2016 and December 31, 2015, we had related party payables due to ANSAC of \$1 million and \$2 million, respectively, recorded in "Accounts payable" in our unaudited Condensed Consolidated Balance Sheets. Additionally, during the three and nine month ended September 30, 2016, "Cost of goods sold" in the unaudited Condensed Consolidated Statements of Operations included \$1 million and \$4 million, respectively, and \$2 million and \$3 million for the three and nine months ended September 30, 2015 of charges to us by ANSAC for freight costs incurred on our behalf. At September 30, 2016 and December 31, 2015, "Accounts payable" in the unaudited Condensed Consolidated Balance Sheets included less than \$1

million and \$1 million, respectively, of payables to ANSAC for freight costs incurred on our behalf.

Natron_x Technologies LLC

In connection with the Alkali Transaction, we acquired FMC's one-third ownership interest in a joint venture, Natron_x Technologies LLC ("Natron_x"). Natron_x manufactured and marketed sodium-based, dry sorbents for air pollution control in electric utility and industrial boiler operations. Pursuant to an agreement with Natron_x, we purchase ground trona from a third-party vendor as an agent on its behalf (the "Supply Agreement"). We also provide certain administrative services such as accounting, technology and customer services to Natron_x under a service level agreement (the "SLA"). We are reimbursed by Natron_x for the related costs incurred under the Supply Agreement and the SLA. At both September 30, 2016 and December 31, 2015, we had \$1 million of receivables related to these agreements, which were recorded in "Accounts receivable, net of allowance for doubtful accounts" in the unaudited Condensed Consolidated Balance Sheets.

During April 2016, Natron_x notified its customers of its intent to cease operations and end deliveries of product on June 30, 2016. On September 1, 2016, the Board of Directors of Natron_x approved the demolition of the plant located at Alkali's Westvaco facility and other costs associated with dissolving the joint venture. During the three months ended September 30, 2016, a reserve of \$1 million, representing our one-third share of the estimated expenses related to the termination of the Natron_x business, including severance and other exit activities, was recognized and included in "Selling, general and administrative expenses" in our unaudited Condensed Consolidated Statements of Operations and in "Accrued liabilities" in our unaudited Condensed Consolidated Balance Sheets as of September 30, 2016. We do not expect to incur any future expenses related to the termination of the Natron_x business.

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21. Segment Information

The reportable segments presented below represent our operating segments for which separate financial information is available and which is utilized on a regular basis by our Chief Executive Officer, who is our chief operating decision maker (“CODM”) to assess performance and to allocate resources.

Our TiO₂ operating segment includes the following:

- Exploration, mining, and beneficiation of mineral sands deposits
- Production of titanium feedstock (including chloride slag, slag fines, and rutile), pig iron, and zircon
 - Production and marketing of TiO₂; and
- Electrolytic manganese dioxide manufacturing and marketing

Our Alkali operating segment includes the mining of trona ore for the production from trona of natural soda ash and its derivatives: sodium bicarbonate, sodium sesquicarbonate and caustic soda (collectively referred to as “alkali-products”).

Segment performance is evaluated based on segment operating income (loss), which represents the results of segment operations before unallocated costs, such as general corporate expenses not identified to a specific segment, interest expense, other income (expense), and income tax expense or benefit.

Net sales and income (loss) from operations by segment were as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
TiO ₂ segment	\$ 339	\$ 380	\$ 957	\$ 1,174
Alkali segment	194	195	588	403
Net sales ⁽¹⁾	\$ 533	\$ 575	\$ 1,545	\$ 1,577
TiO ₂ segment	\$ 18	\$ (26	) \$ (12	) \$ (58
Alkali segment	23	21	54	46
Corporate	(16	) (16	) (38	) (68
Income (loss) from operations	25	(21	) 4	(80
Interest and debt expense, net	(46	) (45	) (138	) (131
Gain on extinguishment of debt	—	—	4	—
Other income (expense), net	(14	) 23	(23	) 22
Loss before income taxes	(35	) (43	) (153	) (189
Income tax provision	(7	) (11	) (29	) (29
Net loss	\$ (42	) \$ (54	) \$ (182	) \$ (218

(1) Net sales to external customers, by geographic region, based on country of production, were as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015

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U.S. operations	\$ 348	\$ 359	\$ 1,018	\$ 891
International operations:				
Australia	94	104	258	285
South Africa	45	71	131	252
The Netherlands	46	41	138	149
Total	\$ 533	\$ 575	\$ 1,545	\$ 1,577

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Net sales to external customers for each similar product were as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Pigment	\$ 260	\$ 244	\$ 720	\$ 756
Alkali	194	195	588	403
Titanium feedstock and co-products	64	103	194	333
Electrolytic	15	33	43	85
Total	\$ 533	\$ 575	\$ 1,545	\$ 1,577

During the three months ended September 30, 2016, our ten largest third-party TiO₂ customers and our ten largest Alkali customers represented approximately 25% and 24%, respectively, of our consolidated net sales. During the three months ended September 30, 2015, our ten largest third-party TiO₂ customers and our ten largest Alkali customers represented approximately 28% and 21%, respectively, of our consolidated net sales. During the three months ended September 30, 2016 and 2015, ANSAC accounted for 13% and 11%, respectively, of our consolidated net sales. During the nine months ended September 30, 2016, our ten largest third-party TiO₂ customers and our ten largest Alkali customers represented approximately 23% and 24%, respectively, of our consolidated net sales; ANSAC accounted for 13% of our consolidated net sales. During the nine months ended September 30, 2015, our ten largest third-party TiO₂ customers and our ten largest Alkali customers represented approximately 31% and 16%, respectively, of our consolidated net sales; no single customer accounted for more than 10% of our consolidated sales.

Capital expenditures by segment were as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
TiO ₂ segment	\$ 23	\$ 39	\$ 58	\$ 127
Alkali segment	8	9	28	13
Corporate	1	—	1	1
Total	\$ 32	\$ 48	\$ 87	\$ 141

Total assets by segment were as follows:

	September 30, 2016	December 31, 2015
TiO ₂ segment	\$ 3,018	\$ 3,055
Alkali segment	1,661	1,690
Corporate	246	282
Total	\$ 4,925	\$ 5,027

22. Guarantor Condensed Consolidating Financial Statements

The obligations of Tronox Finance, our wholly-owned subsidiary, under the Senior Notes due 2020 are fully and unconditionally (subject to certain customary circumstances providing for the release of a guarantor subsidiary) guaranteed on a senior unsecured basis, jointly and severally, by Tronox Limited (referred to for purposes of this note only as the “Parent Company”) and each of its current and future restricted subsidiaries, other than excluded subsidiaries, that guarantee any indebtedness of the Parent Company or its restricted subsidiaries (collectively, the “Guarantor Subsidiaries”). The Subsidiary Issuer, Tronox Finance, and each of the Guarantor Subsidiaries are 100% owned, directly or indirectly, by the Parent Company. Our subsidiaries that do not guarantee the Senior Notes due

2020 are referred to as the “Non-Guarantor Subsidiaries.” The guarantor unaudited condensed consolidating financial statements presented below presents the statements of operations, statements of comprehensive income (loss), balance sheets and statements of cash flow data for: (i) the Parent Company, the Guarantor Subsidiaries, the Non-Guarantor Subsidiaries, and the subsidiary issuer, on a consolidated basis (which is derived from Tronox historical reported financial information); (ii) the Parent Company, alone (accounting for our Guarantor Subsidiaries, the Non-Guarantor Subsidiaries, and Tronox Finance on an equity basis under which the investments are recorded by each entity owning a portion of another entity at cost, adjusted for the applicable share of the subsidiary’s cumulative results of operations, capital contributions and distributions, and other equity changes); (iii) the Guarantor Subsidiaries alone; (iv) the Non-Guarantor Subsidiaries alone; and (v) the Subsidiary Issuer, Tronox Finance.

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The guarantor unaudited condensed consolidating financial statements are presented on a legal entity basis, not on a business segment basis. The indentures governing the Senior Notes due 2020 provide for a Guarantor Subsidiary to be automatically and unconditionally released and discharged from its guarantee obligations in certain customary circumstances, including:

Sale or other disposition of such Guarantor Subsidiary's capital stock or all or substantially all of its assets and all of the indenture obligations (other than contingent obligations) of such Guarantor Subsidiary in respect of all other indebtedness of the Guarantors Subsidiary terminate upon the consummation of such transaction;

Designation of such Guarantor Subsidiary as an "unrestricted subsidiary" under the indenture;

- In the case of certain Guarantor Subsidiaries that incur or guarantee indebtedness under certain credit facilities, upon the release or discharge of such Guarantor Subsidiary's guarantee or incurrence of indebtedness that resulted in the creation of such guarantee, except a discharge or release as a result of payment under such guarantee;

Legal defeasance, covenant defeasance, or satisfaction and discharge of the indenture obligations;

Payment in full of the aggregate principal amount of all outstanding Senior Notes due 2020 and all other obligations under the indenture; or

Release or discharge of the Guarantor Subsidiary's guarantee of certain other indebtedness.

GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF OPERATIONS

Three Months Ended September 30, 2016

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net sales	\$ 533	\$ (59)	\$ —	\$ —	\$ 454	\$ 138
Cost of goods sold	453	(62)	—	—	387	128
Gross profit	80	3	—	—	67	10
Selling, general and administrative expenses	(54)	—	—	(6)	(39)	(9)
Restructuring expense	(1)	—	—	—	—	(1)
Income (loss) from operations	25	3	—	(6)	28	—
Interest and debt expense, net	(46)	—	(26)	—	(1)	(19)
Other income (expense), net	(14)	—	—	—	(3)	(11)
Intercompany interest income (expense)	—	—	—	126	(140)	14
Equity in earnings of subsidiary	—	147	—	(117)	(30)	—
Income (loss) before income taxes	(35)	150	(26)	3	(146)	(16)
Income tax benefit (provision)	(7)	—	7	(43)	28	1
Net income (loss)	(42)	150	(19)	(40)	(118)	(15)
Net income (loss) attributable to noncontrolling interest	(2)	(2)	—	—	—	—
Net income (loss) attributable to Tronox Limited	\$ (40)	152	(19)	(40)	(118)	(15)

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GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF OPERATIONS

Nine Months Ended September 30, 2016

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net sales	\$ 1,545	\$ (164)	\$ —	\$ —	\$ 1,311	\$ 398
Cost of goods sold	1,388	(171)	—	—	1,186	373
Gross profit	157	7	—	—	125	25
Selling, general and administrative expenses	(151)	2	—	(20)	(102)	(31)
Restructuring expense	(2)	—	—	—	—	(2)
Income (loss) from operations	4	9	—	(20)	23	(8)
Interest and debt expense, net	(138)	—	(79)	—	(4)	(55)
Gain on extinguishment of debt	4	—	4	—	—	—
Other income (expense), net	(23)	—	—	—	(3)	(20)
Intercompany interest income (expense)	—	—	—	379	(423)	44
Equity in earnings of subsidiary	—	473	—	(401)	(72)	—
Income (loss) before income taxes	(153)	482	(75)	(42)	(479)	(39)
Income tax benefit (provision)	(29)	—	22	(139)	89	(1)
Net income (loss)	(182)	482	(53)	(181)	(390)	(40)
Net income (loss) attributable to noncontrolling interest	(1)	(1)	—	—	—	—
Net income (loss) attributable to Tronox Limited	\$ (181)	\$ 483	\$ (53)	\$ (181)	\$ (390)	\$ (40)

GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

Three Months Ended September 30, 2016

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net income (loss)	\$ (42)	\$ 150	\$ (19)	\$ (40)	\$ (118)	\$ (15)
Other comprehensive income (loss):						
Foreign currency translation adjustments	69	(118)	—	51	68	68
Pension and postretirement plans	(22)	31	—	(22)	(9)	(22)
Unrealized gains (losses) on derivative financial instruments	(1)	1	—	(1)	(1)	—
Other comprehensive income (loss)	46	(86)	—	28	58	46
Total comprehensive income (loss)	4	64	(19)	(12)	(60)	31
Comprehensive income (loss) attributable to noncontrolling interest:						
Net income (loss)	(2)	(2)	—	—	—	—
Foreign currency translation adjustments	18	18	—	—	—	—
Comprehensive income (loss) attributable to noncontrolling interest	16	16	—	—	—	—

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Comprehensive income (loss) attributable to
Tronox Limited \$ (12) \$ 48 \$ (19) \$ (12) \$ (60) \$ 31

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GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

Nine Months Ended September 30, 2016

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net income (loss)	\$ (182)	\$ 482	\$ (53)	\$ (181)	\$ (390)	\$ (40)
Other comprehensive income (loss):						
Foreign currency translation adjustments	122	(208)	—	91	118	121
Pension and postretirement plans	(21)	30	—	(21)	(8)	(22)
Unrealized gains (losses) on derivative financial instruments	1	(1)	—	1	1	—
Other comprehensive income (loss)	102	(179)	—	71	111	99
Total comprehensive income (loss)	(80)	303	(53)	(110)	(279)	59
Comprehensive income (loss) attributable to noncontrolling interest:						
Net income (loss)	(1)	(1)	—	—	—	—
Foreign currency translation adjustments	31	31	—	—	—	—
Comprehensive income (loss) attributable to noncontrolling interest	30	30	—	—	—	—
Comprehensive income (loss) attributable to Tronox Limited	\$ (110)	\$ 273	\$ (53)	\$ (110)	\$ (279)	\$ 59

GUARANTOR CONDENSED CONSOLIDATING BALANCE SHEETS

As of September 30, 2016

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
ASSETS						
Cash and cash equivalents	\$ 202	\$ —	\$ 1	\$ 3	\$ 163	\$ 35
Restricted cash	3	—	—	—	3	—
Accounts receivable, net	394	—	—	—	314	80
Inventories, net	558	(14)	—	—	360	212
Other current assets	45	(4,978)	644	1,831	1,294	1,254
Investment in subsidiaries	—	2,888	—	(3,602)	714	—
Property, plant and equipment, net	1,850	—	—	—	1,338	512
Mineral leaseholds, net	1,617	—	—	—	1,243	374
Intercompany loans receivable	—	(6,942)	610	5,936	77	319
Other long-term assets	256	—	—	—	238	18
Total assets	\$ 4,925	\$ (9,046)	\$ 1,255	\$ 4,168	\$ 5,744	\$ 2,804
LIABILITIES AND EQUITY						
Short-term debt	\$ 150	\$ —	\$ —	\$ —	\$ 150	\$ —
Other current liabilities	383	(4,978)	18	2,691	2,451	201
Long-term debt	2,889	—	1,460	—	—	1,429

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Intercompany loans payable	—	(6,942)	—	611	6,255	76
Other long-term liabilities	496	—	—	1	277	218
Total liabilities	3,918	(11,920)	1,478	3,303	9,133	1,924
Total equity	1,007	2,874	(223)	865	(3,389)	880
Total liabilities and equity	\$ 4,925	\$ (9,046)	\$ 1,255	\$ 4,168	\$ 5,744	\$ 2,804

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GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF CASH FLOWS

Nine Months Ended September 30, 2016

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non-Guarantor Subsidiaries
Cash Flows from Operating Activities:						
Net income (loss)	\$ (182)	\$ 482	\$ (53)	\$ (181)	\$ (390)	\$ (40)
Depreciation, depletion and amortization	175	—	—	—	138	37
Other	130	(482)	(52)	249	456	(41)
Cash provided by (used in) operating activities	123	—	(105)	68	204	(44)
Cash Flows from Investing Activities:						
Capital expenditures	(87)	—	—	—	(57)	(30)
Proceeds from sale of assets	1	—	—	—	1	—
Collections of intercompany loans	—	(181)	126	—	—	55
Issuance of intercompany loans	—	100	(5)	—	(95)	—
Cash provided by (used in) investing activities	(86)	(81)	121	—	(151)	25
Cash Flows from Financing Activities:						
Repayments of debt	(27)	—	(15)	—	—	(12)
Repayments of intercompany loans	—	181	—	(126)	(55)	—
Proceeds from intercompany loans	—	(100)	—	100	—	—
Dividends paid	(40)	—	—	(40)	—	—
Cash provided by (used in) financing activities	(67)	81	(15)	(66)	(55)	(12)
Effects of exchange rate changes on cash and cash equivalents	3	—	—	—	—	3
Net increase (decrease) in cash and cash equivalents	(27)	—	1	2	(2)	(28)
Cash and cash equivalents at beginning of period	\$ 229	\$ —	\$ —	\$ 1	\$ 165	\$ 63
Cash and cash equivalents at end of period	\$ 202	\$ —	\$ 1	\$ 3	\$ 163	\$ 35

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GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF OPERATIONS

Three Months Ended September 30, 2015

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net sales	\$ 575	\$ (51)	\$ —	\$ —	\$ 462	\$ 164
Cost of goods sold	536	(53)	—	—	434	155
Gross profit	39	2	—	—	28	9
Selling, general and administrative expenses	(55)	—	—	(3)	(41)	(11)
Restructuring expense	(5)	—	—	—	(5)	—
Income (loss) from operations	(21)	2	—	(3)	(18)	(2)
Interest and debt expense, net	(45)	—	(27)	—	(2)	(16)
Intercompany interest income (expense)	—	—	—	86	(100)	14
Other income (expense), net	23	—	—	3	5	15
Equity in earnings of subsidiary	—	113	—	(112)	(1)	—
Income (loss) before income taxes	(43)	115	(27)	(26)	(116)	11
Income tax benefit (provision)	(11)	—	8	(34)	17	(2)
Net income (loss)	(54)	115	(19)	(60)	(99)	9
Net income attributable to noncontrolling interest	6	6	—	—	—	—
Net income (loss) attributable to Tronox Limited	\$ (60)	\$ 109	\$ (19)	\$ (60)	\$ (99)	\$ 9

GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF OPERATIONS

Nine Months Ended September 30, 2015

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net sales	\$ 1,577	\$ (154)	\$ —	\$ —	\$ 1,200	\$ 531
Cost of goods sold	1,479	(146)	—	—	1,117	508
Gross profit	98	(8)	—	—	83	23
Selling, general and administrative expenses	(171)	2	(1)	1	(144)	(29)
Restructuring expense	(7)	—	—	—	(7)	—
Income (loss) from operations	(80)	(6)	(1)	1	(68)	(6)
Interest and debt expense, net	(131)	—	(77)	—	(5)	(49)

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Intercompany interest income (expense)	—	—	—	350	(386)	36				
Other income (expense), net	22	—	—	4	2		16				
Equity in earnings of subsidiary	—	480	—	(449	)	(31)	—			
Income (loss) before income taxes	(189	)	474	(78	)	(94	)	(488	)	(3)
Income tax benefit (provision)	(29	)	—	23		(134	)	84		(2)
Net income (loss)	(218	)	474	(55	)	(228	)	(404	)	(5)
Net income attributable to noncontrolling interest	10		10	—		—		—		—	
Net income (loss) attributable to Tronox Limited	\$ (228)	\$ 464	\$ (55)	\$ (228)	\$ (404)	\$ (5)

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GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

Three Months Ended September 30, 2015

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net income (loss)	\$ (54)	\$ 115	\$ (19)	\$ (60)	\$ (99)	\$ 9
Other comprehensive income (loss):						
Foreign currency translation adjustments	(135)	234	—	(100)	(135)	(134)
Pension and postretirement plans	1	(1)	—	1	1	—
Other comprehensive income (loss)	(134)	233	—	(99)	(134)	(134)
Total comprehensive income (loss)	(188)	348	(19)	(159)	(233)	(125)
Comprehensive income (loss) attributable to noncontrolling interest:						
Net income	6	6	—	—	—	—
Foreign currency translation adjustments	(35)	(35)	—	—	—	—
Comprehensive income (loss) attributable to noncontrolling interest	(29)	(29)	—	—	—	—
Comprehensive income (loss) attributable to Tronox Limited	\$ (159)	\$ 377	\$ (19)	\$ (159)	\$ (233)	\$ (125)

GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

Nine Months Ended September 30, 2015

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
Net income (loss)	\$ (218)	\$ 474	\$ (55)	\$ (228)	\$ (404)	\$ (5)
Other comprehensive income (loss):						
Foreign currency translation adjustments	(187)	327	—	(138)	(189)	(187)
Pension and postretirement plans	3	(3)	—	3	3	—
Other comprehensive income (loss)	(184)	324	—	(135)	(186)	(187)
Total comprehensive income (loss)	(402)	798	(55)	(363)	(590)	(192)
Comprehensive income (loss) attributable to noncontrolling interest:						
Net income	10	10	—	—	—	—
Foreign currency translation adjustments	(49)	(49)	—	—	—	—

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Comprehensive income (loss) attributable to noncontrolling interest	(39)	(39)	—	—	—	—
Comprehensive income (loss) attributable to Tronox Limited	\$ (363)	\$ 837	\$ (55)	\$ (363)	\$ (590)	\$ (192)

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GUARANTOR CONDENSED CONSOLIDATING BALANCE SHEETS

As of December 31, 2015

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non- Guarantor Subsidiaries
ASSETS						
Cash and cash equivalents	\$ 229	\$ —	\$ —	\$ 1	\$ 165	\$ 63
Restricted cash	5	—	—	—	5	—
Accounts receivable, net	391	—	—	—	303	88
Inventories, net	630	(24)	—	—	439	215
Other current assets	46	(4,345)	657	1,473	1,149	1,112
Investment in subsidiaries	—	2,596	—	(3,274)	678	—
Property, plant and equipment, net	1,843	—	—	—	1,388	455
Mineral leaseholds, net	1,604	—	—	—	1,266	338
Intercompany loans receivable	—	(7,106)	688	5,936	76	406
Other long-term assets	279	—	4	—	258	17
Total assets	\$ 5,027	\$ (8,879)	\$ 1,349	\$ 4,136	\$ 5,727	\$ 2,694
LIABILITIES AND EQUITY						
Short-term debt	\$ 150	\$ —	\$ —	\$ —	\$ 150	\$ —
Other current liabilities	398	(4,345)	\$ 45	2,443	2,081	174
Long-term debt	2,910	—	1,470	—	—	1,440
Intercompany loans payable	—	(7,106)	5	694	6,338	69
Other long-term liabilities	459	—	—	1	267	191
Total liabilities	3,917	(11,451)	1,520	3,138	8,836	1,874
Total equity	1,110	2,572	(171)	998	(3,109)	820
Total liabilities and equity	\$ 5,027	\$ (8,879)	\$ 1,349	\$ 4,136	\$ 5,727	\$ 2,694

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GUARANTOR CONDENSED CONSOLIDATING STATEMENTS OF CASH FLOWS

Nine Months Ended September 30, 2015

(Unaudited)

(Millions of U.S. dollars)

	Consolidated	Eliminations	Tronox Finance LLC	Parent Company	Guarantor Subsidiaries	Non-Guarantor Subsidiaries
Cash Flows from Operating Activities:						
Net income (loss)	\$ (218)	\$ 474	\$ (55)	\$ (228)	\$ (404)	\$ (5)
Depreciation, depletion and amortization	222	—	—	—	170	52
Other	41	(474)	578	234	333	(630)
Cash provided by (used in) operating activities	45	—	523	6	99	(583)
Cash Flows from Investing Activities:						
Capital expenditures	(141)	—	—	—	(44)	(97)
Acquisition of business	(1,653)	—	—	—	(1,653)	—
Investment in subsidiaries	—	1,526	—	(1,526)	—	—
Return of capital from subsidiaries	—	(24)	—	24	—	—
Collections of intercompany loans	—	(724)	79	25	43	577
Issuance of Intercompany loans	—	1,386	(589)	(3)	(237)	(557)
Cash provided by (used in) investing activities	(1,794)	2,164	(510)	(1,480)	(1,891)	(77)
Cash Flows from Financing Activities:						
Repayments of debt	(13)	—	—	—	(2)	(11)
Repayments of intercompany loans	—	724	—	(102)	(601)	(21)
Proceeds from debt	750	—	—	—	150	600
Proceeds from intercompany loans	—	(1,386)	—	1,380	3	3
Contribution from parent	—	(1,526)	—	—	1,526	—
Return of capital to parent	—	24	—	—	(24)	—
Debt issuance costs	(15)	—	(13)	—	(2)	—
Dividends paid	(88)	—	—	(88)	—	—
Proceeds from the exercise of warrants and options	3	—	—	3	—	—
Cash provided by (used in) financing activities	637	(2,164)	(13)	1,193	1,050	571
Effects of exchange rate changes on cash and cash equivalents	(19)	—	—	—	—	(19)
Net increase (decrease) in cash and cash equivalents	(1,131)	—	—	(281)	(742)	(108)
Cash and cash equivalents at beginning of period	\$ 1,276	\$ —	\$ —	\$ 283	\$ 815	\$ 178

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Cash and cash equivalents at end of period	\$ 145	\$ —	\$ —	\$ 2	\$ 73	\$ 70
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Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion should be read in conjunction with Tronox Limited's unaudited condensed consolidated financial statements and the related notes included elsewhere in this Quarterly Report on Form 10-Q, as well as Management's Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report on Form 10-K for the year ended December 31, 2015. This discussion and other sections in this Quarterly Report on Form 10-Q contain forward-looking statements, within the meaning of the Private Securities Litigation Reform Act of 1995, that involve risks and uncertainties, and actual results could differ materially from those discussed in the forward-looking statements as a result of numerous factors. Forward-looking statements provide current expectations of future events based on certain assumptions and include any statement that does not directly relate to any historical or current fact. Forward-looking statements also can be identified by words such as "future," "anticipates," "believes," "estimates," "expects," "intends," "plans," "predicts," "will," "would," "could," "can," "may," and similar words.

This Management's Discussion and Analysis of Financial Condition and Results of Operations contains certain financial measures, in particular the presentation of earnings before interest, taxes, depreciation and amortization ("EBITDA") and Adjusted EBITDA, which are not presented in accordance with accounting principles generally accepted in the United States ("U.S. GAAP"). We are presenting these non-U.S. GAAP financial measures because we believe they provide us and readers of this Form 10-Q with additional insight into our operational performance relative to earlier periods and relative to our competitors. We do not intend for these non-U.S. GAAP financial measures to be a substitute for any U.S. GAAP financial information. Readers of these statements should use these non-U.S. GAAP financial measures only in conjunction with the comparable U.S. GAAP financial measures. A reconciliation of consolidated Net loss to EBITDA and Adjusted EBITDA, and a reconciliation of Net income (loss) from operations to Adjusted EBITDA by segment are also provided herein.

Executive Overview

We are a global leader in the production and marketing of titanium bearing mineral sands and titanium dioxide ("TiO₂") pigment, and the world's largest producer of natural soda ash.

On April 1, 2015, we completed the acquisition of 100% of the Alkali business ("Alkali") from FMC Corporation ("FMC") for an aggregate purchase price of \$1.65 billion in cash (the "Alkali Transaction"). Following the Alkali Transaction, we restructured our organization to reflect two integrated businesses, TiO₂ and Alkali, as our two operating and reportable segments.

TiO₂ Segment

We operate three TiO₂ pigment facilities at the following locations: Hamilton, Mississippi; Botlek, The Netherlands; and Kwinana, Western Australia, representing an aggregate annual TiO₂ production capacity of approximately 465,000 metric tons ("MT"). TiO₂ is used in a wide range of products due to its ability to impart whiteness, brightness, and opacity. TiO₂ is used extensively in the manufacture of paint and other coatings, plastics and paper, and in a wide range of other applications, including inks, fibers, rubber, food, cosmetics, and pharmaceuticals. Moreover, it is a critical component of everyday consumer applications due to its superior ability to cover or mask other materials effectively and efficiently relative to alternative white pigments and extenders. TiO₂ is considered to be a quality of life product, and some research indicates that consumption generally increases as disposable income increases. At present, it is our belief that there is no effective mineral substitute for TiO₂ because no other white pigment has the physical properties for achieving comparable opacity and brightness, or can be incorporated as cost effectively. We also operate three separate mining operations: KwaZulu-Natal ("KZN") Sands located in South Africa, Namakwa Sands located in Brand se Baai in the Western Cape of South Africa and Cooljarloo located in Western Australia.

Our TiO₂ segment includes the following:

Exploration, mining, and beneficiation of mineral sands deposits;

Production of titanium feedstock (including chloride slag, slag fines, rutile, synthetic rutile and leucoxene), pig iron, and zircon;

- Production and marketing of TiO₂; and

Electrolytic manganese dioxide manufacturing and marketing, which is primarily focused on advanced battery materials and specialty boron products.

Alkali Segment

Our Alkali business is the world's largest natural soda ash producer. We supply our soda ash to a variety of industries such as flat glass, container glass, detergent and chemical manufacturing. Soda ash, also known by its chemical name sodium carbonate (Na₂CO₃), is a highly valued raw material in the manufacture of glass due to its properties of lowering the melting point of silica in the batch. Soda ash is also valued by detergent manufacturers for its absorptive and water softening properties. We produce our products from trona, which we mine at two sites in the Green River Basin, Wyoming. The vast majority of the world's accessible trona reserves are located in the Green River Basin. According to historical production statistics, approximately one-quarter of global soda ash is produced from trona, with the remainder being produced synthetically, which requires chemical transformation of limestone and salt using a significantly higher amount of energy. Production of soda ash from trona is significantly less expensive than producing it synthetically. In addition, life-cycle analyses reveal that production from trona consumes less energy and produces less carbon dioxide and fewer undesirable by-products than synthetic production.

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Our Alkali segment includes the following:

- Dry mining of trona ore underground at our Westvaco facility;
- Secondary recovery of trona from previously dry mined areas underground at our Westvaco and Granger facilities through solution mining;
 - Refining of raw trona ore into soda ash and specialty sodium alkali products;
 - and
- Marketing, sale and distribution of alkali products.

Our Alkali segment currently produces approximately 4 million tons of soda ash and downstream specialty products annually. All mining and processing activities related to our products take place in our facilities located in the Green River Basin of Wyoming, United States.

Recent Developments

In April 2016, we officially commissioned our Fairbreeze mine in KZN Province, South Africa and began depreciating assets in service. The mine serves as a replacement source of feedstock production for our Hillendale mine, which ceased mining operations in December 2013. The Fairbreeze mine is part of our KZN Sands operations, which also include a concentration plant, a mineral separation plant, and a smelter complex with two furnaces. The Fairbreeze mine has current proved ore reserves of 139 million MTs. The annualized finished product capacity of the mine is included in the table below:

Capacity (metric tons per year)	KZN Sands
Rutile	25,000
Titanium Slag	220,000
Zircon	55,000
Pig Iron	121,000
Reserve life of mine	12+ Years

As previously announced, we continue to identify opportunities in our TiO₂ segment for cost improvements, greater efficiencies, and ways to make our workplace safer. To date, our operational excellence program has focused on sustainable and continuous cost improvement achieved through a broad based engagement of our employees to identify and implement cost improvement initiatives. This program currently has approximately 400 active initiatives. The operational excellence program will also achieve improved capability through better production and maintenance systems and disciplines – this is something we expect will enable our business to grow with the market with reduced capital requirements. The Hamilton, Mississippi facility has seen benefits in the third quarter of 2016 of approximately 3 to 5% capacity increase. The TiO₂ segment has also continued to leverage the integrated business establishing centers of excellence around several key technology areas common to our operating sites. The centers of excellence have enabled rapid identification and transfer of internal best practices through collaboration between sites with common technology platforms.

Our operating strategy continues to focus on matching TiO₂ pigment production to market demand while keeping finished pigment inventories at or below normal levels. During the third quarter, our average pigment capacity utilization rate was in excess of 100% with all lines at all pigment plants in operation.

The Chandala synthetic rutile kiln continued to operate at rates in the third quarter of 2016 similar to those in the second quarter. As previously announced, in 2015, we suspended the operation of two of our four furnaces in South Africa producing slag and pig iron and we continued to run at these reduced rates during the third quarter of 2016.

As a result of all these TiO₂ initiatives, we delivered during the first half of 2016 incremental cash cost reduction of \$43 million and approximately \$104 million of working capital reductions. See Note 2 of Notes to our unaudited condensed consolidated financial statements for additional information regarding restructuring expense.

During April 2016, Natron_x notified its customers of its intent to cease operations and end deliveries of product on June 30, 2016. On September 1, 2016, the Board of Directors of Natron_x approved the demolition of the Natron_x plant located at the Westvaco facility and other costs associated with dissolving the joint venture. During the three months ended September 30, 2016, a reserve of \$1 million of our share of expenses related to the termination of the Natron_x business, including severance and other exit activities, was recognized and included in "Selling, general and administrative expenses" in our unaudited Condensed Consolidated Statements of Operations and in "Accrued liabilities" in our unaudited Condensed Consolidated Balance Sheets as of September 30, 2016. We do not expect to incur any future expenses related to the termination of the Natron_x business. See Note 20 to our unaudited condensed consolidated financial statements for additional information.

Business Environment

The following discussion includes trends and factors that may affect future operating results:

In the TiO₂ segment, we continued to leverage our vertical integration to lower our cost and secure our share with our customers. The prolonged downturn in the market resulted in announced plant closures and reduced production levels across the industry during 2015, which had a positive impact on reducing finished pigment inventories. Pigment pricing was up in the third quarter of 2016 compared to the second quarter of 2016, as it was in the second quarter compared to the first quarter. Global demand for pigment continued to recover and we gained additional traction for the second consecutive quarter on the implementation of the announced global price increases.

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During the third quarter, we used 100% of our high grade titanium feedstock for our pigment production and continued to reduce our titanium slag inventories. Demand in the third-party market for high grade titanium feedstock remained soft due to excessive inventory across the industry. Though natural rutile sale volumes and selling prices remained below year-ago levels, both sales volumes and selling prices improved compared to the second quarter. As production at two of our South African furnaces remained suspended, pig iron production and sales volumes were significantly lower, though selling prices firmed relative to the second quarter. Zircon sales volumes and selling prices remained below year-ago levels and they declined modestly from the second quarter. We expect zircon sales volumes in 2016 to exceed those of 2015 by approximately 5% as we continue to ramp up production at our Fairbreeze mine to match market demand. The trend towards increased usage and demand for lower grade products continues as end users look to reduce cost.

In our Alkali segment, soda ash industry fundamentals remain strong with global demand expected to grow at about 2% compound annual growth rate (“CAGR”) through 2024. Emerging markets continue to drive much of this growth with per capita consumption of soda ash in emerging markets less than 50% of U.S. levels of 16 kg per person per year. The U.S. market for soda ash is supplied by five domestic competitors with balanced supply and demand fundamentals. These market conditions have historically resulted in prices rising on average over the past ten years, a trend projected to continue over the medium-long term. We anticipate that the pricing environment will remain stable through the rest of the year with evidence that Chinese soda ash exporters costs are stabilizing after a sharp decrease from the prior year. We believe the soda ash market, excluding China, continues to be balanced to tight from a supply-demand perspective. There may be some price pressure, particularly in Europe, beginning in 2017 as the industry anticipates additional volume from the announced expansion of soda ash capacity in Turkey. Nevertheless, we expect that the competitive cost position of natural soda ash relative to the higher cost synthetic process will persist and demand for natural soda ash will continue to exceed available supply.

We continue to be uniquely tax-advantaged by favorable tax loss carry forwards and other favorable tax positions. We believe these tax-advantaged factors create opportunities for our operations to benefit for years to come. See Note 3 to our unaudited condensed consolidated financial statements for additional information.

Consolidated Results of Operations

Three and Nine Months Ended September 30, 2016 compared to the Three and Nine Months Ended September 30, 2015

	Three Months Ended			Nine Months Ended		
	September 30,	September 30,	Variance	September 30,	September 30,	Variance
	2016	2015		2016	2015	
	(Millions of U.S. dollars)					
Net sales	\$533	\$575	\$ (42)	\$ 1,545	\$ 1,577	\$ (32)
Cost of goods sold	453	536	(83)	1,388	1,479	(91)
Gross profit	80	39	41	157	98	59
Selling, general and administrative expenses	(54)	(55)	1	(151)	(171)	20
Restructuring expense	(1)	(5)	4	(2)	(7)	5
Income (loss) from operations	25	(21)	46	4	(80)	84
Interest and debt expense, net	(46)	(45)	(1)	(138)	(131)	(7)
Gain on extinguishment of debt	—	—	—	4	—	4
Other income (expense), net	(14)	23	(37)	(23)	22	(45)
Loss before income taxes	(35)	(43)	8	(153)	(189)	36

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Income tax provision	(7)	(11)	4	(29)	(29)	—
Net loss	\$(42)	\$(54)	\$ 12	\$ (182)	\$ (218)	\$ 36

Net sales for the three months ended September 30, 2016 decreased by 7 % compared to the same period in 2015 due to lower selling prices and product mix of \$7 million and lower volumes of \$35 million.

Net sales for the nine months ended September 30, 2016 decreased by 2% compared to the same period in 2015 due to lower selling prices and product mix of \$135 million and lower volumes of \$87 million, partially offset by nine months of Alkali sales in 2016 compared to six months in 2015, representing an impact of \$190 million of net sales.

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During the three months ended September 30, 2016, cost of goods sold decreased by 15% compared to the same period in 2015, primarily due to a net decrease in volumes of \$40 million, lower production costs of \$30 million and a reduction of lower of cost or market reserves.

During the nine months ended September 30, 2016, cost of goods sold decreased by 6% compared to the same period in 2015, primarily due to lower volumes of \$86 million, favorable foreign currency translation of \$57 million, lower production costs of \$22 million and decrease in lower of cost or market reserves, partially offset by the inclusion of nine months of Alkali cost of sales in 2016 compared to six months in 2015, representing an impact of \$164 million of cost of goods sold.

Our gross profit during the three months ended September 30, 2016 was 15% of net sales compared to 7% in the same period in the prior year. The increase was primarily due to the impact of lower production costs of \$30 million, a reduction in lower of cost or market reserves and lower volumes of \$5 million, partially offset by lower selling prices and favorable product mix of \$7 million.

Our gross profit during the nine months ended September 30, 2016 was 10% of net sales compared to 6% in the same period in the prior year. The increase was primarily due to the impact of favorable foreign currency translation of \$56 million and the inclusion of Alkali results for nine months in the current year compared to six months in 2015 of \$26 million, lower production costs of \$22 million and a decrease in lower of cost or market reserves, partially offset by the impact of lower selling prices and product mix and volume of \$133 million.

Selling, general and administrative expenses decreased by 2% and 12% during the three and nine months ended September 30, 2016 compared to the same period in 2015, respectively. Selling, general and administrative expenses for the three months ended September 30, 2016 was relatively flat compared to the same period in the prior year. The decrease during the nine months ended September 30, 2016 compared to 2015 was mainly due to decreased professional fees of \$29 million related to the Alkali Transaction in 2015 and decreased other professional fees of \$1 million, offset by a reversal of an Australian stamp tax accrual of \$11 million related to the 2012 acquisition of the Exxaro Sands business.

Restructuring expense for the three and nine months ended September 30, 2016 decreased by \$4 million and \$5 million, respectively compared to the same periods in 2015. See Note 2 of Notes to unaudited condensed consolidated financial statements.

Interest and debt expense for the three months ended September 30, 2016 primarily consisted of interest expense on our \$1.5 billion secured term loan (the "Term Loan") of \$17 million, interest expense on our \$900 million aggregate principal amounts of Senior Notes at par value (the "Senior Notes due 2020") of \$14 million and interest expense on our \$600 million aggregate principal amount of 7.5% Senior Notes due 2022 (the "Senior Notes due 2022") of \$11 million. Interest and debt expense during the three months ended September 30, 2015 was primarily comprised of interest expense on the Term Loan of \$16 million, interest expense the Senior Notes due 2020 of \$14 million, interest expense on the Senior Notes due 2022 of \$11 million. Interest on the Term Loan, Senior Notes due 2020 and Senior Notes due 2022 was consistent with that of the three months ended September 30, 2015. See Note 11 to unaudited condensed consolidated financial statements.

Interest and debt expense during the nine months ended September 30, 2016 was primarily comprised of interest expense on the Term Loan of \$50 million, interest expense on the Senior Notes due 2020 of \$43 million and interest expense on the Senior Notes due 2022 of \$33 million. Interest and debt expense during the nine months ended September 30, 2015 is primarily comprised of interest expense on the Term Loan of \$47 million, interest expense on the Senior Notes due 2020 of \$43 million, interest expense on the Senior Notes due 2022 of \$24 million and fees on the Bridge Facility of \$8 million. Interest on the Senior Notes due 2022 increased by \$9 million due to a full nine month's interest expense in 2016 compared to the partial period interest expense in 2015. See Note 11 to unaudited

condensed consolidated financial statements.

Gain on debt extinguishment of \$4 million represents a repurchase of \$16 million of face value of our Senior Notes Due 2022 at a price of 76% of par, resulting in a gain of approximately \$3 million and a repurchase of \$4 million of face value of our Senior Notes Due 2020 at a price of 77% of par, resulting in a gain of approximately \$1 million.

Other income, net during the three months ended September 30, 2016 primarily consisted of a net realized and unrealized foreign currency loss of \$15 million, offset by interest income of \$1 million. Other income, net during the three months ended September 30, 2015 primarily consisted of a net realized and unrealized foreign currency gain of \$22 million and interest income of \$1 million.

Other income, net during the nine months ended September 30, 2016 primarily consisted of a net realized and unrealized foreign currency loss of \$28 million, offset by a \$3 million gain on the sale of inventory produced during the commissioning phase of our Fairbreeze mine and interest income of \$2 million. Other income, net during the nine months ended September 30, 2015 primarily consisted of a net realized and unrealized foreign currency gain of \$17 million and interest income of \$5 million.

The effective tax rate for the three and nine months ended September 30, 2016 and 2015 differs from the Australian statutory rate of 30% primarily due to valuation allowances, income in foreign jurisdictions taxed at rates lower than 30%, and withholding tax accruals on interest income.

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Operations Review of Segment Revenue and Profit

U.S. GAAP has standards for reporting information about operating segments. Operating segments are defined as components of an enterprise about which separate financial information is available that is evaluated by the chief operating decision maker in determining how to allocate resources and in assessing performance.

We currently operate our business in two operating and reportable segments, TiO₂ and Alkali. We evaluate reportable segment performance based on segment operating profit (loss), which represents the results of segment operations before unallocated costs, such as general corporate expenses not identified to a specific segment, interest expense, other income (expense), net and income tax expense (benefit). Sales between segments are generally priced at market. Any resulting profit remaining in the inventory of the acquiring segment is eliminated in consolidation. See Note 21 of Notes to unaudited condensed consolidated financial statements for additional information.

Net Sales

Net sales by segments were as follows:

	Three Months Ended September 30,			Nine Months Ended September 30,		
	2016	2015	Variance	2016	2015	Variance
	(Millions of U.S. dollars)					
TiO ₂ segment	\$ 339	\$ 380	\$ (41)	\$ 957	\$ 1,174	\$ (217)
Alkali segment	194	195	(1)	588	403	185
Net Sales	\$ 533	\$ 575	\$ (42)	\$ 1,545	\$ 1,577	\$ (32)

TiO₂ segment

TiO₂ segment net sales during the three months ended September 30, 2016 decreased by 11% compared to the same periods in 2015 primarily due to lower volumes of \$37 million and lower selling prices and product mix of \$4 million. TiO₂ segment net sales during the nine months ended September 30, 2016 decreased by 18% compared to the same periods in 2015 primarily due to the impact of lower selling prices and product mix of \$129 million and lower volumes of \$88 million.

Selling prices for the three months ended September 30, 2016 were higher for pigment products in Asia-Pacific and Europe, Middle East and Africa, flat in Latin America and lower in North America compared to the same periods in 2015. Volumes were lower for zircon, rutile and pigment products in Latin America and Europe. Currency impacts are primarily related to the weakening of the Euro versus the U.S. Dollar.

Selling prices for the nine months ended September 30, 2016 were lower for pigment products in all regions and across most product lines compared to the same periods in 2015. Volumes were lower for zircon and pigment products in Latin America and Europe. Currency impacts are primarily related to the weakening of the Euro versus the U.S. Dollar.

Alkali segment

Net sales in our Alkali segment for the three months ended September 30, 2016 were relatively flat compared to the same periods in 2015 primarily due to lower selling prices of \$3 million realized from ANSAC driven by lower pricing from Chinese exporters resulting from their decreased costs of production, offset by higher volumes of \$2 million. Net sales for the nine months ended September 30, 2016 increased by 46% compared to the same periods in 2015 primarily due to a full nine month's net sales in 2016 compared to only six month's sales during the same period

in 2015, representing an impact of \$190 million, offset by lower selling prices of \$5 million.

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Income (loss) from Operations

Income (loss) from operations by segments was as follows:

	Three Months Ended			Nine Months Ended		
	September 30, 2016	2015	Variance	September 30, 2016	2015	Variance
	(Millions of U.S. dollars)					
TiO ₂ segment	\$18	\$(26)	\$ 44	\$ (12)	\$ (58)	\$ 46
Alkali segment	23	21	2	54	46	8
Corporate	(16)	(16)	—	(38)	(68)	30
Income (loss) from operations	25	(21)	\$ 46	4	(80)	\$ 84
Interest and debt expense, net	(46)	(45)		(138)	(131)	
Gain on extinguishment of debt	—	—		4	—	
Other income (expense), net	(14)	23		(23)	22	
Loss before income taxes	(35)	(43)		(153)	(189)	
Income tax provision	(7)	(11)		(29)	(29)	