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Vulcan Materials CO
Form 10-Q
May 03, 2019
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 March 31, 2019

OR

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

For the transition period from _____ to _____

Commission File Number 001-33841

VULCAN MATERIALS COMPANY

(Exact name of registrant as specified in its charter)

| | |
|--|--------------------------------------|
| New Jersey | 20-8579133 |
| (State or other jurisdiction of incorporation) | (I.R.S. Employer Identification No.) |

1200 Urban Center Drive, Birmingham, 35242
Alabama (zip code)
(Address of principal executive offices)

(205) 298-3000
(Registrant's telephone number including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the

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Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

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

| | | |
|-------------------------|-------------------|---------------------------|
| Large accelerated filer | Accelerated filer | Smaller reporting company |
| Non-accelerated filer | | Emerging growth company |

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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

Securities registered pursuant to Section 12(b) of the Securities Exchange Act of 1934:

| Title of each class | Trading Symbol(s) | Name of each exchange on which registered |
|-----------------------------|-------------------|---|
| Common Stock, \$1 par value | VMC | New York Stock Exchange |

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date:

| Class | Shares outstanding at April 30, 2019 |
|-----------------------------|--------------------------------------|
| Common Stock, \$1 Par Value | 132,092,119 |

VULCAN MATERIALS COMPANY

FORM 10-Q

QUARTER ENDED MARCH 31, 2019

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Unless otherwise stated or the context otherwise requires, references in this report to “Vulcan,” the “Company,” “we,” “our,” or “us” refer to Vulcan Materials Company and its consolidated subsidiaries.

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part I financial information

ITEM 1

FINANCIAL STATEMENTS

VULCAN MATERIALS COMPANY AND SUBSIDIARY COMPANIES

CONDENSED CONSOLIDATED BALANCE SHEETS

| Unaudited in thousands | March 31 2019 | December 31 2018 | March 31 2018 |
|---|------------------|---------------------|------------------|
| Assets | | | |
| Cash and cash equivalents | \$ 30,838 | \$ 40,037 | \$ 38,141 |
| Restricted cash | 270 | 4,367 | 8,373 |
| Accounts and notes receivable | | | |
| Accounts and notes receivable, gross | 563,084 | 542,868 | 492,103 |
| Allowance for doubtful accounts | (2,554) | (2,090) | (2,667) |
| Accounts and notes receivable, net | 560,530 | 540,778 | 489,436 |
| Inventories | | | |
| Finished products | 369,743 | 372,604 | 340,666 |
| Raw materials | 27,951 | 27,942 | 29,393 |
| Products in process | 4,976 | 3,064 | 1,303 |
| Operating supplies and other Inventories | 26,727 | 25,720 | 28,392 |
| | 429,397 | 429,330 | 399,754 |
| Other current assets | 62,816 | 64,633 | 75,495 |
| Total current assets | 1,083,851 | 1,079,145 | 1,011,199 |
| Investments and long-term receivables | 50,952 | 44,615 | 35,056 |
| Property, plant & equipment | | | |
| Property, plant & equipment, cost | 8,559,549 | 8,457,619 | 8,116,439 |
| Allowances for depreciation, depletion & amortization | (4,284,211) | (4,220,312) | (4,090,574) |
| Property, plant & equipment, net | 4,275,338 | 4,237,307 | 4,025,865 |
| Operating lease right-of-use assets, net | 426,381 | 0 | 0 |
| Goodwill | 3,161,842 | 3,165,396 | 3,130,161 |
| Other intangible assets, net | 1,085,398 | 1,095,378 | 1,060,831 |
| Other noncurrent assets | 213,090 | 210,289 | 190,099 |
| Total assets | \$ 10,296,852 | \$ 9,832,130 | \$ 9,453,211 |
| Liabilities | | | |
| Current maturities of long-term debt | 24 | 23 | 22 |
| Short-term debt | 178,500 | 133,000 | 200,000 |
| Trade payables and accruals | 248,119 | 216,473 | 188,163 |

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| | | | |
|--|---------------|--------------|--------------|
| Other current liabilities | 232,964 | 253,054 | 195,122 |
| Total current liabilities | 659,607 | 602,550 | 583,307 |
| Long-term debt | 2,780,589 | 2,779,357 | 2,775,687 |
| Deferred income taxes, net | 568,229 | 567,283 | 479,430 |
| Deferred revenue | 184,744 | 186,397 | 190,731 |
| Operating lease liabilities | 403,426 | 0 | 0 |
| Other noncurrent liabilities | 483,048 | 493,640 | 510,846 |
| Total liabilities | \$ 5,079,643 | \$ 4,629,227 | \$ 4,540,001 |
| Other commitments and contingencies (Note 8) | | | |
| Equity | | | |
| Common stock, \$1 par value, Authorized 480,000 shares, Outstanding 132,069, 131,762 and 132,290 shares, respectively | 132,069 | 131,762 | 132,290 |
| Capital in excess of par value | 2,789,864 | 2,798,486 | 2,787,848 |
| Retained earnings | 2,467,201 | 2,444,870 | 2,138,885 |
| Accumulated other comprehensive loss | (171,925) | (172,215) | (145,813) |
| Total equity | \$ 5,217,209 | \$ 5,202,903 | \$ 4,913,210 |
| Total liabilities and equity | \$ 10,296,852 | \$ 9,832,130 | \$ 9,453,211 |

The accompanying Notes to the Condensed Consolidated Financial Statements are an integral part of these statements.

VULCAN MATERIALS COMPANY AND SUBSIDIARY COMPANIES

CONDENSED CONSOLIDATED STATEMENTS OF
COMPREHENSIVE INCOME

| Unaudited in thousands, except per share data | Three Months Ended March 31 | |
|--|--------------------------------|------------|
| | 2019 | 2018 |
| Total revenues | \$ 996,511 | \$ 854,474 |
| Cost of revenues | 804,836 | 695,140 |
| Gross profit | 191,675 | 159,334 |
| Selling, administrative and general expenses | 90,268 | 78,340 |
| Gain on sale of property, plant & equipment and businesses | 7,297 | 4,164 |
| Other operating expense, net | (4,271) | (3,963) |
| Operating earnings | 104,433 | 81,195 |
| Other nonoperating income, net | 3,129 | 5,071 |
| Interest expense, net | 32,934 | 37,774 |
| Earnings from continuing operations before income taxes | 74,628 | 48,492 |
| Income tax expense (benefit) | 10,693 | (4,903) |
| Earnings from continuing operations | 63,935 | 53,395 |
| Loss on discontinued operations, net of tax | (636) | (416) |
| Net earnings | \$ 63,299 | \$ 52,979 |
| Other comprehensive income, net of tax | | |
| Deferred gain on interest rate derivative | 0 | 2,496 |
| Amortization of prior interest rate derivative loss | 55 | 66 |
| Amortization of actuarial loss and prior service cost for benefit plans | 235 | 1,091 |
| Other comprehensive income | 290 | 3,653 |
| Comprehensive income | \$ 63,589 | \$ 56,632 |
| Basic earnings (loss) per share | | |
| Continuing operations | \$ 0.48 | \$ 0.40 |
| Discontinued operations | 0.00 | 0.00 |
| Net earnings | \$ 0.48 | \$ 0.40 |
| Diluted earnings (loss) per share | | |
| Continuing operations | \$ 0.48 | \$ 0.40 |
| Discontinued operations | 0.00 | (0.01) |
| Net earnings | \$ 0.48 | \$ 0.39 |
| Weighted-average common shares outstanding | | |
| Basic | 132,043 | 132,690 |
| Assuming dilution | 133,054 | 134,359 |
| Depreciation, depletion, accretion and amortization | \$ 89,181 | \$ 81,439 |
| Effective tax rate from continuing operations | 14.3% | -10.1% |

The accompanying Notes to the Condensed Consolidated Financial Statements are an integral part of these statements.

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VULCAN MATERIALS COMPANY AND SUBSIDIARY COMPANIES

CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

| Unaudited in thousands | Three Months Ended March 31 | |
|--|--------------------------------|--------------|
| | 2019 | 2018 |
| Operating Activities | | |
| Net earnings | \$ 63,299 | \$ 52,979 |
| Adjustments to reconcile net earnings to net cash provided by operating activities | | |
| Depreciation, depletion, accretion and amortization | 89,181 | 81,439 |
| Net gain on sale of property, plant & equipment and businesses | (7,297) | (4,164) |
| Contributions to pension plans | (2,320) | (102,443) |
| Share-based compensation expense | 5,724 | 6,794 |
| Deferred tax expense (benefit) | 774 | 7,968 |
| Cost of debt purchase | 0 | 6,922 |
| Changes in assets and liabilities before initial effects of business acquisitions and dispositions | (45,765) | 39,832 |
| Other, net | 12,568 | 3,641 |
| Net cash provided by operating activities | \$ 116,164 | \$ 92,968 |
| Investing Activities | | |
| Purchases of property, plant & equipment | (122,019) | (128,688) |
| Proceeds from sale of property, plant & equipment | 6,512 | 1,701 |
| Proceeds from sale of businesses | 1,744 | 11,256 |
| Payment for businesses acquired, net of acquired cash | 1,122 | (76,259) |
| Other, net | (7,237) | (34) |
| Net cash used for investing activities | \$ (119,878) | \$ (192,024) |
| Financing Activities | | |
| Proceeds from short-term debt | 196,200 | 252,000 |
| Payment of short-term debt | (150,700) | (52,000) |
| Payment of current maturities and long-term debt | (6) | (892,038) |
| Proceeds from issuance of long-term debt | 0 | 850,000 |
| Debt issuance and exchange costs | 0 | (45,513) |
| Settlements of interest rate derivatives | 0 | 3,378 |
| Purchases of common stock | 0 | (55,568) |
| Dividends paid | (40,939) | (37,176) |
| Share-based compensation, shares withheld for taxes | (14,137) | (24,159) |
| Net cash used for financing activities | \$ (9,582) | \$ (1,076) |
| Net decrease in cash and cash equivalents and restricted cash | (13,296) | (100,132) |
| Cash and cash equivalents and restricted cash at beginning of year | 44,404 | 146,646 |
| Cash and cash equivalents and restricted cash at end of period | \$ 31,108 | \$ 46,514 |

The accompanying Notes to the Condensed Consolidated Financial Statements are an integral part of the statements.

notes to condensed consolidated financial statements

Note 1: summary of significant accounting policies

NATURE OF OPERATIONS

Vulcan Materials Company (the “Company,” “Vulcan,” “we,” “our”), a New Jersey corporation, is the nation's largest supplier of construction aggregates (primarily crushed stone, sand and gravel) and a major producer of asphalt mix and ready-mixed concrete.

We operate primarily in the United States and our principal product — aggregates — is used in virtually all types of public and private construction projects and in the production of asphalt mix and ready-mixed concrete. We serve markets in twenty states, Washington D.C., and the local markets surrounding our operations in Mexico and the Bahamas. Our primary focus is serving metropolitan markets in the United States that are expected to experience the most significant growth in population, households and employment. These three demographic factors are significant drivers of demand for aggregates. While aggregates is our focus and primary business, we produce and sell asphalt mix and/or ready-mixed concrete in our Alabama, mid-Atlantic, Southwestern, Tennessee and Western markets.

BASIS OF PRESENTATION

Our accompanying unaudited condensed consolidated financial statements were prepared in compliance with the instructions to Form 10-Q and Article 10 of Regulation S-X and thus do not include all of the information and footnotes required by accounting principles generally accepted in the United States of America (GAAP) for complete financial statements. We prepared the accompanying condensed consolidated financial statements on the same basis as our annual financial statements, except for the adoption of new accounting standards as described in Note 17. Our Condensed Consolidated Balance Sheet as of December 31, 2018 was derived from the audited financial statement, but it does not include all disclosures required by GAAP. In the opinion of our management, the statements reflect all adjustments, including those of a normal recurring nature, necessary to present fairly the results of the reported interim periods. Operating results for the three month period ended March 31, 2019 are not necessarily indicative of the results that may be expected for the year ending December 31, 2019. For further information, refer to the consolidated financial statements and footnotes included in our most recent Annual Report on Form 10-K.

Due to the 2005 sale of our Chemicals business as described within this Note under the caption Discontinued Operations, the results of the Chemicals business are presented as discontinued operations in the accompanying Condensed Consolidated Statements of Comprehensive Income.

RECLASSIFICATIONS

Certain items previously reported in specific financial statement captions have been reclassified to conform to the 2019 presentation.

RESTRICTED CASH

Restricted cash consists of cash proceeds from the sale of property held in escrow for the acquisition of replacement property under like-kind exchange agreements and cash reserved by other contractual agreements (such as asset purchase agreements) for a specified purpose and therefore is not available for use for other purposes. The escrow accounts are administered by an intermediary. Cash restricted pursuant to like-kind exchange agreements remains restricted for a maximum of 180 days from the date of the property sale pending the acquisition of replacement property. Restricted cash is included with cash and cash equivalents in the accompanying Condensed Consolidated Statements of Cash Flows.

LEASES

Beginning in 2019 (see ASU 2016-02, "Leases," as presented in Note 17), our nonmineral leases are recognized on the balance sheet as right-of-use (ROU) assets and lease liabilities. Mineral leases continue to be exempt from balance sheet recognition.

ROU assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. ROU assets and lease liabilities are recognized at the lease commencement date based on the present value of lease payments over the lease term. As most of our leases do not provide an implicit rate, we use our incremental borrowing rate based on the information available at the commencement date in determining

the present value of lease payments. ROU assets are adjusted for any prepaid lease payments and lease incentives. Our lease terms may include options to extend or terminate the lease when it is reasonably certain that we will exercise that option.

We elected the following practical expedients: (1) the practical expedient package which permits us to not reassess our prior conclusions about lease identification, lease classification, and initial direct costs; (2) to not separate the lease components from the non-lease components for all leases; (3) to apply a portfolio approach to our railcar and barge leases; (4) to not recognize ROU assets and lease liabilities for all pre-existing land easements not previously accounted for as leases; and (5) to not recognize ROU assets or lease liabilities for our short-term leases, including existing short-term leases of those assets in transition.

For additional information about leases see Note 2.

DISCONTINUED OPERATIONS

In 2005, we sold substantially all the assets of our Chemicals business to Basic Chemicals, a subsidiary of Occidental Chemical Corporation. The financial results of the Chemicals business are classified as discontinued operations in the accompanying Condensed Consolidated Statements of Comprehensive Income for all periods presented. Results from discontinued operations are as follows:

| in thousands | Three Months Ended | |
|--|--------------------|----------|
| | March 31 | |
| | 2019 | 2018 |
| Discontinued Operations | | |
| Pretax loss | \$ (638) | \$ (566) |
| Income tax benefit | 2 | 150 |
| Loss on discontinued operations, net of tax | \$ (636) | \$ (416) |

Our discontinued operations include charges related to general and product liability costs, including legal defense costs, and environmental remediation costs associated with our former Chemicals business (including certain matters as discussed in Note 8). There were no revenues from discontinued operations for the periods presented.

EARNINGS PER SHARE (EPS)

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Earnings per share are computed by dividing net earnings by the weighted-average common shares outstanding (basic EPS) or weighted-average common shares outstanding assuming dilution (diluted EPS), as set forth below:

| in thousands | Three Months Ended | |
|---|--------------------|---------|
| | March 31 | |
| | 2019 | 2018 |
| Weighted-average common shares outstanding | 132,043 | 132,690 |
| Dilutive effect of | | |
| Stock-Only Stock Appreciation Rights | 742 | 1,132 |
| Other stock compensation plans | 269 | 537 |
| Weighted-average common shares outstanding, assuming dilution | 133,054 | 134,359 |

All dilutive common stock equivalents are reflected in our earnings per share calculations. In periods of loss, shares that otherwise would have been included in our diluted weighted-average common shares outstanding computation would be excluded.

Antidilutive common stock equivalents are not included in our earnings per share calculations. The number of antidilutive common stock equivalents for which the exercise price exceeds the weighted-average market price is as follows:

| in thousands | Three Months | |
|---------------------------------------|--------------|------|
| | Ended | |
| | March 31 | |
| | 2019 | 2018 |
| Antidilutive common stock equivalents | 220 | 157 |

Note 2: Leases

Operating lease-related assets and liabilities (we do not have any material finance leases) reflected on our March 31, 2019 balance sheet and the weighted-average lease term and discount rate are as follows:

| in thousands | Classification on the Balance Sheet | March 31 2019 |
|---|--|------------------|
| Assets | | |
| Operating lease right-of-use assets | | \$ 434,970 |
| Accumulated amortization | | (8,589) |
| Total lease assets | Operating lease right-of-use assets, net | \$ 426,381 |
| Liabilities | | |
| Current | | |
| Operating | Other current liabilities | \$ 31,255 |
| Noncurrent | | |
| Operating | Operating lease liabilities | 403,426 |
| Total lease liabilities | | \$ 434,681 |
| Lease Term and Discount Rate | | |
| Weighted-average remaining lease term (years) | | |
| Operating leases | | 10.3 |
| Weighted-average discount rate | | |
| Operating leases | | 4.4% |

Our portfolio of nonmineral leases is composed almost entirely of operating leases for real estate (including office buildings, aggregates sales yards, and concrete and asphalt sites) and equipment (including railcars and rail track, barges, office equipment and plant equipment).

Our building leases have remaining noncancelable periods of 1 - 30 years, and lease terms (including options to extend) of 1 - 30 years. Key factors in determining the certainty of lease renewals include the location of the building, the value of leasehold improvements and the cost to relocate. Rental payments for certain of our building leases are periodically adjusted for inflation and this variable component is recognized as expense when incurred. Many of our building leases contain common area maintenance charges which we include in the calculation of our lease liability (the lease consideration is not allocated between the lease and non-lease components).

Our aggregates sales yard leases have remaining noncancelable periods of 0 - 13 years, and lease terms of 2 - 80 years. The key factor in determining the certainty of lease renewals is the financial impact of extending the lease, including the reserve life of the sourcing aggregates quarry. Certain aggregates sales yard lease agreements include rental payments based on a percentage of sales over contractual levels or the number of shipments received into the sales yard. Variable payments for these sales yards comprise a majority of the overall variable lease cost presented in the table below.

Our concrete and asphalt site leases have remaining noncancelable periods of 0 - 97 years, and lease terms of 1 - 97 years. The key factor in determining the certainty of lease renewals is the financial impact of extending the lease, including the reserve life of the sourcing aggregates quarry. Rental payments are generally fixed for our concrete and asphalt sites.

Our rail (car and track) leases have remaining noncancelable periods of 0 - 7 years, and lease terms of 2 - 76 years. Key factors in determining the certainty of lease renewals include the market rental rate for comparable assets and, in some cases, the cost incurred to restore the asset. Rental payments are fixed for our rail leases. The majority of our rail leases contain substitution rights that allow the supplier to replace damaged equipment. Because these rights are generally limited to either replacing railcars or moving our placement on rail track for purposes of repair or maintenance, we do not consider these substitution rights to be substantive and have recorded a lease liability and ROU asset for all leased rail.

Our barge leases have remaining noncancelable periods of 2 - 3 years, and lease terms (including options to extend) of 10 - 16 years. Key factors in determining the certainty of lease renewals include the market rental rate for comparable assets and, in some cases, the cost incurred to restore the asset. Rental payments are fixed. Like our rail leases, our barge leases contain non-substantive substitution rights that are limited to replacing barges in need of repair or maintenance.

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Office and plant equipment leases have remaining noncancelable periods of 0 - 4 years, and lease terms of 0 - 4 years. The key factor in determining the certainty of lease renewals is the market rental rate for comparable assets. Rental payments are generally fixed for our equipment leases with terms greater than 1 year. The significant majority of our short-term lease cost presented in the table below is derived from office and plant equipment leases with terms of 1 year or less.

Our lease agreements do not contain material residual value guarantees, material restrictive covenants or material termination options.

Lease expense for operating leases is recognized on a straight-line basis over the lease term. The components of nonmineral operating lease expense are as follows:

| | Three Months Ended March 31 |
|------------|-----------------------------------|
| in | |
| thousands | 2019 |
| Lease cost | |
| Operating | |
| lease cost | \$ 14,127 |
| Short-term | |
| lease cost | |
| 1 | 8,700 |
| Variable | |
| lease cost | 3,068 |
| Sublease | |
| income | (610) |
| Total | |
| lease cost | \$ 25,285 |

1 We have elected to recognize the cost of leases with an initial term of one month or less within our short-term lease cost.

Total nonmineral operating lease expense for the prior year's three months ended March 31, 2018 was \$24,352,000.

Cash paid for operating leases was \$13,333,000 for the three months ended March 31, 2019 and was reflected as a reduction to operating cash flows.

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Maturity analysis on an undiscounted basis of our nonmineral lease liabilities as of March 31, 2019 is as follows:

| | |
|---------------|------------|
| in thousands | Operating |
| Maturity of | Leases |
| Lease | |
| Liabilities | |
| 2019 | |
| (remainder) | \$ 39,281 |
| 2020 | 49,300 |
| 2021 | 45,607 |
| 2022 | 40,680 |
| 2023 | 36,143 |
| Thereafter | 605,516 |
| Total | |
| minimum | |
| lease | |
| payments | \$ 816,527 |
| Less: Lease | |
| payments | |
| representing | |
| interest | 381,846 |
| Present value | |
| of future | |
| minimum | |
| lease | |
| payments | \$ 434,681 |
| Less: Current | |
| obligations | |
| under leases | 31,255 |
| Long-term | |
| lease | |
| obligations | \$ 403,426 |

Future minimum operating lease payments under leases with initial or remaining noncancelable lease terms in excess of one year, exclusive of mineral leases, as of December 31, 2018 were payable as follows:

| | |
|---|-----------|
| in thousands | |
| Future Minimum Operating Lease Payments | |
| 2019 | \$ 47,979 |

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| | |
|------------|------------|
| 2020 | 43,540 |
| 2021 | 35,732 |
| 2022 | 27,463 |
| 2023 | 19,707 |
| Thereafter | 195,104 |
| Total | \$ 369,525 |

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Note 3: Income Taxes

Our estimated annual effective tax rate (EAETR) is based on full-year expectations of pretax earnings, statutory tax rates, permanent differences between book and tax accounting such as percentage depletion, and tax planning alternatives available in the various jurisdictions in which we operate. For interim financial reporting, we calculate our quarterly income tax provision in accordance with the EAETR. Each quarter, we update our EAETR based on our revised full-year expectation of pretax earnings and calculate the income tax provision so that the year-to-date income tax provision reflects the EAETR. Significant judgment is required in determining our EAETR.

In the first quarter of 2019, we recorded income tax expense from continuing operations of \$10,693,000 compared to an income tax benefit from continuing operations of \$4,903,000 in the first quarter of 2018. The increase in tax expense is related to an increase in earnings along with a decrease in share-based compensation excess tax benefits.

We recognize deferred tax assets and liabilities (which reflect our best assessment of the future taxes we will pay) based on the differences between the book basis and tax basis of assets and liabilities. Deferred tax assets represent items to be used as a tax deduction or credit in future tax returns while deferred tax liabilities represent items that will result in additional tax in future tax returns.

Each quarter we analyze the likelihood that our deferred tax assets will be realized. A valuation allowance is recorded if, based on the weight of all available positive and negative evidence, it is more likely than not (a likelihood of more than 50%) that some portion, or all, of a deferred tax asset will not be realized. At December 31, 2019, we project state net operating loss carryforward deferred tax assets of \$65,787,000 (\$63,603,000 relates to Alabama), against which we project to have a valuation allowance of \$29,678,000 (\$29,183,000 relates to Alabama). The Alabama net operating loss carryforward, if not utilized, would expire in years 2023 – 2032.

We recognize a tax benefit associated with a tax position when, in our judgment, it is more likely than not that the position will be sustained based upon the technical merits of the position. For a tax position that meets the more likely than not recognition threshold, we measure the income tax benefit as the largest amount that we judge to have a greater than 50% likelihood of being realized. A liability is established for the unrecognized portion of any tax benefit. Our liability for unrecognized tax benefits is adjusted periodically due to changing circumstances, such as the progress of tax audits, case law developments and new or emerging legislation.

A summary of our deferred tax assets is included in Note 9 “Income Taxes” in our Annual Report on Form 10-K for the year ended December 31, 2018.

Note 4: revenues

Revenues are measured as the amount of consideration we expect to receive in exchange for transferring goods or providing services. Sales and other taxes we collect are excluded from revenues. Costs to obtain and fulfill contracts (primarily asphalt construction paving contracts) are immaterial and are expensed as incurred when the expected amortization period is one year or less.

Total revenues are primarily derived from our product sales of aggregates (crushed stone, sand and gravel, sand and other aggregates), asphalt mix and ready-mixed concrete, and include freight & delivery costs that we pass along to our customers to deliver these products. We also generate service revenues from our asphalt construction paving business and service revenues related to our aggregates business, such as landfill tipping fees. Our total service revenues were \$34,515,000 and \$18,639,000 for the three months ended March 31, 2019 and 2018, respectively.

Our products typically are sold to private industry and not directly to governmental entities. Although approximately 45% to 55% of our aggregates shipments have historically been used in publicly funded construction, such as highways, airports and government buildings, relatively insignificant sales are made directly to federal, state, county or municipal governments/agencies. Therefore, although reductions in state and federal funding can curtail publicly-funded construction, our aggregates business is not directly subject to renegotiation of profits or termination of contracts with state or federal governments.

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Our segment total revenues by geographic market for the three month periods ended March 31, 2019 and 2018 are disaggregated as follows:

| Three Months Ended March 31, 2019 | | | | | |
|---------------------------------------|------------|------------|-----------|----------|--------------|
| in thousands | Aggregates | Asphalt | Concrete | Calcium | Total |
| Total Revenues by Geographic Market 1 | | | | | |
| East | \$ 224,902 | \$ 18,216 | \$ 54,716 | \$ 0 | \$ 297,834 |
| Gulf Coast | 496,633 | 37,053 | 16,505 | 1,951 | 552,142 |
| West | 113,430 | 76,821 | 12,416 | 0 | 202,667 |
| Segment sales | \$ 834,965 | \$ 132,090 | \$ 83,637 | \$ 1,951 | \$ 1,052,643 |
| Intersegment sales | (56,132) | 0 | 0 | 0 | (56,132) |
| Total revenues | \$ 778,833 | \$ 132,090 | \$ 83,637 | \$ 1,951 | \$ 996,511 |

| Three Months Ended March 31, 2018 | | | | | |
|---------------------------------------|------------|------------|------------|----------|------------|
| in thousands | Aggregates | Asphalt | Concrete | Calcium | Total |
| Total Revenues by Geographic Market 1 | | | | | |
| East | \$ 193,848 | \$ 11,729 | \$ 61,571 | \$ 0 | \$ 267,148 |
| Gulf Coast | 383,941 | 14,644 | 25,199 | 1,942 | 425,726 |
| West | 121,868 | 77,462 | 14,192 | 0 | 213,522 |
| Segment sales | \$ 699,657 | \$ 103,835 | \$ 100,962 | \$ 1,942 | \$ 906,396 |
| Intersegment sales | (51,922) | 0 | 0 | 0 | (51,922) |
| Total revenues | \$ 647,735 | \$ 103,835 | \$ 100,962 | \$ 1,942 | \$ 854,474 |

1 The geographic markets are defined by states/countries as follows:

East market — Arkansas, Delaware, Illinois, Kentucky, Maryland, North Carolina, Pennsylvania, Tennessee, Virginia, and Washington D.C.

Gulf Coast market — Alabama, Florida, Georgia, Louisiana, Mexico, Mississippi, Oklahoma, South Carolina, Texas and the Bahamas

West market — Arizona, California and New Mexico

PRODUCT REVENUES

Revenue is recognized when obligations under the terms of a contract with our customer are satisfied; generally this occurs at a point in time when our aggregates, asphalt mix and ready-mixed concrete are shipped/delivered and control passes to the customer. Revenue for our products is recorded at the fixed invoice amount and is due by the 15th day of the following month — we do not offer discounts for early payment. Freight & delivery generally represents pass-through transportation we incur (including our administrative costs) and pay to third-party carriers to deliver our products to customers and are accounted for as a fulfillment activity. Likewise, the costs related to freight & delivery are included in cost of revenues.

Freight & delivery revenues are as follows:

| in thousands | Three Months Ended | |
|---|--------------------|------------|
| | March 31 | |
| | 2019 | 2018 |
| Freight & Delivery Revenues | | |
| Total revenues | \$ 996,511 | \$ 854,474 |
| Freight & delivery revenues 1 | (162,605) | (129,690) |
| Total revenues excluding freight & delivery | \$ 833,906 | \$ 724,784 |

1 Includes freight & delivery to remote distribution sites.

CONSTRUCTION PAVING SERVICE REVENUES

Revenue from our asphalt construction paving business is recognized over time using the percentage-of-completion method under the cost approach. The percentage of completion is determined by costs incurred to date as a percentage of total costs estimated for the project. Under this approach, recognized contract revenue equals the total estimated contract revenue multiplied by the percentage of completion. Our construction contracts are unit priced and an account receivable is recorded for amounts invoiced based on actual units produced. Contract assets for estimated earnings in excess of billings, contract assets related to retainage provisions and contract liabilities for billings in excess of costs are immaterial. Variable consideration in our construction paving contracts is immaterial and consists of incentives and penalties based on the quality of work performed. Our construction paving contracts may contain warranty provisions covering defects in equipment, materials, design or workmanship that generally run from nine months to one year after project completion. Due to the nature of our construction paving projects, including contract owner inspections of the work during construction and prior to acceptance, we have not experienced material warranty costs for these short-term warranties.

VOLUMETRIC PRODUCTION PAYMENT DEFERRED REVENUES

In 2013 and 2012, we sold a percentage interest in certain future aggregates production for net cash proceeds of \$226,926,000. These transactions, structured as volumetric production payments (VPPs):

- § relate to eight quarries in Georgia and South Carolina
- § provide the purchaser solely with a nonoperating percentage interest in the subject quarries' future aggregates production
- § contain no minimum annual or cumulative guarantees by us for production or sales volume, nor minimum sales price
- § are both volume and time limited (we expect the transactions will last approximately 25 years, limited by volume rather than time)

We are the exclusive sales agent for, and transmit quarterly to the purchaser the proceeds from the sale of, the purchaser's share of future aggregates production. Our consolidated total revenues exclude the revenue from the sale of the purchaser's share of aggregates.

The proceeds we received from the sale of the percentage interest were recorded as deferred revenue on the balance sheet. We recognize revenue on a unit-of-sales basis (as we sell the purchaser's share of future production) relative to the volume limitations of the transactions. Given the nature of the risks and potential rewards assumed by the buyer, the transactions do not reflect financing activities.

Reconciliation of the VPP deferred revenue balances (current and noncurrent) is as follows:

| in thousands | Three Months Ended | |
|--|--------------------|------------|
| | March 31 | |
| | 2019 | 2018 |
| Deferred Revenue | | |
| Balance at beginning of year | \$ 192,783 | \$ 199,556 |
| Revenue recognized from deferred revenue | (1,652) | (1,355) |
| Balance at end of period | \$ 191,131 | \$ 198,201 |

Based on expected sales from the specified quarries, we expect to recognize \$7,500,000 of deferred revenue as income during the 12-month period ending March 31, 2020 (reflected in other current liabilities in our March 31, 2019 Condensed Consolidated Balance Sheet).

Note 5: Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three broad levels as described below:

Level 1: Quoted prices in active markets for identical assets or liabilities

Level 2: Inputs that are derived principally from or corroborated by observable market data

Level 3: Inputs that are unobservable and significant to the overall fair value measurement

Our assets subject to fair value measurement on a recurring basis are summarized below:

| | Level 1 Fair Value | | |
|----------------------|--------------------|---------------------|------------------|
| | March 31 2019 | December 31 2018 | March 31 2018 |
| in thousands | | | |
| Fair Value Recurring | | | |
| Rabbi Trust | | | |
| Mutual funds | \$ 20,953 | \$ 19,164 | \$ 19,412 |
| Total | \$ 20,953 | \$ 19,164 | \$ 19,412 |

| | Level 2 Fair Value | | |
|--------------------------|--------------------|---------------------|------------------|
| | March 31 2019 | December 31 2018 | March 31 2018 |
| in thousands | | | |
| Fair Value Recurring | | | |
| Rabbi Trust | | | |
| Money market mutual fund | \$ 490 | \$ 1,015 | \$ 2,738 |
| Total | \$ 490 | \$ 1,015 | \$ 2,738 |

We have two Rabbi Trusts for the purpose of providing a level of security for the employee nonqualified retirement and deferred compensation plans and for the directors' nonqualified deferred compensation plans. The fair values of these investments are estimated using a market approach. The Level 1 investments include mutual funds and equity securities for which quoted prices in active markets are available. Level 2 investments are stated at estimated fair value based on the underlying investments in the fund (short-term, highly liquid assets in commercial paper,

short-term bonds and certificates of deposit).

Net gains (losses) of the Rabbi Trust investments were \$1,863,000 and \$(776,000) for the three months ended March 31, 2019 and 2018, respectively. The portions of the net gains (losses) related to investments still held by the Rabbi Trusts at March 31, 2019 and 2018 were \$1,905,000 and \$(787,000), respectively.

The carrying values of our cash equivalents, restricted cash, accounts and notes receivable, short-term debt, trade payables and accruals, and all other current liabilities approximate their fair values because of the short-term nature of these instruments. Additional disclosures for derivative instruments and interest-bearing debt are presented in Notes 6 and 7, respectively.

Note 6: Derivative Instruments

During the normal course of operations, we are exposed to market risks including interest rates, foreign currency exchange rates and commodity prices. From time to time, and consistent with our risk management policies, we use derivative instruments to balance the cost and risk of such exposure. We do not use derivative instruments for trading or other speculative purposes.

In 2007 and 2018, we entered into interest rate locks of future debt issuances to hedge the risk of higher interest rates. These interest rate locks were designated as cash flow hedges. The gain/loss upon settlement of these interest rate hedges is deferred (recorded in AOCI) and amortized to interest expense over the term of the related debt.

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This amortization was reflected in the accompanying Condensed Consolidated Statements of Comprehensive Income as follows:

| in thousands | Location on Statement | Three Months Ended | |
|--|-----------------------------|--------------------|---------|
| | | March 31 2019 | 2018 |
| Interest Rate Hedges | | | |
| Loss reclassified from AOCI (effective portion) | Interest expense | \$ (75) | \$ (89) |

For the 12-month period ending March 31, 2020, we estimate that \$314,000 of the pretax loss in AOCI will be reclassified to interest expense.

Note 7: Debt

Debt is detailed as follows:

| in thousands | Effective Interest Rates | March 31 2019 | December 31 2018 | March 31 2018 |
|--|-----------------------------|------------------|---------------------|------------------|
| Short-term Debt | | | | |
| Bank line of credit expires 2021 1, 2 | 1.25% | \$ 178,500 | \$ 133,000 | \$ 200,000 |
| Total short-term debt | | \$ 178,500 | \$ 133,000 | \$ 200,000 |

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| | | | | |
|---|-------|--------------|--------------|--------------|
| Long-term Debt | | | | |
| Floating-rate notes due 2020 | 3.61% | \$ 250,000 | \$ 250,000 | \$ 250,000 |
| Floating-rate notes due 2021 | 3.59% | 500,000 | 500,000 | 500,000 |
| 8.85% notes due 2021 | 8.88% | 6,000 | 6,000 | 6,000 |
| 4.50% notes due 2025 | 4.65% | 400,000 | 400,000 | 400,000 |
| 3.90% notes due 2027 | 4.00% | 400,000 | 400,000 | 400,000 |
| 7.15% notes due 2037 | 8.05% | 129,239 | 129,239 | 129,239 |
| 4.50% notes due 2047 | 4.59% | 700,000 | 700,000 | 700,000 |
| 4.70% notes due 2048 | 5.42% | 460,949 | 460,949 | 460,949 |
| Other notes | 6.46% | 202 | 208 | 224 |
| Total long-term debt - face value | | \$ 2,846,390 | \$ 2,846,396 | \$ 2,846,412 |
| Unamortized discounts and debt issuance costs | | (65,777) | (67,016) | (70,703) |
| Total long-term debt - book value | | \$ 2,780,613 | \$ 2,779,380 | \$ 2,775,709 |
| Less current maturities | | 24 | 23 | 22 |
| Total long-term debt - reported value | | \$ 2,780,589 | \$ 2,779,357 | \$ 2,775,687 |
| Estimated fair value of long-term debt | | \$ 2,775,511 | \$ 2,695,802 | \$ 2,843,943 |

Borrowings on the bank line of credit are classified as short-term debt if we intend to repay within twelve months and as long-term debt if we have the intent and ability to extend payment beyond twelve months.

2 The effective interest rate reflects the margin above LIBOR for LIBOR-based borrowings. We also paid upfront fees that are amortized to interest expense and pay fees for unused borrowing capacity and standby letters of credit.

Discounts and debt issuance costs are amortized using the effective interest method over the terms of the respective notes resulting in \$1,239,000 and \$1,473,000 of net interest expense for these items for the three months ended March 31, 2019 and 2018, respectively.

LINE OF CREDIT

Our unsecured \$750,000,000 line of credit matures December 2021 and contains affirmative, negative and financial covenants customary for an unsecured investment-grade facility. The primary negative covenant limits our ability to incur secured debt. The financial covenants are: (1) a maximum ratio of debt to EBITDA of 3.5:1 (upon certain acquisitions, the maximum ratio can be 3.75:1 for three quarters), and (2) a minimum ratio of EBITDA to net cash interest expense of 3.0:1. As of March 31, 2019, we were in compliance with the line of credit covenants.

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Borrowings on our line of credit are classified as short-term debt if we intend to repay within twelve months and as long-term debt if we have the intent and ability to extend repayment beyond twelve months. Borrowings bear interest, at our option, at either LIBOR plus a credit margin ranging from 1.00% to 1.75%, or SunTrust Bank's base rate (generally, its prime rate) plus a credit margin ranging from 0.00% to 0.75%. The credit margin for both LIBOR and base rate borrowings is determined by our credit ratings. Standby letters of credit, which are issued under the line of credit and reduce availability, are charged a fee equal to the credit margin for LIBOR borrowings plus 0.175%. We also pay a commitment fee on the daily average unused amount of the line of credit that ranges from 0.10% to 0.25% determined by our credit ratings. As of March 31, 2019, the credit margin for LIBOR borrowings was 1.25%, the credit margin for base rate borrowings was 0.25%, and the commitment fee for the unused amount was 0.15%.

As of March 31, 2019, our available borrowing capacity was \$516,970,000. Utilization of the borrowing capacity was as follows:

§ \$178,500,000 was borrowed

§ \$54,530,000 was used to provide support for outstanding standby letters of credit

TERM DEBT

All of our \$2,846,390,000 (face value) of term debt is unsecured. \$2,846,188,000 of such debt is governed by three essentially identical indentures that contain customary investment-grade type covenants. The primary covenant in all three indentures limits the amount of secured debt we may incur without ratably securing such debt. As of March 31, 2019, we were in compliance with all term debt covenants.

In December 2018, we completed an exchange offer in which all of the \$460,949,000 of 4.70% senior unregistered notes due 2048 (issued in February 2018 and March 2018 as described below) were exchanged for new registered notes of like principal amount and like denomination as the unregistered notes, with substantially identical terms. We did not receive any proceeds from the issuance of the new notes.

In March 2018, we early retired via exchange offer \$110,949,000 of the \$240,188,000 7.15% senior notes due 2037 for: (1) a like amount of notes due 2048 (these notes are a further issuance of, and form a single series with, the \$350,000,000 of 4.70% senior notes due 2048 issued in February 2018 as described below) and (2) \$38,164,000 of cash. The cash payment primarily reflects the trading price of the retired notes relative to par and will be amortized to interest expense over the term of the notes due 2048. We recognized transaction costs of \$1,314,000 with this early retirement.

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In February 2018, we issued \$350,000,000 of 4.70% senior notes due 2048 (these notes now total \$460,949,000 including the notes issued in March as described above) and \$500,000,000 of floating-rate senior notes due 2021. Total proceeds of \$846,029,000 (net of discounts, transaction costs and an interest rate derivative settlement gain), together with cash on hand, were used to retire/repay without penalty or premium: (1) the \$350,000,000 term loan due 2018, (2) the \$250,000,000 term loan due 2021, and (3) the \$250,000,000 bank line of credit borrowings. We recognized noncash expense of \$203,000 with the acceleration of unamortized deferred transaction costs.

In January 2018, we early retired via redemption the remaining \$35,111,000 of the 7.50% senior notes due 2021 at a cost of \$40,719,000 including a premium of \$5,608,000. Additionally, we recognized noncash expense of \$263,000 with the acceleration of unamortized deferred transaction costs.

As a result of the first quarter 2018 early debt retirements described above, we recognized premiums of \$5,608,000, transaction costs of \$1,314,000 and noncash expense (acceleration of unamortized deferred transaction costs) of \$466,000. The combined charge of \$7,388,000 was a component of interest expense for the first quarter of 2018.

STANDBY LETTERS OF CREDIT

We provide, in the normal course of business, certain third-party beneficiaries with standby letters of credit to support our obligations to pay or perform according to the requirements of an underlying agreement. Such letters of credit typically have an initial term of one year, typically renew automatically, and can only be modified or canceled with the approval of the beneficiary. All of our standby letters of credit are issued by banks that participate in our \$750,000,000 line of credit, and reduce the borrowing capacity thereunder. Our standby letters of credit as of March 31, 2019 are summarized by purpose in the table below:

in thousands

| | |
|--------------------------------------|-----------|
| Standby Letters of Credit | |
| Risk management insurance | \$ 46,611 |
| Reclamation/restoration requirements | 7,919 |
| Total | \$ 54,530 |

Note 8: Commitments and Contingencies

As summarized by purpose directly above in Note 7, our standby letters of credit totaled \$54,530,000 as of March 31, 2019.

As described in Note 2, our nonmineral operating lease liabilities totaled \$434,681,000 as of March 31, 2019.

As described in Note 9, our asset retirement obligations totaled \$225,186,000 as of March 31, 2019.

LITIGATION AND ENVIRONMENTAL MATTERS

We are subject to occasional governmental proceedings and orders pertaining to occupational safety and health or to protection of the environment, such as proceedings or orders relating to noise abatement, air emissions or water discharges. As part of our continuing program of stewardship in safety, health and environmental matters, we have been able to resolve such proceedings and to comply with such orders without any material adverse effects on our

business.

We have received notices from the United States Environmental Protection Agency (EPA) or similar state or local agencies that we are considered a potentially responsible party (PRP) at a limited number of sites under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or Superfund) or similar state and local environmental laws. Generally, we share the cost of remediation at these sites with other PRPs or alleged PRPs in accordance with negotiated or prescribed allocations. There is inherent uncertainty in determining the potential cost of remediating a given site and in determining any individual party's share in that cost. As a result, estimates can change substantially as additional information becomes available regarding the nature or extent of site contamination, remediation methods, other PRPs and their probable level of involvement, and actions by or against governmental agencies or private parties.

We have reviewed the nature and extent of our involvement at each Superfund site, as well as potential obligations arising under other federal, state and local environmental laws. While ultimate resolution and financial liability is uncertain at a number of the sites, in our opinion based on information currently available, the ultimate resolution of claims and assessments related to these sites will not have a material effect on our consolidated results of operations, financial position or cash flows, although amounts recorded in a given period could be material to our results of operations or cash flows for that period.

We are a defendant in various lawsuits in the ordinary course of business. It is not possible to determine with precision the outcome, or the amount of liability, if any, under these lawsuits, especially where the cases involve possible jury trials with as yet undetermined jury panels.

In addition to these lawsuits in which we are involved in the ordinary course of business, certain other material legal proceedings are more specifically described below:

Lower Passaic River Study Area (DISCONTINUED OPERATIONS) — The Lower Passaic River Study Area is part of the Diamond Shamrock Superfund Site in New Jersey. Vulcan and approximately 70 other companies are parties (collectively the Cooperating Parties Group, CPG) to a May 2007 Administrative Order on Consent (AOC) with the EPA to perform a Remedial Investigation/Feasibility Study (draft RI/FS) of the lower 17 miles of the Passaic River (River). The draft RI/FS was submitted recommending a targeted hot spot remedy; however, the EPA issued a record of decision (ROD) in March 2016 that calls for a bank-to-bank dredging remedy for the lower 8 miles of the River. The EPA estimates that the cost of implementing this proposal is \$1.38 billion. In September 2016, the EPA entered into an Administrative Settlement Agreement and Order on Consent with Occidental Chemical Corporation (Occidental) in which Occidental agreed to undertake the remedial design for this bank-to-bank dredging remedy, and to reimburse the United States for certain response costs.

In August 2017, the EPA informed certain members of the CPG, including Vulcan, that it planned to use the services of a third-party allocator with the expectation of offering cash-out settlements to some parties in connection with the bank-to-bank remedy. This voluntary allocation process is intended to establish an impartial third-party expert recommendation that may be considered by the government and the participants as the basis of possible settlements. We have begun participating in this voluntary allocation process, which is likely to take several years.

In July 2018, Vulcan, along with more than one hundred other defendants, was sued by Occidental in United States District Court for the District of New Jersey, Newark Vicinage. Occidental is seeking cost recovery and contribution under CERCLA. It is unknown at this time whether the filing of the Occidental lawsuit will impact the EPA allocation process.

In October 2018, the EPA ordered the CPG to prepare a streamlined feasibility study specifically for the upper 9 miles of the River. This directive is focused on dioxin and covers the remaining portion of the River not included in the EPA's March 2016 ROD.

Efforts to remediate the River have been underway for many years and have involved hundreds of entities that have had operations on or near the River at some point during the past several decades. We formerly owned a chemicals operation near the mouth of the River, which was sold in 1974. The major risk drivers in the River have been identified as dioxins, PCBs, DDx and mercury. We did not manufacture any of these risk drivers and have no evidence that any of these were discharged into the River by Vulcan.

The AOC does not obligate us to fund or perform the remedial action contemplated by either the draft RI/FS or the ROD. Furthermore, the parties who will participate in funding the remediation and their respective allocations have not been determined. We do not agree that a bank-to-bank remedy is warranted, and we are not obligated to fund any of the remedial action at this time; nevertheless, we previously estimated the cost to be incurred by us as a potential

participant in a bank-to-bank dredging remedy and recorded an immaterial loss for this matter in 2015.

TEXAS BRINE MATTER (DISCONTINUED OPERATIONS) — During the operation of its former Chemicals Division, Vulcan secured the right to mine salt out of an underground salt dome formation in Assumption Parish, Louisiana from 1976 - 2005. Throughout that period and for all times thereafter, the Texas Brine Company (Texas Brine) was the operator contracted by Vulcan (and later Occidental) to mine and deliver the salt. We sold our Chemicals Division in 2005 and transferred our rights and interests related to the salt and mining operations to the purchaser, a subsidiary of Occidental, and we have had no association with the leased premises or Texas Brine since that time. In August 2012, a sinkhole developed in the vicinity of the Texas Brine mining operations, and numerous lawsuits were filed in state court in Assumption Parish, Louisiana. Other lawsuits, including class action litigation, were also filed in federal court before the Eastern District of Louisiana in New Orleans.

There are numerous defendants, including Texas Brine and Occidental, to the litigation in state and federal court. Vulcan was first brought into the litigation as a third-party defendant in August 2013 by Texas Brine. We have since been added as a direct and third-party defendant by other parties, including a direct claim by the state of Louisiana. Damage categories encompassed within the litigation include individual plaintiffs' claims for property damage, a claim by the state of Louisiana for response costs and civil penalties, claims by Texas Brine for response costs and lost profits, claims for physical damages to nearby oil and gas pipelines and storage facilities (pipelines), and business interruption claims.

In addition to the plaintiffs' claims, we were also sued for contractual indemnity and comparative fault by both Texas Brine and Occidental. It is alleged that the sinkhole was caused, in whole or in part, by our negligent actions or failure to act. It is also alleged that we breached the salt lease with Occidental, as well as an operating agreement and related contracts with Texas Brine; that we are strictly liable for certain property damages in our capacity as a former lessee of the salt lease; and that we violated certain covenants and conditions in the agreement under which we sold our Chemicals Division to Occidental. We likewise made claims for contractual indemnity and on a basis of comparative fault against Texas Brine and Occidental. Vulcan and Occidental have since dismissed all of their claims against one another. Texas Brine has claims that remain pending against Vulcan and against Occidental.

A bench trial (judge only) began in September 2017 and ended in October 2017 in the pipeline cases. The trial was limited in scope to the allocation of comparative fault or liability for causing the sinkhole, with a damages phase of the trial to be held at a later date. In December 2017, the judge issued a ruling on the allocation of fault among the three defendants as follows: Occidental 50%, Texas Brine 35% and Vulcan 15%. This ruling has been appealed by the parties.

We have settled all but two outstanding cases and our insurers have funded these settlements in excess of our self-insured retention amount. The remaining cases involve Texas Brine and the state of Louisiana. Discovery remains ongoing and we cannot reasonably estimate a range of liability pertaining to these open cases at this time.

NEW YORK WATER DISTRICT CASES (DISCONTINUED OPERATIONS) — During the operation of our former Chemicals Division, which was divested to Occidental in 2005, Vulcan manufactured a chlorinated solvent known as 1,1,1-trichloroethane. We are a defendant in 14 cases allegedly involving 1,1,1-trichloroethane. All of the cases are filed in the United States District Court for the Eastern District of New York. According to the various complaints, the plaintiffs are public drinking water providers who serve customers in Nassau County and Suffolk County, New York. It is alleged that our 1,1,1-trichloroethane was stabilized with 1,4-dioxane and that various water wells of the plaintiffs are contaminated with 1,4-dioxane. The cases, against us and other defendants, have been filed by the following plaintiffs: Albertson Water District, Bethpage Water District, Carle Place Water District, Garden City Park Water District, Jericho Water District, Manhasset-Lakeview Water District, Oyster Bay Water District, Plainview Water District, Port Washington Water District, Roslyn Water District, South Farmingdale Water District, Suffolk County Water Authority, Water Authority of Great Neck North, and the West Hempstead Water District (collectively, the Cases). The plaintiffs are seeking unspecified compensatory and punitive damages. We will vigorously defend the Cases. At this time we cannot determine the likelihood or reasonably estimate a range of loss, if any, pertaining to the Cases.

HEWITT LANDFILL MATTER (SUPERFUND SITE) — In September 2015, the Los Angeles Regional Water Quality Control Board (RWQCB) issued a Cleanup and Abatement Order (CAO) directing Vulcan to assess, monitor, cleanup and abate wastes that have been discharged to soil, soil vapor, and/or groundwater at the former Hewitt Landfill in Los Angeles. The CAO follows a 2014 Investigative Order from the RWQCB that sought data and a technical evaluation regarding the Hewitt Landfill, and a subsequent amendment to the Investigative Order requiring us to provide groundwater monitoring results to the RWQCB and to create and implement a work plan for further investigation of the Hewitt Landfill. In April 2016, we submitted an interim remedial action plan (IRAP) to the RWQCB, proposing an on-site pilot test of a pump and treat system; testing and implementation of a leachate recovery system; and storm water capture and conveyance improvements.

Operation of the on-site pilot-scale treatment system began in January 2017, and was completed in April 2017. With completion of the pilot testing and other investigative work, we submitted an amendment to the IRAP (AIRAP) to RWQCB in August 2017 proposing the use of a pump, treat and reinjection system. In December 2017, we submitted an addendum to the AIRAP, incorporating new data acquired since the prior submission. In February 2018, the AIRAP was approved by RWQCB. As a result of this approval, we have begun to implement the on-site source control activities described in the AIRAP. In 2018, we accrued a total of \$19,032,000 (Q3 - \$8,640,000 and Q4 - \$10,392,000) for the on-site remedy, bringing the life-to-date total to \$34,271,000.

We are also engaged in an ongoing dialogue with the EPA, the Los Angeles Department of Water and Power, and other stakeholders regarding the potential contribution of the Hewitt Landfill to groundwater contamination in the North Hollywood Operable Unit (NHO) of the San Fernando Valley Superfund Site. We are gathering and analyzing data and developing technical information to determine the extent of possible contribution by the Hewitt Landfill to the groundwater contamination in the area. This work is also intended to assist in identification of other PRPs that may have contributed to groundwater contamination in the area.

The EPA and Vulcan entered into an AOC and Statement of Work having an effective date of September 2017 for the design of two extraction wells south of the Hewitt Site to protect the North Hollywood West (NHW) well field. In November 2017, we submitted a Pre-Design Investigation (PDI) Work Plan to the EPA, which sets forth the activities and schedule for our evaluation of the need for a two-well remedy. These activities were completed between the first and third quarters of 2018, and in December 2018 we submitted a PDI Evaluation Report to the EPA. The PDI Evaluation Report summarizes data collection activities conducted pursuant to the PDI Work Plan, and provides model updates and evaluation of remediation alternatives to protect the NHW and Rinaldi-Toluca well fields from 1,4-dioxane from the Hewitt Site. Vulcan has not yet received comments or feedback from the EPA or the Regional Board on the report. Until the EPA's review of the PDI Evaluation Report is complete and an effective remedy can be agreed upon, we cannot identify an appropriate remedial action. Given the various stakeholders involved and the uncertainties relating to issues such as testing, monitoring, and remediation alternatives, we cannot reasonably estimate a loss pertaining to this matter.

NAFTA ARBITRATION — In September 2018, our subsidiary Legacy Vulcan, LLC (Legacy Vulcan), on its own behalf, and on behalf of our Mexican subsidiary Calizas Industriales del Carmen, S.A. de C.V. (Calica), served the United Mexican States (Mexico) a Notice of Intent to Submit a Claim to Arbitration under Chapter 11 of the North American Free Trade Agreement (NAFTA). Our NAFTA claim relates to the treatment of a portion of our quarrying operations in the State of Quintana Roo, in Mexico's Yucatan Peninsula, arising from, among other measures, Mexico's failure to comply with a legally binding zoning agreement and relates to other unfair, arbitrary and capricious actions by Mexico's environmental enforcement agency. We assert that these actions are in breach of Mexico's international obligations under NAFTA and international law.

As required by Article 1118 of NAFTA, we sought to settle this dispute with Mexico through consultations. Notwithstanding our good faith efforts to resolve the dispute amicably, we were unable to do so and filed a Request for Arbitration, which we filed with the International Centre for Settlement of Investment Disputes (ICSID) in December 2018. In January 2019, ICSID registered our Request for Arbitration.

We expect that the NAFTA arbitration will take at least two years to be concluded. At this time, there can be no assurance whether we will be successful in our NAFTA claim, and we cannot quantify the amount we may recover, if any, under this arbitration proceeding if we were successful.

It is not possible to predict with certainty the ultimate outcome of these and other legal proceedings in which we are involved and a number of factors, including developments in ongoing discovery or adverse rulings, or the verdict of a particular jury, could cause actual losses to differ materially from accrued costs. No liability was recorded for claims and litigation for which a loss was determined to be only reasonably possible or for which a loss could not be reasonably estimated. Legal costs incurred in defense of lawsuits are expensed as incurred. In addition, losses on certain claims and litigation described above may be subject to limitations on a per occurrence basis by excess insurance, as described in our most recent Annual Report on Form 10-K.

Note 9: Asset Retirement Obligations

Asset retirement obligations (AROs) are legal obligations associated with the retirement of long-lived assets resulting from the acquisition, construction, development and/or normal use of the underlying assets. Recognition of a liability for an ARO is required in the period in which it is incurred at its estimated fair value. The associated asset retirement costs are capitalized as part of the carrying amount of the underlying asset and depreciated over the estimated useful life of the asset. The liability is accreted through charges to operating expenses. If the ARO is settled for other than the carrying amount of the liability, we recognize a gain or loss on settlement.

We record all AROs for which we have legal obligations for land reclamation at estimated fair value. These AROs relate to our underlying land parcels, including both owned properties and mineral leases. For the three month periods ended March 31, we recognized ARO operating costs related to accretion of the liabilities and depreciation of the assets as follows:

| in thousands | Three Months Ended | |
|---------------------|--------------------|----------|
| | March 31 | |
| | 2019 | 2018 |
| ARO Operating Costs | | |
| Accretion | \$ 2,733 | \$ 2,684 |
| Depreciation | 1,841 | 1,337 |
| Total | \$ 4,574 | \$ 4,021 |

ARO operating costs are reported in cost of revenues. AROs are reported within other noncurrent liabilities in our accompanying Condensed Consolidated Balance Sheets.

Reconciliations of the carrying amounts of our AROs are as follows:

| in thousands | Three Months Ended | |
|------------------------------|--------------------|------------|
| | March 31 | |
| | 2019 | 2018 |
| Asset Retirement Obligations | | |
| Balance at beginning of year | \$ 225,726 | \$ 218,117 |

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| | | |
|--------------------------|------------|------------|
| Liabilities incurred | 0 | 0 |
| Liabilities settled | (3,578) | (6,021) |
| Accretion expense | 2,733 | 2,684 |
| Revisions, net | 305 | (71) |
| Balance at end of period | \$ 225,186 | \$ 214,709 |

ARO liabilities settled during the first three months of 2019 and 2018 include \$1,266,000 and \$4,402,000, respectively, of reclamation activities required under a development agreement and conditional use permits at two adjacent aggregates sites on owned property in Southern California. The reclamation required under the reclamation agreement will result in the restoration of 90 acres of previously mined property to conditions suitable for retail and commercial development.

Note 10: Benefit Plans

PENSION PLANS

We sponsor three qualified, noncontributory defined benefit pension plans. These plans cover substantially all employees hired before July 2007, other than those covered by union-administered plans. Normal retirement age is 65, but the plans contain provisions for earlier retirement. Benefits for the Salaried Plan and the Chemicals Hourly Plan are generally based on salaries or wages and years of service; the Construction Materials Hourly Plan provides benefits equal to a flat dollar amount for each year of service. In addition to these qualified plans, we sponsor three unfunded, nonqualified pension plans.

In 2005, benefit accruals for our Chemicals Hourly Plan participants ceased upon the sale of our Chemicals business. Effective July 2007, we amended our defined benefit pension plans to no longer accept new participants. Future benefit accruals for participants in our salaried defined benefit pension plans ceased on December 31, 2013, while salaried participants' earnings considered for benefit calculations were frozen on December 31, 2015.

The following table sets forth the components of net periodic pension benefit cost:

| PENSION BENEFITS | Three Months Ended | |
|--|--------------------|------------|
| | March 31 | |
| in thousands | 2019 | 2018 |
| Components of Net Periodic Benefit Cost | | |
| Service cost | \$ 1,249 | \$ 1,429 |
| Interest cost | 9,410 | 8,876 |
| Expected return on plan assets | (11,938) | (14,797) |
| Amortization of prior service cost | 335 | 335 |
| Amortization of actuarial loss | 1,358 | 2,457 |
| Net periodic pension benefit cost (credit) | \$ 414 | \$ (1,700) |
| Pretax reclassifications from AOCI included in net periodic pension benefit cost | \$ 1,693 | \$ 2,792 |

The contributions to pension plans for the three months ended March 31, 2019 and 2018, as reflected on the Condensed Consolidated Statements of Cash Flows, pertain to benefit payments under nonqualified plans for both periods and a discretionary qualified plan contribution of \$100,000,000 for the first quarter of 2018.

POSTRETIREMENT PLANS

In addition to pension benefits, we provide certain healthcare and life insurance benefits for some retired employees. In 2012, we amended our postretirement healthcare plan to cap our portion of the medical coverage cost at the 2015 level. Substantially all our salaried employees and, where applicable, certain of our hourly employees may become eligible for these benefits if they reach a qualifying age and meet certain service requirements. Generally, Company-provided healthcare benefits end when covered individuals become eligible for Medicare benefits, become eligible for other group insurance coverage or reach age 65, whichever occurs first.

The following table sets forth the components of net periodic other postretirement benefit cost:

| OTHER POSTRETIREMENT BENEFITS in thousands | Three Months Ended March 31 | |
|---|--------------------------------|------------|
| | 2019 | 2018 |
| Components of Net Periodic Benefit Cost | | |
| Service cost | \$ 329 | \$ 339 |
| Interest cost | 347 | 310 |
| Amortization of prior service credit | (980) | (991) |
| Amortization of actuarial gain | (327) | (324) |
| Net periodic postretirement benefit credit | \$ (631) | \$ (666) |
| Pretax reclassifications from AOCI included in net periodic postretirement benefit credit | \$ (1,307) | \$ (1,315) |

DEFINED CONTRIBUTION PLANS

We sponsor two defined contribution plans. Substantially all salaried and nonunion hourly employees are eligible to be covered by one of these plans. Under these plans, we match employees' eligible contributions at established rates. Expense recognized in connection with these matching obligations totaled \$13,919,000 and \$6,548,000 for the three months ended March 31, 2019 and 2018, respectively.

Note 11: other Comprehensive Income

Comprehensive income comprises two subsets: net earnings and other comprehensive income (OCI). The components of other comprehensive income are presented in the accompanying Condensed Consolidated Statements of Comprehensive Income, net of applicable taxes.

Amounts in accumulated other comprehensive income (AOCI), net of tax, are as follows:

| | March 31 | December 31 | March 31 |
|----------------------------------|--------------|--------------|--------------|
| in thousands | 2019 | 2018 | 2018 |
| AOCI | | | |
| Interest rate hedges | \$ (11,125) | \$ (11,180) | \$ (8,876) |
| Pension and postretirement plans | (160,800) | (161,035) | (136,937) |
| Total | \$ (171,925) | \$ (172,215) | \$ (145,813) |

Changes in AOCI, net of tax, for the three months ended March 31, 2019 are as follows:

Pension and

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| | Interest Rate | Postretirement | |
|---------------------------------------|---------------|----------------|--------------|
| in thousands | Hedges | Benefit Plans | Total |
| AOCI Balances as of December 31, 2018 | \$ (11,180) | \$ (161,035) | \$ (172,215) |
| Amounts reclassified from AOCI 55 | | 235 | 290 |
| Balances as of March 31, 2019 | \$ (11,125) | \$ (160,800) | \$ (171,925) |

Amounts reclassified from AOCI to earnings, are as follows:

| | Three Months Ended | |
|---|--------------------|----------|
| in thousands | March 31 2019 | 2018 |
| Amortization of Interest Rate Hedge Losses | | |
| Interest expense | \$ 75 | \$ 89 |
| Benefit from income taxes | (20) | (23) |
| Total | \$ 55 | \$ 66 |
| Amortization of Pension and Postretirement Plan Actuarial Loss and Prior Service Cost | | |
| Other nonoperating income | \$ 386 | \$ 1,476 |
| Benefit from income taxes | (151) | (385) |
| Total | \$ 235 | \$ 1,091 |
| Total reclassifications from AOCI to earnings | \$ 290 | \$ 1,157 |

Note 12: Equity

Our capital stock consists solely of common stock, par value \$1.00 per share, of which 480,000,000 shares may be issued. Holders of our common stock are entitled to one vote per share. We may also issue 5,000,000 shares of preferred stock, but no shares have been issued. The terms and provisions of such shares will be determined by our Board of Directors upon any issuance in accordance with our Certificate of Incorporation.

There were no shares held in treasury as of March 31, 2019, December 31, 2018 and March 31, 2018.

Our common stock purchases (all of which were open market purchases) and subsequent retirements for the year-to-date periods ended are as follows:

| in thousands, except average price | March 31 2019 | December 31 2018 | March 31 2018 ¹ |
|------------------------------------|------------------|---------------------|-------------------------------|
| Shares Purchased and Retired | | | |
| Number | 0 | 1,192 | 492 |
| Total purchase price | \$ 0 | \$ 133,983 | \$ 57,824 |
| Average price per share | \$ 0.00 | \$ 112.41 | \$ 117.47 |

¹ Settlement of 20 thousand shares at a total price of \$2,250 thousand occurred after March 31, 2018.

As of March 31, 2019, 8,297,789 shares may be purchased under the current authorization of our Board of Directors.

Changes in total equity are summarized below:

"

| in thousands | Three Months Ended March 31 2019 | 2018 |
|--------------|--|------|
|--------------|--|------|

| | | |
|--|--------------|--------------|
| Total Equity | | |
| Balance at beginning of year | \$ 5,202,903 | \$ 4,968,893 |
| Net earnings | 63,299 | 52,979 |
| Common stock issued | | |
| Share-based compensation plans, net of shares withheld for taxes | (14,068) | (24,109) |
| Purchase and retirement of common stock | 0 | (57,824) |
| Share-based compensation expense | 5,724 | 6,794 |
| Cash dividends on common stock (\$0.31/\$0.28 per share, respectively) | (40,939) | (37,176) |
| Other comprehensive income | 290 | 3,653 |
| Balance at end of period | \$ 5,217,209 | \$ 4,913,210 |

Note 13: Segment Reporting

We have four operating (and reportable) segments organized around our principal product lines: Aggregates, Asphalt, Concrete and Calcium. The vast majority of our activities are domestic. We sell a relatively small amount of construction aggregates outside the United States. Our Asphalt and Concrete segments are primarily supplied with their aggregates requirements from our Aggregates segment. These intersegment sales are made at local market prices for the particular grade and quality of product used in the production of asphalt mix and ready-mixed concrete. Management reviews earnings from the product line reporting segments principally at the gross profit level.

segment financial disclosure

| | Three Months Ended | |
|---|--------------------|------------|
| | March 31 | |
| in thousands | 2019 | 2018 |
| Total | | |
| Revenues | | |
| Aggregates 1 | \$ 834,965 | \$ 699,657 |
| Asphalt 2 | 132,090 | 103,835 |
| Concrete | 83,637 | 100,962 |
| Calcium | 1,951 | 1,942 |
| Segment sales | \$ 1,052,643 | \$ 906,396 |
| Aggregates intersegment sales | (56,132) | (51,922) |
| Total revenues | \$ 996,511 | \$ 854,474 |
| Gross Profit | | |
| Aggregates | \$ 185,716 | \$ 148,221 |
| Asphalt | (3,272) | 246 |
| Concrete | 8,563 | 10,320 |
| Calcium | 668 | 547 |
| Total | \$ 191,675 | \$ 159,334 |
| Depreciation, Depletion, Accretion and Amortization (DDA&A) | | |
| Aggregates | \$ 72,521 | \$ 65,953 |
| Asphalt | 8,550 | 7,002 |

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| | | |
|---|---------------|--------------|
| Concrete | 2,964 | 3,414 |
| Calcium | 60 | 69 |
| Other | 5,086 | 5,001 |
| Total | \$ 89,181 | \$ 81,439 |
| Identifiable Assets 3 | | |
| Aggregates | \$ 9,275,593 | \$ 8,545,904 |
| Asphalt | 564,103 | 447,961 |
| Concrete | 288,797 | 267,678 |
| Calcium | 3,905 | 4,156 |
| Total identifiable assets | \$ 10,132,398 | \$ 9,265,699 |
| General corporate assets | 133,346 | 140,998 |
| Cash and cash equivalents and restricted cash | 31,108 | 46,514 |
| Total assets | \$ 10,296,852 | \$ 9,453,211 |

1 Includes product sales (crushed stone, sand and gravel, sand, and other aggregates), as well as freight & delivery costs that we pass along to our customers, and service revenues (see Note 4) related to aggregates.

2 Includes product sales, as well as service revenues (see Note 4) from our asphalt construction paving business.

3 Certain temporarily idled assets are included within a segment's Identifiable Assets but the associated DDA&A is shown within Other in the DDA&A section above as the related DDA&A is excluded from segment gross profit.

Note 14: Supplemental Cash Flow Information

Supplemental information referable to our Condensed Consolidated Statements of Cash Flows is summarized below:

| in thousands | Three Months Ended | |
|--|--------------------|-----------|
| | March 31 | |
| | 2019 | 2018 |
| Cash Payments (Refunds) | | |
| Interest (exclusive of amount capitalized) | \$ 19,798 | \$ 15,829 |
| Income taxes | (364) | (105,699) |
| Noncash Investing and Financing Activities | | |
| Accrued liabilities for purchases of property, plant & equipment | \$ 34,360 | \$ 24,714 |
| Accrued liabilities for common stock purchases | 0 | 2,255 |
| Right-of-use assets obtained in exchange for new operating lease liabilities | 435,192 | 0 |
| Amounts referable to business acquisitions | | |
| Liabilities assumed | (2,720) | 2,796 |

Note 15: Goodwill

Goodwill is recognized when the consideration paid for a business exceeds the fair value of the tangible and identifiable intangible assets acquired. Goodwill is allocated to reporting units for purposes of testing goodwill for impairment. There were no charges for goodwill impairment in the three month periods ended March 31, 2019 and 2018. Accumulated goodwill impairment losses amount to \$252,664,000 in the Calcium segment.

We have four reportable segments organized around our principal product lines: Aggregates, Asphalt, Concrete and Calcium. Changes in the carrying amount of goodwill by reportable segment from December 31, 2018 to March 31, 2019 are summarized below:

| in thousands | Aggregates | Asphalt | Concrete | Calcium | Total |
|--------------|------------|---------|----------|---------|-------|
|--------------|------------|---------|----------|---------|-------|

| | | | | | | |
|-------------|--------------|-----------|------|------|--------------|--|
| Goodwill | | | | | | |
| Total as of | | | | | | |
| December | | | | | | |
| 31, 2018 | \$ 3,073,763 | \$ 91,633 | \$ 0 | \$ 0 | \$ 3,165,396 | |
| Goodwill | | | | | | |
| of acquired | | | | | | |
| businesses | | | | | | |
| 1 | (3,554) | 0 | 0 | 0 | (3,554) | |
| Total as of | | | | | | |
| March 31, | | | | | | |
| 2019 | \$ 3,070,209 | \$ 91,633 | \$ 0 | \$ 0 | \$ 3,161,842 | |

1 See Note 16 for a summary of prior year acquisitions.

We test goodwill for impairment on an annual basis or more frequently if events or circumstances change in a manner that would more likely than not reduce the fair value of a reporting unit below its carrying value. A decrease in the estimated fair value of one or more of our reporting units could result in the recognition of a material, noncash write-down of goodwill.

Note 16: Acquisitions and Divestitures

BUSINESS ACQUISITIONS

2019 BUSINESS ACQUISITIONS — We had no acquisitions through the three months ended March 31, 2019.

2018 BUSINESS ACQUISITIONS — For the full year 2018, we purchased the following operations, none of which were material to our results of operations or financial position either individually or collectively, for total consideration of \$219,863,000 (\$215,363,000 cash and \$4,500,000 payable):

- § Alabama — aggregates, asphalt mix and construction paving operations
- § California — aggregates and asphalt-mix operations
- § Texas — aggregates rail yards, asphalt mix and construction paving operations

As a result of the 2018 acquisitions, we recognized \$44,163,000 of amortizable intangible assets (contractual rights in place). The contractual rights in place will be amortized against earnings (\$43,072,000 - straight-line over a weighted-average 19.9 years and \$1,080,000 - units of sales in excess of 30.0 years) and \$7,385,000 will be deductible for income tax purposes over 15 years. Of the \$42,325,000 of goodwill recognized, \$4,468,000 will be deductible for income tax purposes over 15 years, and \$32,871,000 represents the balance of deferred tax liabilities generated from carrying over the seller's tax basis in the assets acquired (immaterial adjustments were recorded in 2019 including a decrease to goodwill of \$3,554,000).

DIVESTITURES AND PENDING DIVESTITURES

In 2019, we sold:

- § First quarter — two aggregates operations in Georgia and reversed a contingent payable related to the fourth quarter 2017 Department of Justice required divestiture of former Aggregates USA operations, resulting in a pretax gain of \$4,064,000

In 2018, we sold:

- § First quarter — ready-mixed concrete operations in Georgia resulting in a pretax gain of \$2,929,000 (we retained all real property which is leased to the buyer, and obtained a long-term aggregates supply agreement)

No assets met the criteria for held for sale at March 31, 2019, December 31, 2018 or March 31, 2018.

Note 17: New Accounting Standards

ACCOUNTING STANDARDS RECENTLY ADOPTED

LEASE ACCOUNTING During the first quarter of 2019, we adopted Accounting Standards Update (ASU) 2016-02, “Leases,” utilizing the comparatives transition option (we elected not to restate comparative periods) under ASC 840. This ASU amends prior accounting standards for lease accounting and adds additional disclosures about leasing arrangements. Under the new guidance, lessees are required to recognize lease right-of-use assets and lease liabilities on the balance sheet for all leases (excluding mineral leases) with terms longer than 12 months. Leases are classified as either finance or operating, with classification affecting the pattern of expense recognition in the income statement and presentation of cash flow in the statement of cash flows. Upon adoption, we recognized operating lease liabilities of \$442,697,000, with corresponding right-of-use assets based on the present value of the remaining minimum rental payments under current leasing standards for existing operating leases. See Note 1 under the caption Leases for the practical expedients elected and other information. Additionally, See Notes 2 and 14 for the required lease disclosures.

ACCOUNTING STANDARDS PENDING ADOPTION

defined benefit plans In August 2018, the Financial Accounting Standards Board (FASB) issued ASU 2018-14, “Changes to the Disclosure Requirements for Defined Benefit Plans,” which adds, removes and clarifies the disclosure requirements for employers that sponsor defined benefit pension and other postretirement benefit plans. ASU 2018-14 is effective for fiscal years ending after December 15, 2020 and is to be applied retrospectively. Early adoption is permitted. While we are still evaluating the impact of ASU 2018-14 and whether we will early adopt, it will not impact our consolidated financial statements as it only affects disclosure. Thus, the adoption of this standard will have a minor impact on the notes to our consolidated financial statements, specifically, our benefit plans note.

CREDIT LOSSES In June 2016, the FASB issued ASU 2016-13, “Measurement of Credit Losses on Financial Instruments,” which amends guidance on the impairment of financial instruments. The new guidance estimates credit losses based on expected losses, modifies the impairment model for available-for-sale debt securities and provides for a simplified accounting model for purchased financial assets with credit deterioration. ASU 2016-13 is effective for annual reporting periods beginning after December 15, 2019, and interim reporting periods within those annual reporting periods. We do not expect the adoption of this standard to have a material impact on our consolidated financial statements.

ITEM 2

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

GENERAL COMMENTS

Overview

We provide the basic materials for the infrastructure needed to maintain and expand the U.S. economy. We operate primarily in the U.S. and are the nation's largest supplier of construction aggregates (primarily crushed stone, sand and gravel) and a major producer of asphalt mix and ready-mixed concrete. Our strategy and competitive advantage are based on our strength in aggregates. Aggregates are used in most types of construction and in the production of asphalt mix and ready-mixed concrete.

Demand for our products is dependent on construction activity and correlates positively with growth in population, household formation and employment. End uses include public construction (e.g., highways, bridges, buildings, airports, schools, prisons, sewer and waste disposal systems, water supply systems, dams and reservoirs), private nonresidential construction (e.g., manufacturing, retail, offices, industrial and institutional) and private residential construction (e.g., single-family houses, duplexes, apartment buildings and condominiums). Customers for our products include heavy construction and paving contractors; commercial building contractors; concrete products manufacturers; residential building contractors; railroads and electric utilities; and to a smaller extent state, county and municipal governments.

Aggregates have a high weight-to-value ratio and, in most cases, must be produced near where they are used; if not, transportation can cost more than the materials, rendering them uncompetitive compared to locally produced materials. Exceptions to this typical market structure include areas along the U.S. Gulf Coast and the Eastern Seaboard where there are limited supplies of locally available high-quality aggregates. We serve these markets from quarries that have access to cost-effective long-haul transportation — shipping by barge and rail — and from our quarry on Mexico's Yucatan Peninsula with our fleet of Panamax-class, self-unloading ships.

There are limited substitutes for quality aggregates. Because of barriers to entry created in many metropolitan markets by zoning and permitting regulation and because of high transportation costs relative to the value of the product, the location of reserves is a critical factor to our long-term success.

No material part of our business depends upon any single customer whose loss would have a significant adverse effect on our business. In 2018, our five largest customers accounted for 8% of our total revenues (excluding internal sales), and no single customer accounted for more than 2% of our total revenues. Although approximately 45% to 55% of our aggregates shipments have historically been used in publicly funded construction, such as highways, airports and government buildings, relatively insignificant sales are made directly to federal, state, county or municipal governments/agencies. Therefore, although reductions in state and federal funding can curtail publicly funded construction, our business is not directly subject to renegotiation of profits or termination of contracts with state or federal governments.

While aggregates is our focus and primary business, we believe vertical integration between aggregates and downstream products, such as asphalt mix and ready-mixed concrete, can be managed effectively in certain markets generating acceptable financial returns and enhancing financial returns in our core Aggregates segment. We produce and sell asphalt mix and/or ready-mixed concrete primarily in our Alabama, mid-Atlantic, Southwestern, Tennessee and Western markets. Aggregates comprise approximately 95% of asphalt mix by weight and 80% of ready-mixed concrete by weight. In both of these downstream businesses, aggregates are primarily supplied from our operations.

Seasonality and cyclical nature of our business

Almost all our products are produced and consumed outdoors. Seasonal changes and other weather-related conditions can affect the production and sales volume of our products. Therefore, the financial results for any quarter do not necessarily indicate the results expected for the year. Normally, the highest sales and earnings are in the third quarter and the lowest are in the first quarter. Furthermore, our sales and earnings are sensitive to national, regional and local economic conditions, demographic and population fluctuations, and particularly to cyclical swings in construction spending, primarily in the private sector.

EXECUTIVE SUMMARY

Financial highlights for first Quarter 2019

Compared to first quarter 2018:

- § Total revenues increased \$142.0 million, or 17%, to \$996.5 million
- § Gross profit increased \$32.3 million, or 20%, to \$191.7 million
- § Aggregates segment sales increased \$135.3 million, or 19%, to \$835.0 million
- § Aggregates segment freight-adjusted revenues increased \$99.2 million, or 19%, to \$628.6 million
- § Shipments increased 13%, or 5.1 million tons, to 45.6 million tons
- § Same-store shipments increased 11%, or 4.5 million tons, to 45.0 million tons
- § Freight-adjusted sales price increased 5%, or \$0.71 per ton
- § Same-store freight-adjusted sales price also increased 5%, or \$0.71 per ton
- § Segment gross profit increased \$37.5 million, or 25%, to \$185.7 million
- § Asphalt, Concrete and Calcium segment gross profit decreased \$5.2 million, or 46%, to \$6.0 million, collectively
- § Selling, administrative and general (SAG) expenses increased \$11.9 million and decreased 0.10 percentage points (10 basis points) as a percentage of total revenues
- § Operating earnings increased \$23.2 million, or 29%, to \$104.4 million
- § Earnings from continuing operations were \$63.9 million, or \$0.48 per diluted share, compared to \$53.4 million, or \$0.40 per diluted share
- § Adjusted earnings from continuing operations were \$0.46 per diluted share, compared to \$0.44 per diluted share
- § Net earnings were \$63.3 million, an increase of \$10.3 million, or 19%
- § Adjusted EBITDA was \$192.7 million, an increase of \$24.9 million, or 15%
- § Returned capital to shareholders via dividends (\$40.9 million @ \$0.31 per share versus \$37.2 million @ \$0.28 per share) and share repurchases (none in 2019 versus \$55.6 million @ an average of \$117.47 per share)

Net earnings were \$63.3 million and Adjusted EBITDA was \$192.7 million in the first quarter. The 19% growth in net earnings and 15% growth in Adjusted EBITDA were driven by strong aggregates shipments, up 13% year-over-year, and a 5.4% increase in aggregates pricing.

Our first quarter results represent a good start to the year and are consistent with our full-year expectations. Broad-based shipment growth, compounding price improvements and solid operating efficiencies in our Aggregates segment contributed to 17% growth in total revenues and 29% growth in operating earnings. These results demonstrate the strength of our unique aggregates-centric business model.

Aggregates segment gross profit increased from \$3.66 per ton to \$4.07 per ton, an 11% increase from the prior year's first quarter. This double-digit improvement in first quarter unit profitability builds on last year's results, and we are well positioned for further gains in our industry-leading unit profitability.

Our key markets are benefitting from both robust growth in public construction demand and continued growth in private demand. Leading indicators, such as construction award activity, signal broad-based shipment growth across

our footprint. Above-average demand growth in our markets compared to the rest of the United States further supports our positive outlook for shipment growth. Aggregates pricing momentum continues to improve — consistent with our full-year expectations. Additionally, the underlying direction of aggregates unit profitability remains clear, supported by our strategic and tactical focus on compounding pricing improvements and operating disciplines. As a result, we reiterate our full-year expectations for 2019 earnings from continuing operations of between \$4.55 and \$5.05 per diluted share and Adjusted EBITDA of between \$1.25 and \$1.33 billion. All other aspects of our outlook are consistent with those provided in our 10-K.

Capital expenditures in the first quarter were \$122.0 million. This amount included \$67.5 million of core operating and maintenance capital investments to improve or replace existing property, plant & equipment. In addition, we invested \$54.5 million in internal growth projects to secure new aggregates reserves, develop new production sites, enhance our distribution capabilities, and support the targeted growth of our asphalt operations. Our full-year capital expenditures for 2019 remain the same, approximately \$250 million on maintenance capital and \$200 million for internal growth projects that are largely underway.

During the quarter, we returned \$40.9 million to shareholders through dividends, a 10 percent increase versus the prior year quarter. No shares were repurchased during the current quarter. At quarter-end, total debt was \$3.0 billion, or 2.6 times trailing-twelve month Adjusted EBITDA.

RESULTS OF OPERATIONS

Total revenues are primarily derived from our product sales of aggregates, asphalt mix and ready-mixed concrete, and include freight & delivery costs that we pass along to our customers to deliver these products. We also generate service revenues from our asphalt construction paving business and services related to our aggregates business. We discuss separately our discontinued operations, which consist of our former Chemicals business.

The following table highlights significant components of our consolidated operating results including EBITDA and Adjusted EBITDA.

consolidated operating Result highlights

| in millions, except per share data | Three Months Ended | |
|---|--------------------|----------|
| | March 31 | |
| | 2019 | 2018 |
| Total revenues | \$ 996.5 | \$ 854.5 |
| Cost of revenues | 804.8 | 695.2 |
| Gross profit | \$ 191.7 | \$ 159.3 |
| Gross profit margin | 19.2% | 18.6% |
| Selling, administrative and general (SAG) expenses | \$ 90.3 | \$ 78.3 |
| SAG as a percentage of total revenues | 9.1% | 9.2% |
| Operating earnings | \$ 104.4 | \$ 81.2 |
| Interest expense, net | \$ 32.9 | \$ 37.8 |
| Earnings from continuing operations before income taxes | \$ 74.6 | \$ 48.5 |
| Earnings from continuing operations | \$ 63.9 | \$ 53.4 |
| Loss on discontinued operations, net of income taxes | (0.6) | (0.4) |
| Net earnings | \$ 63.3 | \$ 53.0 |
| Diluted earnings (loss) per share | | |
| Continuing operations | \$ 0.48 | \$ 0.40 |
| Discontinued operations | 0.00 | (0.01) |
| Diluted net earnings per share | \$ 0.48 | \$ 0.39 |
| EBITDA | \$ 196.7 | \$ 167.7 |
| Adjusted EBITDA | \$ 192.7 | \$ 167.8 |

first quarter 2019 Compared to first Quarter 2018

First quarter 2019 total revenues were \$996.5 million, up 17% from the first quarter of 2018. Shipments increased in aggregates (+13%) and asphalt mix (+11%) while they declined in ready-mixed concrete (-18%). Gross profit increased in the Aggregates segment (+\$37.5 million or +25%), while it declined in the Asphalt (-\$3.5 million) and Concrete (-\$1.8 million or -17%) segments. Asphalt segment earnings were compressed by a 29% increase in unit costs for liquid asphalt compared to first quarter 2018, which accounted for a \$9.0 million increase in cost. Conversely, a 4% decrease in the unit cost of diesel fuel decreased costs \$1.3 million from the prior year's first quarter with most (\$1.1 million) of this cost decline reflected in the Aggregates segment.

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Net earnings for the first quarter of 2019 were \$63.3 million, or \$0.48 per diluted share, compared to \$53.0 million, or \$0.39 per diluted share, in the first quarter of 2018. Each period's results were impacted by discrete items, as follows:

Net earnings for the first quarter of 2019 include:

§ pretax gains of \$4.1 million related to the sale of businesses (see Note 16 to the Condensed Consolidated Financial Statements)

Net earnings for the first quarter of 2018 include:

§ pretax interest charges of \$7.4 million related to early debt retirements
 § pretax gains of \$2.9 million related to the sale of businesses
 § pretax gains of \$1.7 million for business interruption claims
 § pretax charges of \$0.5 million associated with non-routine business development
 § pretax charges of \$4.2 million for restructuring

Continuing Operations — Changes in earnings from continuing operations before income taxes for the first quarter of 2019 versus the first quarter of 2018 are summarized below:

earnings from continuing operations before income taxes

| | |
|---|---------|
| in millions | |
| First quarter 2018 | \$ 48.5 |
| Higher aggregates gross profit | 37.5 |
| Lower asphalt gross profit | (3.5) |
| Lower concrete gross profit | (1.8) |
| Higher calcium gross profit | 0.1 |
| Higher selling, administrative and general expenses | (11.9) |
| Higher gain on sale of property, plant & equipment and businesses | 3.1 |
| Lower interest expense, net | 4.8 |
| All other | (2.2) |
| First quarter 2019 | \$ 74.6 |

First quarter 2019 Aggregates segment gross profit was \$185.7 million (\$4.07 per ton) versus \$148.2 million (\$3.66 per ton) in first quarter 2018. As a percentage of segment sales, gross profit margin expanded 1.0 percentage points (100 basis points) due to strong growth in shipments and price improvements.

The trailing-twelve month same-store Aggregates segment incremental gross profit flow-through rate was 57%, which is in-line with longer-term expectations of 60%. As a reminder, quarterly gross profit flow-through rates can vary widely from quarter to quarter; therefore, we evaluate this metric on a trailing-twelve month basis.

First quarter aggregates shipments increased 13% (11% same-store) versus the prior year quarter. Shipment growth was realized across most of our footprint. Solid underlying fundamentals and pent-up demand carried over from last year helped drive shipment growth across most of our footprint. However, in California, shipments decreased by double-digits due to record rainfall throughout most of the quarter. A strong demand environment, driven by transportation-related construction as well as growth in our project-related bookings, support our expectations for 2019 shipment growth in California.

Price growth was positive across all our markets. For the quarter, freight-adjusted average sales price for aggregates increased 5.4% (5.8% mix adjusted) versus the prior year's quarter. Pricing was particularly strong in Arizona, California, Georgia, Tennessee and Texas. Positive trends in backlogged project work along with demand visibility and customer confidence support continued upward pricing movements throughout 2019.

First quarter unit cost of sales (freight-adjusted) increased 3% (same for same-store) compared to the prior year's quarter due in part to planned higher repair & maintenance costs in advance of the construction season. Unit cost of sales in California was negatively impacted by the aforementioned record rainfall. We remain focused on compounding improvements in unit margin throughout the cycle through fixed cost leverage, price growth and operating efficiencies.

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In line with expectations, Asphalt segment gross profit was a loss of \$3.3 million, down \$3.5 million from the \$0.2 million gross profit in the prior year quarter. Asphalt mix shipments increased 11% (5% same-store) while selling prices increased 5%, or \$2.73 per ton. However, the average unit cost for liquid asphalt was 29% higher than the prior year quarter, remaining relatively stable throughout the quarter on a monthly basis. Pricing gains are beginning to offset higher liquid asphalt costs, but their impact will be gradual during 2019.

Concrete segment gross profit was \$8.6 million versus \$10.3 million in the prior year quarter. Ready-mixed concrete shipments decreased 18% (same-store -10%) year-over-year driven by inclement weather in Virginia while pricing increased 1% (same for same-store).

Our Calcium segment reported gross profit of \$0.7 million, a slight increase versus \$0.5 million in the first quarter of 2018.

Collectively, our full-year earnings growth outlook for our non-Aggregates segments remains unchanged.

SAG expenses were \$90.3 million versus \$78.3 million in the prior year quarter. Full-year expectations for total SAG expenses remain unchanged at \$355 million. The year-over-year increase was partially attributable to increased wages and incentives reflecting higher employment levels and improved performance. As a percentage of total revenues, first quarter SAG expense decreased from 9.2% in 2018 to 9.1% in 2019. We remain focused on further leveraging our overhead cost structure.

Other operating expense, which has an approximate run-rate of \$12 million a year (exclusive of discrete items), is composed of various operating items not separately presented in the accompanying Condensed Consolidated Statements of Comprehensive Income. Total other operating expense and significant items included in the total were:

- § \$4.3 million in first quarter 2019
- § \$4.0 million in first quarter 2018 — includes discrete items as follows:
 - § \$1.7 million gain referable to the settlement of business interruption claims related to the 2010 Gulf Coast oil spill
 - § \$0.5 million of charges associated with non-routine business development
 - § \$4.2 million of managerial restructuring charges

Net interest expense was \$32.9 million in the first quarter of 2019 compared to \$37.8 million in the first quarter of 2018. The prior year amount includes a \$7.4 million charge related to the first quarter 2018 debt refinancing. For additional details, see Note 7 to the condensed consolidated financial statements.

Income tax expense from continuing operations was \$10.7 million in the first quarter of 2019 compared to an income tax benefit of \$4.9 million in the first quarter of 2018. The increase in tax expense is related to an increase in earnings along with a decrease in share-based compensation excess tax benefits quarter-over-quarter.

Earnings from continuing operations were \$0.48 per diluted share in the first quarter of 2019 compared to \$0.40 per diluted share in the first quarter of 2018.

Discontinued Operations — First quarter pretax loss from discontinued operations was \$0.6 million in 2019 compared with \$0.6 million in 2018. Both periods include charges related to general and product liability costs, including legal defense costs, and environmental remediation costs associated with our former Chemicals business. For additional details, see Note 1 to the condensed consolidated financial statements under the caption Discontinued Operations.

RECONCILIATION OF NON-GAAP FINANCIAL MEASURES

SAME-STORE

We have provided certain information on a same-store basis. When discussing our financial results in comparison to prior periods, we may exclude the operating results of recently acquired/divested businesses that do not have comparable results in the periods being discussed. These recently acquired/divested businesses are disclosed in Note 16 “Acquisitions and Divestitures.” This approach allows us to evaluate the performance of our operations on a comparable basis. We believe that measuring performance on a same-store basis is useful to investors because it enables evaluation of how our operations are performing period over period without the effects of acquisition and divestiture activity. Our same-store information may not be comparable to similar measures used by other companies.

AGGREGATES SEGMENT FREIGHT-ADJUSTED REVENUES

Aggregates segment freight-adjusted revenues is not a Generally Accepted Accounting Principle (GAAP) measure. We present this metric as it is consistent with the basis by which we review our operating results. We believe that this presentation is consistent with our competitors and meaningful to our investors as it excludes revenues associated with freight & delivery, which are pass-through activities. It also excludes immaterial other revenues related to services, such as landfill tipping fees, that are derived from our aggregates business. Additionally, we use this metric as the basis for calculating the average sales price of our aggregates products. Reconciliation of this metric to its nearest GAAP measure is presented below:

| dollars in millions | Three Months Ended | |
|-------------------------------|--------------------|----------|
| | March 31 | |
| | 2019 | 2018 |
| Aggregates segment | | |
| Segment sales | \$ 835.0 | \$ 699.7 |
| Less | | |
| Freight & delivery revenues 1 | 195.2 | 159.0 |
| Other revenues | 11.2 | 11.3 |
| Freight-adjusted revenues | \$ 628.6 | \$ 529.4 |
| Unit shipments - tons | 45.6 | 40.5 |
| Freight-adjusted sales price | \$ 13.77 | \$ 13.06 |

At the segment level, freight & delivery revenues include intersegment freight & delivery (which are eliminated at the consolidated level) and freight to remote distribution sites.

Aggregates segment incremental gross profit

Aggregates segment incremental gross profit flow-through rate is not a GAAP measure and represents the year-over-year change in gross profit divided by the year-over-year change in segment sales excluding freight & delivery (revenues and costs). We present this metric as it is consistent with the basis by which we review our operating results. We believe that this presentation is consistent with our competitors and meaningful to our investors as it excludes revenues associated with freight & delivery, which are pass-through activities (we do not generate a profit associated with the transportation component of the selling price of the product). Reconciliations of these metrics to their nearest GAAP measures are presented below:

margin in accordance with gaap

| dollars in millions | Three Months Ended March 31 | | Trailing-Twelve Months March 31 | |
|---------------------------------|--------------------------------|----------|------------------------------------|------------|
| | 2019 | 2018 | 2019 | 2018 |
| Aggregates segment | | | | |
| Gross profit | \$ 185.7 | \$ 148.2 | \$ 1,029.4 | \$ 864.0 |
| Segment sales | \$ 835.0 | \$ 699.7 | \$ 3,649.0 | \$ 3,145.4 |
| Gross profit margin | 22.2% | 21.2% | 28.2% | 27.5% |
| Incremental gross profit margin | 27.7% | | 32.8% | |

FLOW-THROUGH RATE (non-gaap)

| dollars in millions | Three Months Ended March 31 | | Trailing-Twelve Months March 31 | |
|---|--------------------------------|----------|------------------------------------|------------|
| | 2019 | 2018 | 2019 | 2018 |
| Aggregates segment | | | | |
| Gross profit | \$ 185.7 | \$ 148.2 | \$ 1,029.4 | \$ 864.0 |
| Less: Contribution from acquisitions (same-store) | 0.6 | \$ (0.1) | \$ 11.7 | \$ (1.0) |
| Same-store gross profit | \$ 185.1 | \$ 148.3 | \$ 1,017.7 | \$ 865.0 |
| Segment sales | \$ 835.0 | \$ 699.7 | \$ 3,649.0 | \$ 3,145.4 |
| Less: Freight & delivery revenues 1 | 195.2 | 159.0 | 833.1 | 681.7 |
| Segment sales excluding freight & delivery | \$ 639.8 | \$ 540.7 | \$ 2,815.9 | \$ 2,463.7 |
| Less: Contribution from acquisitions (same-store) | 10.2 | \$ 0.4 | \$ 85.5 | \$ 1.6 |

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| | | | | |
|---|----------|----------|------------|------------|
| Same-store segment sales excluding freight & delivery | \$ 629.6 | \$ 540.3 | \$ 2,730.4 | \$ 2,462.1 |
| Gross profit flow-through rate | 29.0% | 27.4% | 36.6% | 35.1% |
| Same-store gross profit flow-through rate | 29.4% | 27.5% | 37.3% | 35.1% |
| Incremental gross profit flow-through rate | 37.8% | | 47.0% | |
| Same-store incremental gross profit flow-through rate | 41.2% | | 56.9% | |

1 At the segment level, freight & delivery revenues include intersegment freight & delivery (which are eliminated at the consolidated level) and freight to remote distribution sites.

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cash gross profit

GAAP does not define “cash gross profit” and it should not be considered as an alternative to earnings measures defined by GAAP. We and the investment community use this metric to assess the operating performance of our business. Additionally, we present this metric as we believe that it closely correlates to long-term shareholder value. We do not use this metric as a measure to allocate resources. Cash gross profit adds back noncash charges for depreciation, depletion, accretion and amortization to gross profit. Aggregates segment cash gross profit per ton is computed by dividing Aggregates segment cash gross profit by tons shipped. Reconciliation of this metric to its nearest GAAP measure is presented below:

| in millions, except per ton data | Three Months Ended | |
|---|--------------------|----------|
| | March 31 | |
| | 2019 | 2018 |
| Aggregates segment | | |
| Gross profit | \$ 185.7 | \$ 148.2 |
| Depreciation, depletion, accretion and amortization | 72.5 | 66.0 |
| Aggregates segment cash gross profit | \$ 258.2 | \$ 214.2 |
| Unit shipments - tons | 45.6 | 40.5 |
| Aggregates segment gross profit per ton | \$ 4.07 | \$ 3.66 |
| Aggregates segment cash gross profit per ton | \$ 5.66 | \$ 5.28 |
| Asphalt segment | | |
| Gross profit | \$ (3.3) | \$ 0.2 |
| Depreciation, depletion, accretion and amortization | 8.6 | 7.0 |
| Asphalt segment cash gross profit | \$ 5.3 | \$ 7.2 |
| Concrete segment | | |
| Gross profit | \$ 8.6 | \$ 10.3 |
| Depreciation, depletion, accretion and amortization | 3.0 | 3.4 |
| Concrete segment cash gross profit | \$ 11.6 | \$ 13.7 |
| Calcium segment | | |
| Gross profit | \$ 0.7 | \$ 0.5 |
| Depreciation, depletion, accretion and amortization | 0.1 | 0.1 |
| Calcium segment cash gross profit | \$ 0.8 | \$ 0.6 |

EBITDA and adjusted ebitda

GAAP does not define “Earnings Before Interest, Taxes, Depreciation and Amortization” (EBITDA) and it should not be considered as an alternative to earnings measures defined by GAAP. We use this metric to assess the operating performance of our business and as a basis for strategic planning and forecasting as we believe that it closely correlates to long-term shareholder value. We do not use this metric as a measure to allocate resources. We adjust EBITDA for certain items to provide a more consistent comparison of earnings performance from period to period. Reconciliation of this metric to its nearest GAAP measure is presented below (numbers may not foot due to rounding):

| in millions | Three Months Ended | |
|---|--------------------|----------|
| | March 31 | |
| | 2019 | 2018 |
| Net earnings | \$ 63.3 | \$ 53.0 |
| Income tax expense (benefit) | 10.7 | (4.9) |
| Interest expense, net of interest income | 32.9 | 37.8 |
| Loss on discontinued operations, net of tax | 0.6 | 0.4 |
| EBIT | 107.6 | 86.3 |
| Depreciation, depletion, accretion and amortization | 89.2 | 81.4 |
| EBITDA | \$ 196.7 | \$ 167.7 |
| Gain on sale of businesses | \$ (4.1) | \$ (2.9) |
| Business interruption claims recovery | 0.0 | (1.7) |
| Business development 1 | 0.0 | 0.5 |
| Restructuring charges | 0.0 | 4.2 |
| Adjusted EBITDA | \$ 192.7 | \$ 167.8 |
| Depreciation, depletion, accretion and amortization | (89.2) | (81.4) |
| Adjusted EBIT | \$ 103.5 | \$ 86.4 |

1 Represents non-routine charges associated with acquisitions including the cost impact of purchase accounting inventory valuations.

Adjusted Diluted EPS from continuing Operations

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Similar to our presentation of Adjusted EBITDA, we present Adjusted diluted earnings per share (EPS) from continuing operations to provide a more consistent comparison of earnings performance from period to period. This metric is not defined by GAAP and should not be considered as an alternative to earnings measures defined by GAAP. Reconciliation of this metric to its nearest GAAP measure is presented below:

| | Three Months Ended | |
|---|--------------------|---------|
| | March 31 | |
| | 2019 | 2018 |
| Diluted Earnings Per Share | | |
| Net earnings | \$ 0.48 | \$ 0.39 |
| Less: Discontinued operations (loss) | 0.00 | (0.01) |
| Diluted EPS from continuing operations | \$ 0.48 | \$ 0.40 |
| Items included in Adjusted EBITDA above | \$ (0.02) | \$ 0.00 |
| Debt refinancing costs | 0.00 | 0.04 |
| Adjusted diluted EPS from continuing operations | \$ 0.46 | \$ 0.44 |

2019 projected ebitda

The following reconciliation to the mid-point of the range of 2019 Projected EBITDA excludes adjustments (as noted in Adjusted EBITDA above) as they are difficult to forecast (timing or amount). Due to the difficulty in forecasting such adjustments, we are unable to estimate their significance. This metric is not defined by GAAP and should not be considered as an alternative to earnings measures defined by GAAP. Reconciliation of this metric to its nearest GAAP measure is presented below:

| | 2019 Projected | |
|---|----------------|-------|
| in millions | Mid-point | |
| Net earnings | \$ | 640 |
| Income tax expense | | 160 |
| Interest expense, net | | 130 |
| Discontinued operations, net of tax | | 0 |
| Depreciation, depletion, accretion and amortization | | 360 |
| Projected EBITDA | \$ | 1,290 |

LIQUIDITY AND FINANCIAL RESOURCES

Our primary sources of liquidity are cash provided by our operating activities and a substantial, committed bank line of credit. Additional sources of capital include access to the capital markets, the sale of surplus real estate, and dispositions of nonstrategic operating assets. We believe these financial resources are sufficient to fund our business requirements for 2019, including:

- § cash contractual obligations
- § capital expenditures
- §

- debt service obligations
- § dividend payments
- § potential share repurchases
- § potential acquisitions

Our balanced approach to capital deployment remains unchanged. We intend to balance reinvestment in our business, growth through acquisitions and return of capital to shareholders, while sustaining financial strength and flexibility.

We actively manage our capital structure and resources in order to minimize the cost of capital while properly managing financial risk. We seek to meet these objectives by adhering to the following principles:

- § maintain substantial bank line of credit borrowing capacity
- § proactively manage our debt maturity schedule such that repayment/refinancing risk in any single year is low
- § maintain an appropriate balance of fixed-rate and floating-rate debt
- § minimize financial and other covenants that limit our operating and financial flexibility

Cash

Included in our March 31, 2019 cash and cash equivalents and restricted cash balance of \$31.1 million is \$0.3 million of restricted cash as described in Note 1 under the caption Restricted Cash.

cash from operating activities

| in millions | Three Months Ended | |
|---|--------------------|---------|
| | March 31 | |
| | 2019 | 2018 |
| Net earnings | \$ 63.3 | \$ 53.0 |
| Depreciation, depletion, accretion and amortization (DDA&A) | 89.2 | 81.4 |
| Contributions to pension plans | (2.3) | (102.4) |
| Deferred tax expense (benefit) | 0.8 | 8.0 |
| Cost of debt purchase | 0.0 | 6.9 |
| Other operating cash flows, net 1 | (34.8) | 46.1 |
| Net cash provided by operating activities | \$ 116.2 | \$ 93.0 |

1 Primarily reflects changes to working capital balances.

Net cash provided by operating activities was \$116.2 million during the three months ended March 31, 2019, a \$23.2 million increase compared to the same period of 2018. During the first quarter of 2018, we made a \$100.0 million discretionary contribution to our qualified pension plans that was deductible for tax purposes in 2017 and early retired debt incurring premium and transaction costs of \$6.9 million (which is added back to operating cash flows and reflected as a financing cash outflow).

cash from investing activities

Net cash used for investing activities was \$119.9 million during the first three months of 2019, a \$72.1 million decrease compared to the same period of 2018. During the first three months of 2018, we acquired the following businesses for \$76.3 million of cash consideration: Alabama — aggregates, asphalt mix and construction paving operations; and Texas — aggregates operations. Furthermore, during the first three months of 2018, we divested our ready-mixed concrete operations in Georgia resulting in proceeds of \$11.3 million and a ten-year aggregates supply agreement. During the first quarter of 2019, we invested \$122.0 million in our existing operations compared to the \$128.7 million in the prior year period. Of this \$122.0 million, \$54.5 million was invested in internal growth projects to enhance our distribution capabilities, develop new production sites and enhance existing production facilities and other growth opportunities.

cash from financing activities

Net cash used for financing activities in the first three months of 2019 was \$9.6 million, compared to \$1.1 million used for financing activities in the same period of 2018. The current year includes a net \$45.5 million draw on our bank line of credit. The prior year period includes several refinancing actions as described in the debt section below and a net \$200.0 million draw on our line of credit. Additionally, capital returned to our shareholders decreased by \$51.8 million as higher dividends of \$3.8 million (\$0.31 per share compared to \$0.28 per share) were offset by lower share repurchases of \$55.6 million (no shares in 2019 compared to 492,234 shares @ \$117.47 average price per share).

debt

Certain debt measures are presented below:

| | March 31 dollars in millions 2019 | December 31 2018 | March 31 2018 |
|---------------------------|--------------------------------------|---------------------|-------------------|
| Debt | | | |
| Current maturities | | | |
| of long-term debt | \$ 0.0 | \$ 0.0 | \$ 0.0 |
| Short-term debt | 178.5 | 133.0 | 200.0 |
| Long-term debt | 2,780.6 | 2,779.4 | 2,775.7 |
| Total debt | \$ 2,959.1 | \$ 2,912.4 | \$ 2,975.7 |
| Capital | | | |
| Total debt | \$ 2,959.1 | \$ 2,912.4 | \$ 2,975.7 |
| Equity | 5,217.2 | 5,202.9 | 4,913.2 |
| Total capital | \$ 8,176.3 | \$ 8,115.3 | \$ 7,888.9 |
| Total Debt as a | | | |
| Percentage of | | | |
| Total Capital | 36.2% | 35.9% | 37.7% |
| Weighted-average | | | |
| Effective Interest | | | |
| Rates | | | |
| Line of credit 1 | 1.25% | 1.25% | 1.25% |
| Term debt | 4.55% | 4.56% | 4.30% |
| Fixed versus | | | |
| Floating Interest | | | |
| Rate Debt | | | |
| Fixed-rate debt | 69.3% | 70.4% | 68.8% |
| Floating-rate | | | |
| debt | 30.7% | 29.6% | 31.2% |

1 Reflects the margin above LIBOR for LIBOR-based borrowings; we also paid upfront fees that are amortized to interest expense and pay fees for unused borrowing capacity and standby letters of credit.

Line of credit

Covenants, borrowings, cost ranges and other details are described in Note 7 to the condensed consolidated financial statements. As of March 31, 2019, we were in compliance with the line of credit covenants, the credit margin for LIBOR borrowings was 1.25%, the credit margin for base rate borrowings was 0.25%, and the commitment fee for the unused amount was 0.15%.

As of March 31, 2019, our available borrowing capacity under the line of credit was \$517.0 million. Utilization of the borrowing capacity was as follows:

§ \$178.5 million was borrowed

§ \$54.5 million was used to provide support for outstanding standby letters of credit

TERM DEBT

All of our \$2,846.4 million (face value) of term debt is unsecured. \$2,846.2 million of such debt is governed by three essentially identical indentures that contain customary investment-grade type covenants. The primary covenant in all three indentures limits the amount of secured debt we may incur without ratably securing such debt. As of March 31, 2019, we were in compliance with all term debt covenants.

Throughout 2017 and during the first quarter of 2018, we completed a number of debt refinancing activities in order to extend the maturity of our debt portfolio consistent with the long-lived nature of our asset base. As a result of these actions, the weighted-average term of our debt portfolio has more than doubled to approximately 15 years.

As a result of the first quarter 2018 early debt retirements (see Note 7 to the Condensed Consolidated Financial Statements), we recognized premiums of \$5.6 million, transaction costs of \$1.3 million and noncash expense (acceleration of unamortized deferred transaction costs) of \$0.5 million. The combined charge of \$7.4 million was a component of interest expense for the first quarter of 2018.

CURRENT MATURITIES of long-term debt

As a result of the debt refinancing activities completed throughout 2017 and the first quarter of 2018, current maturities of long-term debt as of March 31, 2019 were insignificant.

debt ratings

Our debt ratings and outlooks as of March 31, 2019 are as follows:

| Rating/Outlook | Date | Description |
|--|-----------|-------------------------|
| Senior Unsecured Term Debt | | |
| Fitch BBB -/stable | 9/24/2018 | rating/outlook affirmed |
| Moodys Aa3 /stable | 3/29/2019 | rating/outlook affirmed |
| Standard & Poor's BBB /stable | 4/4/2019 | rating/outlook affirmed |

Equity

The number of our common stock issuances and purchases for the year-to-date periods ended are as follows:

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| in thousands | December | | |
|---|------------------|------------|------------------|
| | March 31 2019 | 31 2018 | March 31 2018 |
| Common stock shares at January 1, issued and outstanding | 131,762 | 132,324 | 132,324 |
| Common Stock Issuances | | | |
| Share-based compensation plans | 307 | 630 | 458 |
| Common Stock Purchases | | | |
| Purchased and retired | 0 | (1,192) | (492) |
| Common stock shares at end of period, issued and outstanding | 132,069 | 131,762 | 132,290 |

On February 10, 2017, our Board of Directors authorized us to purchase 8,243,243 shares of our common stock to refresh the number of shares we were authorized to purchase to 10,000,000. As of March 31, 2019, there were 8,297,789 shares remaining under the authorization. Depending upon market, business, legal and other conditions, we may purchase shares from time to time through open market (including plans designed to comply with Rule 10b5-1 of the Securities Exchange Act of 1934) and/or privately negotiated transactions. The authorization has no time limit, does not obligate us to purchase any specific number of shares, and may be suspended or discontinued at any time.

The detail of our common stock purchases (all of which were open market purchases) for the year-to-date periods ended are as follows:

| in thousands, except average price | March 31 2019 | December 31 2018 | March 31 2018 |
|------------------------------------|------------------|---------------------|------------------|
| Shares Purchased and Retired | | | |
| Number | 0 | 1,192 | 492 |
| Total purchase price | \$ 0 | \$ 133,983 | \$ 57,824 |
| Average price per share | \$ 0.00 | \$ 112.41 | \$ 117.47 |

There were no shares held in treasury as of March 31, 2019, December 31, 2018 and March 31, 2018.

off-balance sheet arrangements

We have no off-balance sheet arrangements, such as financing or unconsolidated variable interest entities, that either have or are reasonably likely to have a current or future material effect on our:

- § results of operations and financial position
- § capital expenditures
- § liquidity and capital resources

Standby Letters of Credit

For a discussion of our standby letters of credit, see Note 7 to the condensed consolidated financial statements.

Cash Contractual Obligations

Our obligation to make future payments under contracts is presented in our most recent Annual Report on Form 10-K.

CRITICAL ACCOUNTING POLICIES

We follow certain significant accounting policies when preparing our consolidated financial statements. A summary of these policies is included in our Annual Report on Form 10-K for the year ended December 31, 2018 (Form 10-K).

We prepare these financial statements to conform with accounting principles generally accepted in the United States of America. These principles require us to make estimates and judgments that affect our reported amounts of assets, liabilities, revenues and expenses, and the related disclosures of contingent assets and contingent liabilities at the date of the financial statements. We base our estimates on historical experience, current conditions and various other assumptions we believe reasonable under existing circumstances and evaluate these estimates and judgments on an ongoing basis. The results of these estimates form the basis for our judgments about the carrying values of assets and

liabilities as well as identifying and assessing the accounting treatment with respect to commitments and contingencies. Our actual results may materially differ from these estimates.

We believe that the accounting policies described in the “Management's Discussion and Analysis of Financial Condition and Results of Operations” section of our Form 10-K require the most significant judgments and estimates used in the preparation of our consolidated financial statements, so we consider these to be our critical accounting policies. There have been no changes to our critical accounting policies during the three months ended March 31, 2019.

new Accounting standards

For a discussion of the accounting standards recently adopted or pending adoption and the effect such accounting changes will have on our results of operations, financial position or liquidity, see Note 17 to the condensed consolidated financial statements.

FORWARD-LOOKING STATEMENTS

Certain matters discussed in this report, including expectations regarding future performance, contain forward-looking statements that are subject to assumptions, risks and uncertainties that could cause actual results to differ materially from those projected. These assumptions, risks and uncertainties include, but are not limited to:

- § general economic and business conditions
- § the timing and amount of federal, state and local funding for infrastructure
- § changes in the level of spending for private residential and private nonresidential construction
- § changes in our effective tax rate
- § the increasing reliance on information technology infrastructure for our ticketing, procurement, financial statements and other processes could adversely affect operations in the event that the infrastructure does not work as intended or experiences technical difficulties or is subjected to cyber-attacks
- § the impact of the state of the global economy on our businesses and financial condition and access to capital markets
- § the highly competitive nature of the construction materials industry
- § the impact of future regulatory or legislative actions, including those relating to climate change, wetlands, greenhouse gas emissions, the definition of minerals, tax policy or international trade
- § the outcome of pending legal proceedings
- § pricing of our products
- § weather and other natural phenomena, including the impact of climate change
- § energy costs
- § costs of hydrocarbon-based raw materials
- § healthcare costs
- § the amount of long-term debt and interest expense we incur
- § changes in interest rates
- § volatility in pension plan asset values and liabilities, which may require cash contributions to the pension plans
- § the impact of environmental cleanup costs and other liabilities relating to existing and/or divested businesses
- § our ability to secure and permit aggregates reserves in strategically located areas
- § our ability to manage and successfully integrate acquisitions
- § the effect of changes in tax laws, guidance and interpretations
- § significant downturn in the construction industry may result in the impairment of goodwill or long-lived assets
- § changes in technologies, which could disrupt the way we do business and how our products are distributed
- § other assumptions, risks and uncertainties detailed from time to time in our periodic reports filed with the SEC

All forward-looking statements are made as of the date of filing or publication. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except to the extent required by law. Investors are cautioned not to rely unduly on such forward-looking statements when evaluating the information presented in our filings, and are advised to consult any of our future disclosures in filings made with the Securities and Exchange Commission (SEC) and our press releases with regard to our business and consolidated financial position, results of operations and cash flows.

INVESTOR information

We make available on our website, www.vulcanmaterials.com, free of charge, copies of our:

- § Annual Report on Form 10-K
- § Quarterly Reports on Form 10-Q
- § Current Reports on Form 8-K

Our website also includes amendments to those reports filed with or furnished to the Securities and Exchange Commission (SEC) pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 as well as all Forms 3, 4 and 5 filed with the SEC by our executive officers and directors, as soon as the filings are made publicly available by the SEC on its EDGAR database (www.sec.gov).

In addition to accessing copies of our reports online, you may request a copy of our Annual Report on Form 10-K, including financial statements, by writing to Jerry F. Perkins Jr., General Counsel and Secretary, Vulcan Materials Company, 1200 Urban Center Drive, Birmingham, Alabama 35242.

We have a:

- § Business Conduct Policy applicable to all employees and directors
- § Code of Ethics for the CEO and Senior Financial Officers

Copies of the Business Conduct Policy and the Code of Ethics are available on our website under the heading “Corporate Governance.” If we make any amendment to, or waiver of, any provision of the Code of Ethics, we will disclose such information on our website as well as through filings with the SEC.

Our Board of Directors has also adopted:

- § Corporate Governance Guidelines
- § Charters for its Audit, Compensation, Executive, Finance, Governance and Safety, Health & Environmental Affairs Committees

These documents meet all applicable SEC and New York Stock Exchange regulatory requirements.

The Charters of the Audit, Compensation and Governance Committees are available on our website under the heading, "Corporate Governance," or you may request a copy of any of these documents by writing to Jerry F. Perkins Jr., General Counsel and Secretary, Vulcan Materials Company, 1200 Urban Center Drive, Birmingham, Alabama 35242.

Information included on our website is not incorporated into, or otherwise made a part of, this report.

ITEM 3

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

MARKET RISK

We are exposed to certain market risks arising from transactions that are entered into in the normal course of business. To manage these market risks, we may use derivative financial instruments. We do not enter into derivative financial instruments for speculative or trading purposes.

As discussed in the Liquidity and Financial Resources section of Part I, Item 2, we actively manage our capital structure and resources to balance the cost of capital and risk of financial stress. Such activity includes balancing the cost and risk of interest expense. In addition to floating-rate borrowings, we at times use interest rate swaps to manage the mix of fixed-rate and floating-rate debt. Over time, our EBITDA and operating income are positively correlated to floating interest rates (as measured by 3-month LIBOR). As such, our business serves as a natural hedge to rising interest rates, and floating-rate debt serves as a natural hedge to weaker operating results due to general economic weakness.

At March 31, 2019, the estimated fair value of our long-term debt including current maturities was \$2,775.5 million compared to a book value of \$2,780.6 million. The estimated fair value was determined by averaging several asking price quotes for the publicly traded notes and assuming par value for the remainder of the debt. The fair value estimate is based on information available as of the balance sheet date. The effect of a decline in interest rates of one percentage point would increase the fair value of our debt by approximately \$248.2 million.

We are exposed to certain economic risks related to the costs of our pension and other postretirement benefit plans. These economic risks include changes in the discount rate for high-quality bonds and the expected return on plan assets. The impact of a change in these assumptions on our annual pension and other postretirement benefits costs is discussed in our most recent Annual Report on Form 10-K.

ITEM 4

controls and procedures

disclosure controls and procedures

We maintain a system of controls and procedures designed to ensure that information required to be disclosed in reports we file with the SEC is recorded, processed, summarized and reported within the time periods specified by the SEC's rules and forms. These disclosure controls and procedures (as defined in the Securities Exchange Act of 1934 Rules 13a - 15(e) or 15d - 15(e)), include, without limitation, controls and procedures designed to ensure that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, to allow timely decisions regarding required disclosure. Our Chief Executive Officer and Chief Financial Officer, with the participation of other management officials, evaluated the effectiveness of the design and operation of the disclosure controls and procedures as of March 31, 2019. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of March 31, 2019.

No material changes were made during the first quarter of 2019 to our internal controls over financial reporting, nor have there been other factors that materially affect these controls.

part II other information

ITEM 1

legal proceedings

Certain legal proceedings in which we are involved are discussed in Note 12 to the consolidated financial statements and Part I, Item 3 of our Annual Report on Form 10-K for the year ended December 31, 2018. See Note 8 to the condensed consolidated financial statements of this Form 10-Q for a discussion of certain recent developments concerning our legal proceedings.

ITEM 1A

risk factors

There were no material changes to the risk factors disclosed in Part I, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2018.

ITEM 2

UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Purchases of our equity securities during the quarter ended March 31, 2019 are summarized below.

| Total Number of Shares Purchased as | Maximum Number of Shares that |
|---|-------------------------------------|
|---|-------------------------------------|

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| Period | Total Number of Shares Purchased | Average Price Paid Per Share | Part of Publicly Announced Plans or Programs | May Yet Be Purchased Under the Plans or Programs 1 |
|----------------|---|------------------------------------|---|---|
| 2019 | | | | |
| Jan 1 - Jan 31 | 0 | \$ 0.00 | 0 | 8,297,789 |
| Feb 1 - Feb 28 | 0 | \$ 0.00 | 0 | 8,297,789 |
| Mar 1 - Mar 31 | 0 | \$ 0.00 | 0 | 8,297,789 |
| Total | 0 | \$ 0.00 | 0 | |

1 On February 10, 2017, our Board of Directors authorized us to purchase 8,243,243 shares of our common stock to refresh the number of shares we were authorized to purchase to 10,000,000. As of March 31, 2019, there were 8,297,789 shares remaining under the authorization. Depending upon market, business, legal and other conditions, we may make share purchases from time to time through open market (including plans designed to comply with Rule 10b5-1 of the Securities Exchange Act of 1934) and/or privately negotiated transactions. The authorization has no time limit, does not obligate us to purchase any specific number of shares, and may be suspended or discontinued at any time.

We did not have any unregistered sales of equity securities during the first quarter of 2019.

ITEM 4

MINE SAFETY DISCLOSURES

The information concerning mine safety violations or other regulatory matters required by Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 104 of Regulation S-K is included in Exhibit 95 of this report.

ITEM 6

exhibits

| | |
|--------------------|---|
| Exhibit 10.1 | <u>Form of Performance Share Unit Award Agreement (2019) under the Vulcan Materials Company 2016 Omnibus Long-Term Incentive Plan 1</u> |
| Exhibit 31(a) | <u>Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u> |
| Exhibit 31(b) | <u>Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u> |
| Exhibit 32(a) | <u>Certification of Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</u> |
| Exhibit 32(b) | <u>Certification of Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</u> |
| Exhibit 95 | <u>MSHA Citations and Litigation</u> |
| Exhibit 101.INS | XBRL Instance Document |
| Exhibit 101.SCH | XBRL Taxonomy Extension Schema Document |
| Exhibit 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document |
| Exhibit 101.LAB | XBRL Taxonomy Extension Label Linkbase Document |
| Exhibit 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document |
| Exhibit 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document |

1 Management contract or compensatory plan.

Our SEC file number for documents filed with the SEC pursuant to the Securities Exchange Act of 1934, as amended, is 001-33841.

SIGNATURES

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

VULCAN MATERIALS COMPANY

/s/ Randy L. Pigg

Randy L. Pigg

Vice President, Controller

Date May 3, 2019 (Principal Accounting Officer)

/s/ Suzanne H. Wood

Suzanne H. Wood

Senior Vice President and Chief Financial Officer

Date May 3, 2019 (Principal Financial Officer)