

The Doe Run Company • 2022 Sustainability Report

# Performance Data

## Environmental Performance

### Indicator Key

See the full [GRI Index](#) for all the GRI indicators included in our Level C report.

### 301-2 (EN2) Direct Recycled Input Materials (Fiscal Year)

#### Units and Substances Key

Metric Ton(s): mt

Source (mt)	2020	2021	2022
Slag	7,368	7,433	5,299
Batteries (mt of Pb)	87,466	83,706	78,962
Lead-Bearing Material (mt of Pb)	38,867	31,103	36,519
Iron-Containing Material	11,589	11,991	12,263
<b>Total Recycled Inputs<sup>(1)</sup></b>	<b>145,290</b>	<b>134,233</b>	<b>133,043</b>

(1) Materials used vary annually with market demand and plant operating conditions.

### 302-1 (EN3) Energy Consumption (Calendar Year)

#### Units and Substances Key

Gigajoule(s): GJ

Direct Non-Renewable Energy Source	2020	2021	2022
Coke	560,110	540,977	419,493
Explosives	30,499	28,832	27,723
Natural Gas	130,942	65,210 <sup>(1)</sup>	9,928 <sup>(1)</sup>
Petroleum Fuel	256,341	253,057	254,615
Propane	564,155	610,002	616,098 <sup>(2)</sup>
<b>Total Direct Energy Consumption<sup>(1)</sup></b>	<b>1,542,047</b>	<b>1,498,078</b>	<b>1,327,857</b>

Indirect Non-Renewable Energy Source	2020	2021	2022
Electricity	1,538,055	1,518,487	1,495,295
<b>Total Energy Use</b>	<b>3,080,102</b>	<b>3,016,565</b>	<b>2,823,152</b>

(1) 2021 and 2022 drop in natural gas usage is due to the shutdown of the Herculaneum refinery.

(2) 2022 increase in propane usage from 2021 is due to colder weather.

### 302-3 (EN5) Energy Intensity of All Sources (Calendar Year)

#### Units and Substances Key

Metric Ton(s): mt

Gigajoule(s): GJ

Ore: Ore milled at mining operations

Pb: Lead produced at alloying, casting, and secondary smelting and fabricating operations

Division	Units	2020	2021	2022
Southeast Missouri Mining and Milling Division (SEMO)	GJ/mt Ore milled	0.34	0.35	<b>0.35</b>
Metals Division <sup>(1)</sup>	GJ/mt Pb produced	12.1	10.7	<b>11.4<sup>(1)</sup></b>
Fabricated Products Inc. (FPI)	GJ/mt Pb produced	1.1	1.1	<b>1.1</b>

(1) Metals Division included the Herculaneum Facility in 2020 and 2021. Herculaneum ceased refining and metal production in mid-2021.

### 305-1 (EN15) Total Direct Greenhouse Gas Emissions (Calendar Year)

#### Units and Substances Key

Metric Ton(s) of Carbon Dioxide Equivalent: mt CO<sub>2</sub>e

	2020	2021	2022
Scope 1 (direct emissions of Greenhouse Gases, Carbon Disclosure Project, e.g., direct combustion of fuels)	109,775	117,374 <sup>(1)</sup>	<b>104,810<sup>(2)</sup></b>

(1) Due to a conversion error, coke was underreported in 2021. Corrected value reported above.

(2) Coke consumption decreased from 2021 to 2022 due to reduced operation of the blast furnace.

### 305-2 (EN16) Total Indirect Greenhouse Gas Emissions (Calendar Year)

#### Units and Substances Key

Metric Ton(s) of Carbon Dioxide Equivalent: mt CO<sub>2</sub>e

	2020	2021	2022
Scope 2 (emissions from direct purchase of energy, e.g., electricity)	349,287	344,106	<b>342,644</b>

### 305-3 (EN17) Other Relevant Indirect Greenhouse Gas Emissions (Calendar Year)

#### Units and Substances Key

Metric Ton(s) of Carbon Dioxide Equivalent: mt CO<sub>2</sub>e

	2020	2021	2022
Scope 3 (indirect emissions from transportation and employees' commute, etc.)	24,948 <sup>(1)</sup>	26,359 <sup>(1)</sup>	<b>24,935</b>

(1) Due to a conversion factor error, commuter data was underreported in 2020 and 2021. Corrected values are reported above.

### 305-4 (EN18) Greenhouse Gas Emission Intensity

#### Units and Substances Key

Metric Ton(s): mt

Carbon Dioxide Equivalent: CO<sub>2</sub>e

Ore: Ore milled at mining operations

Pb: Lead produced at alloying, casting, and secondary smelting and fabricating operations

Division	Units	2020	2021	2022
Southeast Missouri Mining and Milling Division (SEMO)	mt CO <sub>2</sub> e/mt Ore milled	0.06	0.06	<b>0.06</b>
Metals Division	mt CO <sub>2</sub> e /mt Pb produced	0.8	1.3 <sup>(1)</sup>	<b>1.2</b>
Fabricated Products Inc. (FPI)	mt CO <sub>2</sub> e /mt Pb produced	0.13	0.16	<b>0.15</b>

(1) Due to a conversion error, coke was underreported in 2021. Corrected value reported above.

### 305-7 (EN21) Significant Air Emissions (Calendar Year)

**Units and Substances Key**

Metric Ton(s): mt

Source (mt by type and weight)	2020	2021	2022
Ammonia (NH <sub>3</sub> )	0.05	0.04	0.00
Antimony (Sb)	0.00	0.00	0.00
Arsenic (As)	0.32	0.32	0.27
Cadmium (Cd)	0.04	0.03	0.03
Carbon Monoxide (CO)	16,348.00	13,884.28	19,245.52 <sup>(1)</sup>
Copper (Cu)	0.19	0.18	0.17
Hazardous Air Pollutants (HAP)	0.75	0.74	0.82
Lead (Pb)	4.45	3.21	3.26
Nickel (Ni)	0.03	0.03	0.01
Nitrogen Oxides (NO <sub>x</sub> )	35.42	36.97	29.30
Particulate Matter (PM)	194.82	191.06	151.28
Sulfur Dioxide (SO <sub>2</sub> )	2,388.33	2,373.25	2,024.54
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	0.55	0.55	0.29
Volatile Organic Compounds (VOC)	9.19	8.82	9.12
Zinc (Zn)	0.59	0.55	0.65
<b>Total</b>	<b>18,982.73</b>	<b>16,500.03</b>	<b>21,465.26</b>

(1) Year-to-year carbon monoxide emissions are typical based upon blast furnace operations.

### 306-1 (EN22) Total Water Discharge (Calendar Year)

**Units and Substances Key**

parts per billion: ppb

Source (average ppb)	2020	2021	2022
Lead	5	6	4
Zinc	168	141	188
Copper	2	2	1
<b>Total water discharge (million gallons/year)</b>	<b>21,373</b>	<b>22,107</b>	<b>22,708</b>

## Environmental Spending

### EN31 Total Fiscal Environmental Spending

	2020	2021	2022
<b>Total Capital Spending and Operating Expense</b>	<b>\$33,345,224</b>	<b>\$45,245,647</b>	<b>\$42,969,473</b>
Remediation Spending <sup>(1)</sup>			
Historic Properties	\$1,838,434	\$3,594,810	\$6,139,667
Operating Properties	\$1,595,273	\$1,727,752	\$5,802,410
<b>Total Remediation Spending</b>	<b>\$3,433,707</b>	<b>\$5,322,562</b>	<b>\$11,942,077</b>
<b>Total Fiscal Environmental Spending, Including Remediation</b>	<b>\$36,778,931</b>	<b>\$50,568,209</b>	<b>\$54,911,550</b>

(1) Remediation spending fluctuates based on completed work each year.

## Workforce Summary

### G4-10 (102-8) Number of Employees by Division (Calendar Year)

<b>(number of employees)<sup>(1)</sup></b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Southeast Missouri Mining and Milling Division (SEMO)	675	689	<b>698</b>
Metals Division (Resource Recycling, Herculaneum)	312	321	<b>311</b>
Corporate and Other Non-Operations Employees	123	171 <sup>(2)</sup>	<b>180<sup>(2)</sup></b>
Fabricated Products Inc. (FPI)	35	33	<b>39</b>
<b>Total Number of Employees<sup>(1)</sup></b>	<b>1,145</b>	<b>1,214</b>	<b>1,228</b>

### Male and Female Employees by Division (Calendar Year)

<b>(number of employees)</b>	<b>2020</b>		<b>2021</b>		<b>2022</b>	
	<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
SEMO	621	54	637	52	<b>637</b>	<b>61</b>
Metals Division	288	24	293	28	<b>283</b>	<b>28</b>
Corporate and Other Non-Operations Employees	88	35	120	51	<b>129</b>	<b>51</b>
FPI	32	3	30	3	<b>36</b>	<b>3</b>
<b>Total Number of Employees<sup>(1)</sup></b>	<b>1,029</b>	<b>116</b>	<b>1,080</b>	<b>134</b>	<b>1,085</b>	<b>143</b>

### Number of Employees by Employment Type (Calendar Year)

<b>(number of positions)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Permanent Hourly Positions	815	839	<b>853</b>
Permanent Salary Positions	327	366	<b>366</b>
Temporary Positions	2	8 <sup>(3)</sup>	<b>9</b>
Contracted Positions	1	1	<b>1</b>
<b>Total Number of Employees<sup>(1)</sup></b>	<b>1,145</b>	<b>1,214</b>	<b>1,228</b>

### Male and Female Employees by Employment Type (Calendar Year)

(number of employees)	2020		2021		2022	
	Male	Female	Male	Female	Male	Female
Permanent Hourly Positions	795	20	818	21	<b>827</b>	<b>26</b>
Permanent Salary Positions	231	96	255	111	<b>252</b>	<b>114</b>
Temporary Positions	2	0	6	2	<b>5</b>	<b>3</b>
Contracted Positions	1	0	1	0	<b>1</b>	<b>0</b>
<b>Total Number of Employees<sup>(1)</sup></b>	<b>1,029</b>	<b>116</b>	<b>1,080</b>	<b>134</b>	<b>1,085</b>	<b>143</b>

- (1) Employee counts for G4-10 include all categories of employees as of the end of the calendar year.
- (2) Increase represents additional remediation staff, employees reassigned to corporate and expanding internships in Exploration department. After closing Herculeaneum in 2021, any remaining employees are also counted here as part of the remediation staff.
- (3) Increase represents expanding internships in Exploration department.

### LA1 (401-1) New Employee Hires by Gender (Calendar Year)

Total number<sup>(1)</sup> and rate of new employee hires entering employment during the reporting period broken down by gender. New hires do not necessarily represent an increase in workforce.

	2020		2021		2022	
	Number	Rate	Number	Rate	Number	Rate
Male	113	91.1%	242	84.6%	<b>248</b>	<b>87.3%</b>
Female	11	8.9%	44	15.4%	<b>36</b>	<b>12.7%</b>
<b>Total Number of Employees</b>	<b>124<sup>(2)</sup></b>		<b>286</b>		<b>284</b>	

- (1) Employee counts exclude hiring and termination of temporary employees.
- (2) 2020 new employee hires were reduced due to overall staffing reduction.

### Employees Leaving by Gender (Calendar Year)

Total number<sup>(1)</sup> and rate of employees leaving employment during the reporting period broken down by gender.

	2020		2021		2022	
	Number	Rate	Number	Rate	Number	Rate
Male	151	83.4%	206	88.4%	<b>239</b>	<b>88.8%</b>
Female	30	16.6%	27	11.6%	<b>30</b>	<b>11.2%</b>
<b>Total Number of Employees</b>	<b>181</b>		<b>233</b>		<b>269</b>	

- (1) Employee counts exclude hiring and termination of temporary employees.



### New Employee Hires by Age Group (Calendar Year)

Total number<sup>(1)</sup> and rate of new employee hires entering employment during the reporting period broken down by age group. New hires do not necessarily represent an increase in workforce.

	2020		2021		2022	
	Number	Rate	Number	Rate	Number	Rate
30 or younger	70	56.4%	138	48.2%	<b>136</b>	<b>47.9%</b>
31 to 40	30	24.2%	68	23.8%	<b>74</b>	<b>26.1%</b>
41 to 50	13	10.5%	46	16.1%	<b>45</b>	<b>15.8%</b>
51 and above	11	8.9%	34	11.9%	<b>29</b>	<b>10.2%</b>
<b>Total Number of Employees</b>	<b>124<sup>(2)</sup></b>		<b>286</b>		<b>284</b>	

(1) Employee counts exclude hiring and termination of temporary employees.

(2) 2020 new employee were reduced due to overall staffing reduction.

### Employees Leaving by Age Group (Calendar Year)

Total number<sup>(1)</sup> and rate of employees leaving employment during the reporting period broken down by age group.

	2020		2021		2022	
	Number	Rate	Number	Rate	Number	Rate
30 or younger	45	24.9%	68	29.2%	<b>101</b>	<b>37.5%</b>
31 to 40	37	20.4%	54	23.2%	<b>62</b>	<b>23.1%</b>
41 to 50	19	10.5%	30	12.9%	<b>50</b>	<b>18.6%</b>
51 and above	80	44.2%	81	34.7%	<b>56</b>	<b>20.8%</b>
<b>Total Number of Employees</b>	<b>181</b>		<b>233</b>		<b>269</b>	

(1) Employee counts exclude hiring and termination of temporary employees.

## Health and Safety Performance

### 403-1 (LA6) Occupational Safety and Health

#### Employee Blood-Lead Average

The adjusted Occupational Health and Safety Administration's (OSHA) standard for medical reassignment of an employee is 53 micrograms of lead per deciliter of whole blood ("µg/dL").<sup>(1)</sup> Doe Run has reduced its medical reassignment maximum limit to 25µg/dL. If any Doe Run employee has a blood-lead level that reaches 25 µg/dL, they are temporarily reassigned to duties with lower exposures to lead.

(in µg/dL)	2020	2021	2022
Southeast Missouri Mining and Milling Division (SEMO)	6.68	6.13	<b>6.68</b>
Metals Division	10.46	10.58	<b>11.35</b>
Corporate and Other Non-Operations Employees	N/A <sup>(2)</sup>	3.32	<b>3.52</b>
Fabricated Products Inc. (FPI)	5.60	6.10	<b>5.90</b>
<b>Average<sup>(3)</sup></b>	<b>8.53</b>	<b>7.29</b>	<b>7.64</b>

#### Employee Blood-Lead Data

Doe Run monitors and reports the number of employees with a blood-lead level greater than 19 µg/dL in the calendar year. The adjusted OSHA standard for medical reassignment of an employee is 53 µg/dL.<sup>(1)</sup> Doe Run sets its maximum limit at 25 µg/dL. If any Doe Run employee has a blood-lead level that reaches 25 µg/dL, they are temporarily reassigned to duties with lower exposures to lead.

(number of employees with blood-lead levels >19 µg/dL)	2020	2021	2022
SEMO	1	2	<b>4</b>
Metals Division	13	18	<b>15</b>
Corporate and Other Non-Operations Employees	N/A <sup>(2)</sup>	0	<b>0</b>
FPI	0	0	<b>0</b>
<b>Total</b>	<b>14</b>	<b>20</b>	<b>19</b>

## Total Lost-Time Accidents and Fatalities

According to OSHA, lost time is defined as a nonfatal traumatic injury that causes any loss of time from work beyond the day or shift it occurred, or a nonfatal nontraumatic illness/disease that causes disability at any time. According to the Mine Safety and Health Administration (MSHA), lost time is defined as days which the employee would have worked, but could not because of an occupational injury or an occupational illness. A fatality is not counted as a lost-time accident.

(number of injuries)	2020	2021	2022
SEMO	5	5	1
Metals Division	2	4	3
Corporate and Other Non-Operations Employees	0	0	0
FPI	0	0	0
<b>Total</b>	<b>7</b>	<b>9</b>	<b>4</b>
<b>Total number of work-related fatalities, companywide</b>	<b>0</b>	<b>0</b>	<b>1</b>

## Total OSHA Recordables and MSHA Reportables

Total OSHA recordables and MSHA reportables are incidents that require lost time, restricted duty, prescription medication, involve broken bones or stitches, involve imbedded matter in the eye, or burns of a defined size and severity.

(number of incidents)	2020	2021	2022
SEMO	32	27	24
Metals Division	16	29	24
Corporate and Other Non-Operations Employees	0 <sup>(2)</sup>	2	6
FPI	0	1	2
<b>Total</b>	<b>48</b>	<b>59</b>	<b>56</b>

## Total Case Incident Rate (TCIR)

TCIR is the number of OSHA recordable and MSHA reportable incidents per 200,000 personnel hours worked. OSHA recordables and MSHA reportables are incidents that require lost time, restricted duty, prescription medication, involve broken bones or stitches, involve imbedded matter in the eye, or burns of a defined size and severity.

(TCIR rate)	2020	2021	2022
SEMO	4.64	3.73	3.29
Metals Division	5.28	10.15	7.33
Corporate and Other Non-Operations Employees	0.00 <sup>(2)</sup>	1.90	3.85
FPI	0.00	3.69	5.03
<b>Total Company</b>	<b>3.31</b>	<b>5.24</b>	<b>4.47</b>

- (1) The OSHA General Industry Lead Standard is written in units of  $\mu\text{g}$  of Pb/100g of whole blood. The conversion used is  $1 \text{ ug}/100\text{g} = 1.05 \text{ }\mu\text{g}/\text{dL}$ .
- (2) 2020 data reflects only employees working at corporate headquarters.
- (3) Average is calculated based on the number of employees who receive testing.

## Workforce Training

### 404-1 (LA9) Average Hours of Training Per Employee (Calendar Year)

Hours reported cover only environmental, health and safety training. Additional skills and leadership training, as well as new hire onboarding, took place, but were not recorded.

<b>(number of training hours)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Total number of training hours	15,914	15,343	<b>37,690<sup>(1)</sup></b>
Total number of employees	1,145	1,214 <sup>(2)</sup>	<b>1,228</b>
<b>Average number of training hours per employee</b>	<b>13.90</b>	<b>12.64<sup>(2)</sup></b>	<b>30.69</b>

- (1) Training hours increased due to a change in the annual training schedule, as well as additional safety training and education in mobile equipment and HAZWOPER, as well as new hire safety and environmental training.
- (2) The total number of employees was reported inconsistently in 2021. It has been updated with the correct employee total and average number of training hours per employee.

## Economic Impact

### 201-1 (EC1) Financial Highlights (Fiscal Year)

<b>(dollars in thousands)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Property taxes	\$6,869	\$6,675	<b>\$6,635</b>
Compensation	\$115,154	\$115,027	<b>\$120,107</b>
Community investment <sup>(1)</sup>	\$173	\$155	<b>\$111</b>
Environmental spending	\$36,779	\$50,568	<b>\$54,912</b>
Research and development	\$4,494	\$3,562	<b>\$5,548</b>
Royalties to governments	\$6,819	\$9,110	<b>\$9,933</b>
Capital spending (excluding environmental capital expenditures)	\$14,783	\$18,778	<b>\$32,583</b>

(1) Community investment includes donations, scholarships and tuition reimbursement.