INDEPENDENT LIMITED ASSURANCE STATEMENT



To: The Stakeholders of Amgen

Introduction and objectives of work

Apex Companies, LLC (Apex) has been engaged by Amgen to provide limited assurance of selected environmental and safety data. This Assurance Statement applies to the Subject Matter included within the scope of work described below.

This information and its presentation in Amgen's 2019 Responsibility Highlights Report ('the Report') are the sole responsibility of the management of Amgen. Apex was not involved in the drafting of the Report. Our sole responsibility was to provide independent assurance on the accuracy of the Subject Matter.

Scope of work

The scope of our work was limited to assurance over the following environmental and safety data included within Amgen's 2019 Responsibility Highlights Report ('the Report') for the period of calendar year 2019 (the 'Subject Matter'):

- Energy Use (Total, Direct and Indirect)
- Greenhouse Gas (GHG) Emissions (Scope 1, Scope 2 location-based and market-based, Scope 3, Upstream Categories 1 7)
- Water Withdrawal and Fate
- Waste Quantities and Disposition
- Recordable Case Rate
- Days Away Case Rate
- Environmental Notices of Violation

Data and information supporting the subject matter were in some cases estimated rather than historical in nature.

Our assurance does not extend to any other information included in Amgen's 2019 Responsibility Highlights Report.

Reporting Boundaries

The following are the boundaries used by Amgen for reporting sustainability data:

- Operational Control
- Energy, GHG emissions, Recordable Case Rate, Days Away Case Rate and Environmental Notices of Violation: Amgen facilities located worldwide
- Water and Waste Metrics: Seventeen manufacturing, research and development, and distribution facilities where data are collected, representing approximately 88 percent of Amgen's building square footage. The remaining facilities are primarily administrative offices.

Reporting Criteria

The Subject Matter needs to be read and understood together with the description of the Subject Matter reporting criteria in the Report. The reporting criteria for greenhouse gas emissions was the World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) Greenhouse Gas Protocol Corporate Accounting and Reporting Standard.

Limitations and Exclusions

Excluded from the scope of our work is any verification of information relating to:

 Text or other written statements associated with Amgen's 2019 Responsibility Highlights Report and amgen.com Activities outside the defined verification period of Calendar Year 2019

This limited assurance engagement relies on a risk based selected sample of sustainability data and the associated limitations that this entails. This independent statement should not be relied upon to detect all errors, omissions or misstatements that may exist.

Responsibilities

This preparation and presentation of the Subject Matter in the Report are the sole responsibility of the management of Amgen.

Apex was not involved in the drafting of the Report or of the Reporting Criteria. Our responsibilities were to:

- obtain limited assurance about whether the Subject Matter has been prepared in accordance with the Reporting Criteria;
- form an independent conclusion based on the assurance procedures performed and evidence obtained; and
- · report our conclusions to the Directors of Amgen.

Assessment Standards

We performed our work in accordance with Apex's standard procedures and guidelines for external Assurance of Sustainability Reports and International Standard on Assurance Engagements (ISAE) 3000 Revised, Assurance Engagements Other than Audits or Reviews of Historical Financial Information (effective for assurance reports dated on or after Dec. 15, 2015), issued by the International Auditing and Assurance Standards Board. Greenhouse Gas Emissions were verified in accordance with and ISO Standard 14064-3 Greenhouse Gases - Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas Assertions. A materiality threshold of ±5-percent was set for the assurance process.

Summary of Work Performed

As part of our independent verification, our work included:

- 1. Assessing the appropriateness of the Reporting Criteria for the Subject Matter;
- 2. Conducting interviews with relevant personnel at Amgen regarding data collection and reporting systems;
- Reviewing the data collection and consolidation processes used to compile Subject Matter, including assessing assumptions made, and the data scope and reporting boundaries:
- 4. Reviewing documentary evidence provided by Amgen;
- 5. Agreeing a selection of the Subject Matter to the corresponding source documentation both remotely and during site visits to facilities located in West Greenwich, Rhode Island and Cambridge, Massachusetts;
- 6. Reviewing Amgen's systems for quantitative data aggregation and analysis; and
- 7. Assessing the disclosure and presentation of the Subject Matter to ensure consistency with assured information.

Conclusion

On the basis of our methodology and the activities described above:

- Nothing has come to our attention to indicate that the Subject Matter has not been properly prepared, in all material respects, in accordance with the Reporting Criteria; and
- It is our opinion that Amgen has established appropriate systems for the collection, aggregation and analysis of quantitative data within the scope of this assurance.

A summary of data within the scope of assurance for 2019 is attached.

Statement of Independence, Integrity and Competence

Apex is an independent professional services company that specializes in Health, Safety, Social and Environmental management services including assurance with over 30 years history in providing these services.

Apex has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

No member of the assurance team has a business relationship with Amgen, its Directors or Managers beyond that required of this assignment. We have conducted this verification independently, and there has been no conflict of interest.

The assurance team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of Apex's standard methodology for the verification of greenhouse gas emissions data.

Lisa S. Barnes, Lead Verifier Apex Companies, LLC Lakewood, Colorado John A. Rohde, Technical Reviewer Apex Companies, LLC Lakewood, Colorado

May 8, 2020

Summary of 2019 Data Subject to Assurance

Metric Type	Units ⁽¹⁾	2019 ⁽²⁾
Total Combustion On-site (Direct)	1,000 GJ	1,543
Natural Gas	1,000 GJ	1,009
Diesel	1,000 GJ	533
Propane	1,000 GJ	1.2
Total Purchased Energy (Indirect)	1,000 GJ	1,551
Fossil Fuel	1,000 GJ	894
Hydro	1,000 GJ	133
Nuclear	1,000 GJ	96
Renewables	1,000 GJ	347
Nonspecified Tatal Francisco	1,000 GJ	81 3,094
Total Energy	1,000 GJ	3,094
Total Carbon Combustion On-site (Scope 1 GHG emissions)	1,000 MT CO2Eq	89
Natural Gas	1,000 MT CO2Eq	51
Diesel	1,000 MT CO2Eq	37
Propane	1,000 MT CO2Eq	0.1
Total Carbon Purchased Energy (Scope 2 GHG emissions - market based)	1,000 MT CO2Eq	160
Electricity	1,000 MT CO2Eq	160
Steam	1,000 MT CO2Eq	0.6
Total Carbon Purchased Energy (Scope 2 GHG emissions -	,	174
location based)	1,000 MT CO2Eq	400
Electricity	1,000 MT CO2Eq	168
Steam	1,000 MT CO2Eq	6.3
Total Carbon From Energy	1,000 MT CO2Eq	249
Total Carbon Normalized to Total Energy	MTCO2Eq/GJ	0.080
Carbon Sales Fleet (Scope 1)	1,000 MT CO2Eq	40
Carbon Executive Air Fleet (Scope 1)	1,000 MT CO2Eq	4.4
Carbon From Fugitive Refrigerant Emissions (Scope 1)	1,000 MT CO2Eq	1.3
Carbon From Cell Respiration and Purchased Carbon Dioxide Emissions (Scope 1)	1,000 MT CO2Eq	1.8
Carbon from Purchased Goods and Services (Scope 3: Category 1)	1,000 MT CO2Eq	2,324
Carbon from Capital Goods (Scope 3: Category 2)	1,000 MT CO2Eq	258
Carbon from Fuel- and Energy-Related Activities (Scope 3: Category 3)	1,000 MT CO2Eq	53
Carbon from Upstream Transportation & Distribution (Scope 3: Category 4)	1,000 MT CO2Eq	23
Carbon from Waste Generated in Operations (Scope 3: Category 5)	1,000 MT CO2Eq	3.5
Carbon from Business Travel (Scope 3: Category 6)	1,000 MT CO2Eq	56
Carbon from Staff Commuting (Scope 3: Category 7)	1,000 MT CO2Eq	56
Total Water Withdrawal	1,000 CM	2,146
Municipal	1,000 CM	2,129
Other - (Reservoir) Trucked In	1,000 CM	0
Ground	1,000 CM	17

Metric Type	Units ⁽¹⁾	2019 ⁽²⁾
Water Fate	1,000 CM	2,146
Consumed into Products	1,000 CM	31
Lost to Evaporation	1,000 CM	546
Discharged to Treatment	1,000 CM	1,379
Discharged Directly to Environment	1,000 CM	191
Recycled	1,000 CM	548
Percentage of Water Recycled per Total Water Withdrawal	%	26%
Waste Recycling Rate (includes routine waste recycled, reused and composted)	%	48%
Total Routine Waste	MT	9,818
Routine Hazardous Waste	MT	2,179
Recycled	MT	230
Incinerated for Energy Recovery	MT	988
Incinerated Not for Energy Recovery	MT	855
Landfilled	MT	78
Treated	MT	28
Routine Nonhazardous Waste	MT	7,640
Composted	MT	745
Reused	MT	249
Recycled	MT	3,522
Incinerated for Energy Recovery	MT	594
Incinerated Not for Energy Recovery	MT	183
Landfilled	MT	2,302
Treated	MT	45
Total Nonroutine Waste	MT	3,128
Injury and Illness Rate	Recordable Cases per 100 Employees	0.31
Lost Day Case rate	Lost Day Cases per 100 Employees	0.12
Environmental Notices of Violation (NOVs)	number	2

(1) Unit abbreviations:

GJ= gigajoules

MT CO2Eq = metric tons of carbon dioxide equivalents

CM = cubic meters

MT = metric tons

⁽²⁾ Numbers in this table have been rounded