ELG Database Help

1. Introduction

The Effluent Limitations Guidelines and Standards (ELG) database allows easy access information relevant to the Effluent Guidelines Program. The ELG database includes ELGs as promulgated in [Title 40 of the Code of Federal Regulations (CFR)](#), CFR citation history (record of dates and federal register notices (FRN) with the corresponding CFR section), and readily available technology bases/pollutant long-term averages associated with the promulgated regulations. Figure 1 presents the hierarchy and data flow of information in the ELG database. See the Glossary for definitions of terms used in the ELG database.

Each section in this document corresponds to a search or results page in the ELG database. The Help link on each search/results page will take you to the applicable section for further details. Attachment A at the end of the guide includes the following reference tables:

- **Table A-1: Type of Limitations** – To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications. This table presents the Type of Limitation displayed in the ELG database and the CFR-specified limitations that fall into the broader classification.

- **Table A-2: Levels of Control** – Defines the levels of control under the Clean Water Act for direct and indirect discharges and for new and existing dischargers.

- **Table A-3: Limitation Flags** – For some pollutant limitations, flags are included in the ELG database to provide further context before use of the numeric limitation value.

- **Table A-4: Pollutants in the ELG Database by Pollutant Category** – Identifies the pollutants in the ELG database for Pollutant Category searches (see Section 7). Categories include Clean Water Act (CWA) priority pollutants, Nitrogen, Phosphorus, Conventional pollutants, Solids, and Metals.

Disclaimer: The EPA intends for the ELG database to be solely used to access information on the effluent guidelines program via guided and customized searches. The ELG database contains information on the requirements of this program, but it does not replace the Code of Federal Regulations which is the codification of the general and permanent rules published in the Federal Register. Therefore, this tool is not an official legal edition of the CFR.
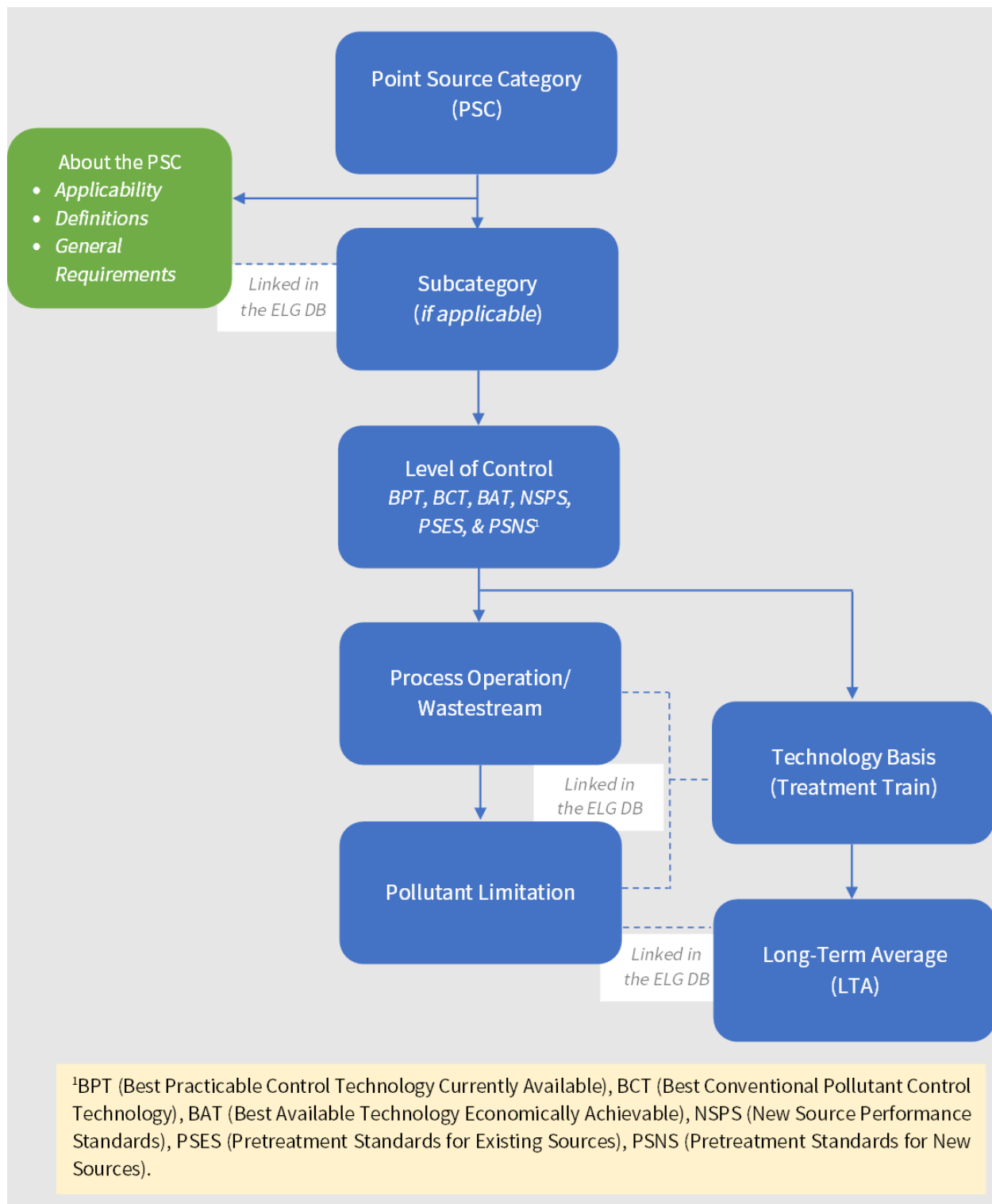
Figure 1. ELG Database Hierarchy and Data Flow

The flowchart contains the following elements:

Point Source Category (PSC)
→ Subcategory (*if applicable*)
→ Level of Control — BPT, BCT, BAT, NSPS, PSES, & PSNS[1]
→ Process Operation/Wastestream
→ Pollutant Limitation

Level of Control also branches to:
Technology Basis (Treatment Train)
→ Long-Term Average (LTA)

About the PSC
- *Applicability*
- *Definitions*
- *General Requirements*

Linked in the ELG DB

[1]BPT (Best Practicable Control Technology Currently Available), BCT (Best Conventional Pollutant Control Technology), BAT (Best Available Technology Economically Achievable), NSPS (New Source Performance Standards), PSES (Pretreatment Standards for Existing Sources), PSNS (Pretreatment Standards for New Sources).

2. ELG Database Search Help

Searches from the ELG Database Home Page include guided searches by specifying the point source category, pollutant, or treatment technology; by customized multi-criteria searches, or by keyword searches. Use the tabs to select the type of search and the search criteria.

Guided searches include the following:

- **Point Source Category (PSC)** – Industrial wastewater category of facilities that are grouped by specific industrial process operations and discharge industrial wastewater from a point source (e.g., pipe). Ordered by Title 40 CFR section number and title.

- **Pollutant**
  - *Pollutant* – Parameters associated with point source categories, limitations, long-term averages, and the corresponding technology bases. Listed by common name (e.g., "Arsenic" includes total arsenic).
  - *Pollutant Category* – Group of pollutants associated with point source categories, pollutant limitations, long-term averages, and the corresponding technology bases. Searches include CWA priority pollutants, Nitrogen, Phosphorus, Conventional pollutants, Solids, and Metals. See Table A-4.

- **Treatment**
  - *Treatment Technology* – Processes/operations that remove or reduce pollutants in wastewater used as the basis for the ELGs.
  - *Treatment Technology Category* – Group of technologies associated with point source categories, pollutant limitations, long-term averages, and the corresponding technology bases. Searches include Biological, Chemical, Filtration, Membrane, Physical (not elsewhere classified), and Sorption.

> **Disclaimer**: Treatment technologies are classified to the most discrete level possible according to the descriptions in the underlying regulatory development documents. Results for broad treatment technologies (e.g., biological treatment) only include those technologies that cannot be more specifically classified.

The **Multi-Criteria Search** allows access to pollutant limitations by specifying more than one search criteria. To use the **Multi-Criteria Search**, select one or more criteria to narrow the search results:

- **PSCs** – Select one or more PSCs (listed by Title 40 CFR section number and title) or search by industry code (North American Industry Classification System (NAICS) code or Standard Industrial Classification (SIC) code).

  > **Disclaimer**: The NAICS and SIC codes listed for a PSC are the codes generally associated with the industry, but the applicability statement(s) in the CFR are the legal basis for the regulated facilities.

  > **Note**: The pollutant limitation range search function includes concentration-based limitations as presented in the CFR. The units of measurement used for a pollutant limitation may differ across PSCs.

- **Pollutant** – Select an individual pollutant or pollutant category (i.e., CWA priority pollutants, Nitrogen, Phosphorus, Conventional pollutants, Solids, and Metals - see Table A-4) or specify a range of numeric values associated with the pollutant limitations to narrow results.

- **Treatment** – Select an individual treatment technology or treatment technology category (i.e., Biological, Chemical, Filtration, Membrane, Physical (not elsewhere classified), and Sorption).

The **Keyword Search** allows access to pollutant limitations by typing in keywords or phrases to search the ELG database. Press enter after typing in each keyword or phrase to save that word or phrase. For multiple words, select OR to return results (i.e., pollutant limitations) that contain any keyword and select AND to return results that contain all keywords.

3. Point Source Category (PSC) Results Help

The PSC Results page presents the list of pollutants regulated for a corresponding PSC and the list of the treatment technologies included in the technology basis for the regulations.

A PSC may be divided into multiple Subcategories (or Subparts). Select the Subcategory (or Subpart) of interest in the pick list at the bottom of the page to display process operations and wastestreams for each level of control (see Table A-2). Similar to the PSC results, the Subcategory Results for each level of control presents the pollutants and treatment technologies associated with the selected subcategory.

Use the tabs along the top of the Subcategory Results to access the following information by level of control:

- **CFR Section** – CFR reference section associated with the process operation or wastestream.

- **Process Operation/Wastestream** – Short title or name of the process operation or wastestream to which limitations apply. The terms process operation and wastestream are used interchangeably. Some limitations may apply to discharges from a specific process operation. Other limitations may apply to wastestreams that are not defined by a particular process operation.

- **Other Process/Wastestream Detail(s)** – Additional details required to identify the specific process operation or wastestream to which the limitations apply.

- **Zero Discharge** – Yes/No field. Checkmark (Yes) indicates that the ELGs require no discharge from the process operation or no discharge of the wastestream.

- **BMPs (Best Management Practices)** – Yes/No field. Checkmark (Yes) indicates that BMPs are included in the ELGs for this PSC, Subcategory, Process Operation/Wastestream.

- **Alternative Requirement** – Yes/No field. Checkmark (Yes) indicates that dischargers have more than one option to meet the ELG requirements. VIP indicates a voluntary incentives program.

> **Information Icon for the Process Operation/Wastestream**
> Select the information icon to access the following details:
> - *Description* – Description of the process operation/ wastestream.
> - *Limit Calculation Description* – Narrative details regarding how to calculate or interpret the limitations. This field is not applicable to all process operations/ wastestreams.
> - *Notes* – Additional information from the CFR regarding the specific process operation/ wastestream that are essential for understanding the process operation/ wastestream or associated limitations.
>
> Use the **eCFR** link to access the applicable eCFR section (external site).

- **No Limitations** – Yes/No field. Checkmark (Yes) indicates that the EPA did not promulgate numeric or narrative pollutant limitations associated with this PSC, Subcategory, and Process Operation/Wastestream.

> **Note**: Not all PSCs and/or Subcategories have requirements for all levels of control. If there are no requirements for a level of control, "No data available" will be shown in the results.

The PSC Results page includes links to the following information in the ELG database:

- Link to details on applicability, definitions, best management practices, monitoring requirements, and other general provisions applicable to the point source category and subcategories (About 40 CFR).
- Link to the pollutant limitation(s) associated with the PSC, Subcategory, and Process Operation/Wastestream (if applicable) (Go to Limitations). See Section 5.
- External link to the eCFR (eCFR).

4. About 40 CFR: Applicability, General Requirements, and Definitions Help

The About 40 CFR Results page presents applicability, definitions, best management practices, monitoring requirements, and other general provisions applicable to the PSC (presented first) and subcategories. Click on the tabs to view the type of CFR text of interest at the PSC and Subcategory level (if applicable). All PSCs and Subcategories include an Applicability tab. If there is no applicability text in the CFR, the "No Data Available" will be shown in the results.

> **Note**: Not all PSCs and/or Subcategories have applicability, definitions, best management practices, monitoring requirements, and/or other general provisions in the CFR.

The initial promulgation date for the PSC, the latest promulgation date for the PSC, and industries typically associated with the PSC by NAICS code (North American Industry Classification System) and SIC code (Standard Industrial Classification) are presented at the top of the results page.

> **Disclaimer**: The NAICS and SIC codes listed for a PSC are the codes generally associated with the industry but the applicability statement(s) in the CFR are the legal basis for the regulated facilities.

The About 40 CFR Results page includes a link to the CFR citation history. The CFR citation history lists all the CFR subsections, description (i.e., title), publication date when initial and subsequent promulgations occurred, and the corresponding Federal Registration Notices (FRNs). Two FRNs are included in the results: 1) the FRN as cited in the CFR and 2) the citation for the first page of the FRN. Reserved CFR subsections do not have publication dates or corresponding FRNs.

5. Limitation Results Help (Accessing from the Subcategory Results Page)

The Limitations Results page presents the search criteria (as selected on the Subcategory Results page) at the top of the page and a table of results based on the search criteria. Limitations in the CFR can be numeric or narrative requirements. The Limitation Results page displays the following:

- **Pollutant** – Parameter to which a limitation applies.

- **Type of Limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Select the information icon to access the CFR-specified duration.*

- **Value** – Pollutant limitation including any limitation flags (see Table A-3). In some cases, an equation may be used for calculating the pollutant limit and details are provided in the limitation requirement description field (see the information icon for Type of Limitation).

- **Units** – Units of measure associated with the pollutant limitation.

- **Limitation Basis** – Tool to sort the numerical limitations in the ELG database. The ELG may require conversion of concentration-based to mass-based limitations. *See the Type of Limitation information or CFR for more details.*

The Limitation Results page includes links to the following information in the ELG database:

> **Information Icon for the Type of Limitation**
> Select the information icon to access the following details:
> - *CFR-specified Duration*.
> - *Limit Calculation Description* – Narrative details regarding how to calculate or interpret the limitations. This field is not applicable to all process operations/ wastestreams.
> - *Limit Requirement Description* – Narrative limits, limitation equations, and additional information about the limitation requirements, including a description of any qualifier (i.e., limitation flag). Also includes any CFR text for no detectable amount (ND) limitations.
> - *Notes* – Additional notes that may help in the interpretation of limitations.

> **Sort Feature and Filter Fields for Limitation Results**
> Use the arrows next to the table headings to sort the results. The results can also be filtered by *Type of Limitation* and/or *Limitation Basis* using the filter boxes. To remove the filter, re-select the entry.

- Link to the long-term average (LTA) associated with the pollutant limitation (Go to LTA). If no LTA data are available, no link will be shown. See Section 12.

- Link to download the results displayed on the Limitations Results page to an MS Excel file (Download limitations).

6.   Pollutant Results Help

The Pollutant Results page presents the number (count) of PSCs with corresponding pollutant regulations and a range of pollutant limitation concentrations across the PSCs.

> **Note**: The range of pollutant limitations across PSCs includes concentration-based limitations for the most common type of limitations (Daily maximum, Maximum monthly average, Monthly average (see Table A-1)) in the ELG database.

The Pollutant Results table provides the following information by PSC:

- **Subcategories** – Subcategories with corresponding pollutant regulations.
- **Range of pollutant limitations** – Minimum and maximum numeric limitations for the pollutant by unit of measurement and type of limitation. Range of pollutant limitations within a PSC include both concentration-based and quantity-based limitations and excludes values in the CFR that include one of the following limitation flags: 1) percent reduction in pollutant loading (PER), 2) additive adjustment to the pollutant limitation (ADJUST), 3) no film or sheen on surface of the receiving water (NOSHEEN), or 4) multiply limitation by a factor (X by Factor).
- **Units** – Units of measure associated with the pollutant limitation.
- **Type of limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). This field also indicates whether the limitation is concentration-based or quantity-based. *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Hover over the type of limitation field to see the CFR-specified duration.*

The Pollutant Results page includes links to the following information in the ELG database:

- Link to the pollutant limitation(s) associated with the PSC (if applicable) (Go to Limitations). See Section 8.
- Link to compare limitations for multiple subcategories by selecting one or more PSCs of interest using the checkboxes in the left-hand column and then selecting the link at the top of the table. The results present the pollutant limitations associated with the selected PSCs (Compare limitations for selected PSCs). See Section 8.
- Link to download the results displayed on the Pollutant Results page to an MS Excel file (Download limitations).

7. Pollutant Category Results Help

The Pollutant Category Results page presents the number (count) of PSCs with corresponding pollutant regulations for one or more pollutant in the category (see Table A-4).

The Pollutant Category Results table provides the following information by pollutant:

- **PSC** – PSCs with corresponding pollutant regulations.
- **Subcategories** – Subcategories with corresponding pollutant regulations.
- **Range of pollutant limitations** – Minimum and maximum numeric limitations for the pollutant by unit of measurement and type of limitation. Range of pollutant limitations within a PSC include both concentration-based and quantity-based limitations and excludes values in the CFR that include one of the following limitation flags: 1) percent reduction in pollutant loading (PER), 2) additive adjustment to the pollutant limitation (ADJUST), 3) no film or sheen on surface of the receiving water (NOSHEEN), or 4) multiply limitation by a factor (X by Factor).
- **Units** – Units of measure associated with the pollutant limitation.
- **Type of limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). This field also indicates whether the limitation is concentration-based or quantity-based. *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Hover over* the type of limitation field to see the CFR-specified duration.

The Pollutant Category Results page includes links to the following information in the ELG database:

- Link to the pollutant limitation(s) associated with the PSC (if applicable) (Go to Limitations). See Section 8.
- Link to download the results displayed on the Pollutant Category Results page to an MS Excel file (Download limitations).

8. Limitation Results Help (Accessing from the Pollutant or Pollutant Category Results Page)

The Limitations Results page presents the pollutant limitations associated PSC selected on the Pollutant Results Page (or Pollutant Category Results page). Limitations are presented by Level of Control (see Table A-2). Use the tabs along the top of the Limitation Results to access the following information by level of control:

- **Pollutant** – Parameter to which a limitation applies.

- **Subpart** – Subcategory corresponding to the pollutant limitation. *If you are using the PSC Comparison feature, the CFR section number will also be listed.*

- **Process Operation/Wastestream** – Short title or name of the process operation or wastestream to which limitations apply. The terms process operation and wastestream are used interchangeably. Some limitations may apply to discharges from a specific process operation. Other limitations may apply to wastestreams that are not defined by a particular process operation.

- **Other Process/Wastestream Detail(s)** – Additional details required to identify the specific process operation or wastestream to which the limitations apply.

- **Type of Limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Select the information icon to access the CFR-specified duration.*

- **Value** – Pollutant limitation including any limitation flags (see Table A-3). In some cases, an equation may be used for calculating the pollutant limit and details are provided in the limitation requirement description field (see the information icon for Type of Limitation).

- **Units** – Units of measure associated with the pollutant limitation.

> **Information Icon for the Type of Limitation**
>
> Select the information icon to access the following details:
> - *CFR-specified Duration.*
> - *Limit Calculation Description* – Narrative details regarding how to calculate or interpret the limitations. This field is not applicable to all process operations/ wastestreams.
> - *Limit Requirement Description* – Narrative limits, limitation equations, and additional information about the limitation requirements, including a description of any qualifier (i.e., limitation flag). Also includes any CFR text for no detectable amount (ND) limitations.
> - *Notes* – Additional notes that may help in the interpretation of limitations.

- **Limitation Basis** – Tool to sort the numerical limitations in the ELG database. The ELG may require conversion of concentration-based to mass-based limitations. *See the Type of Limitation information or CFR for more details.*

> **Sort Feature and Filter Fields for Limitation Results**
> Use the arrows next to the table headings to sort the results. The results can also be filtered by *Type of Limitation* and/or *Limitation Basis* using the filter boxes. To remove the filter, re-select the entry.

The Limitation Results page includes links to the following information in the ELG database:

- Link to the long-term average (LTA) associated with the pollutant limitation (Go to LTA). If no LTA data are available, no link will be shown. See Section 12.

- Link to download the results displayed on the Limitations Results page to an MS Excel file (Download limitations).

9. Treatment Technology Results and Treatment Technology Category Results Help

The Treatment Technology Results page presents a description of the treatment technology at the top of the page. Descriptions of the treatment technology categories are included in the Glossary.

Select one or more criteria from the three dropdown menus: PSCs, Pollutants, and Treatment Trains. The table below the dropdown menus will automatically update after each criterion is selected. Click the "x" next to a criterion to remove it from the search results.

The numbers in parentheses next to the PSCs, Pollutants, and Treatment Trains dropdown menu titles indicate the total number of records in the ELG database related to the selected treatment technology (or category) for that search criteria.

The Treatment Technology Results (or Treatment Technology Category Results) table provides the following information by pollutant limitation:

- **PSC** – PSC where the technology basis for the pollutant limitation includes the treatment technology (or treatment technology in the category selected).

- **CFR Section** – CFR reference section associated with the process operation or wastestream.

- **Subpart** – Subcategory where the technology basis for the pollutant limitation includes the treatment technology (or treatment technology in the category selected).

- **Level of Control** – See Table A-2.

- **Pollutant** – Parameters where the technology basis for the pollutant limitation includes the treatment technology (or treatment technology in the category selected).

> **Sort Feature and Filter Fields for Treatment Technology Results**
> Use the arrows next to the table headings to sort the results. The results can also be filtered by *Level of Control* and/or *Type of Limitation* using the filter boxes. To remove the filter, re-select the entry.

- **Process** – Short title or name of the process operation or wastestream to which limitations apply. The terms process operation and wastestream are used interchangeably. Some limitations may apply to discharges from a specific process operation. Other limitations may apply to wastestreams that are not defined by a particular process operation. *Select the information icon to access a description of the process operation/wastestream*.

- **Treatment Train** – One or more treatment technology steps that are the technology basis for the pollutant limitation. *Select the information icon to access a description and any notes associated with the treatment train. Page numbers refer to the*

reference cited at the end of the entry (e.g., technical development document number listed in parentheses).

- **Value** – Pollutant limitation including any limitation flags (see Table A-3). In some cases, an equation may be used for calculating the pollutant limit and details are provided in the limitation requirement description field (see Section 5).

- **Units** – Units of measure associated with the pollutant limitation.

- **Type of Limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). This field also indicates whether the limitation is concentration-based or quantity-based. *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Select the information icon to access the CFR-specified duration.*

> **Disclaimer**: The technology basis information in the ELG database is not comprehensive across all Point Source Categories, Levels of Control, and Process Operations/ Wastestreams (Process). The results displayed on the Treatment Technology Results page and Treatment Technology Category Results page include the technology bases for which the EPA was able to identify readily available information.
> Treatment technologies are classified to the most discrete level possible according to the descriptions in the underlying regulatory development documents. Results for broad treatment technologies (e.g., biological treatment) only include those technologies that cannot be more specifically classified.

The Treatment Technology Results (or Treatment Technology Category Results) page includes links to the following information in the ELG database:

- Link to the long-term average (LTA) associated with the pollutant limitation and technology basis (Go to LTA). If no LTA data are available, no link will be shown. See Section 12.

- Link to download the results displayed on the Treatment Technology Results page to an MS Excel file (Download limitations).

10. Multi-Criteria Search Results Help

The Multi-Criteria Search presents specific pollutant limitation results by selecting one or more criteria from the three dropdown menus: PSCs, Pollutants, and Treatment Trains. The table below the dropdown menus will automatically update after each criterion is selected. Click the "x" next to a criterion to remove it from the search results.

The numbers in parentheses next to the PSCs, Pollutants, and Treatment Trains dropdown menu titles indicate the total number of records in the ELG database related to the search criteria (displayed at the top of the page).

The Multi-Criteria Search Results table provides the following information by pollutant limitation:

- **PSC** – Selected PSC, PSC corresponding to selected pollutant or pollutant category, or PSC where the technology basis for one or more pollutant limitation includes the treatment technology (or treatment technology in the category) selected.

- **CFR Section** – CFR reference section associated with the process operation or wastestream.

- **Subpart** – Subcategory corresponding to the pollutant regulation.

- **Level of Control** – See Table A-2.

- **Pollutant** – Parameter to which a limitation applies.

> **Sort Feature and Filter Fields for Multi-Criteria Search Results**
> Use the arrows next to the table headings to sort the results. The results can also be filtered by *Level of Control* and/or *Type of Limitation* using the filter boxes. To remove the filter, re-select the entry.

- **Process** - Short title or name of the process operation or wastestream to which limitations apply. The terms process operation and wastestream are used interchangeably. Some limitations may apply to discharges from a specific process operation. Other limitations may apply to wastestreams that are not defined by a particular process operation. *Select the information icon to access a description of the process operation/wastestream.*

- **Treatment Train** - One or more treatment technology steps that are the technology basis for the pollutant limitation. *Select the information icon to access a description and any notes associated with the treatment train. Page numbers refer to the reference cited at the end of the entry (e.g., technical development document number listed in parentheses).*

- **Value** – Pollutant limitation including any limitation flags (see Table A-3). In some cases, an equation may be used for calculating the pollutant limit and details are provided in the limitation requirement description field (see Section 5).

- **Units** - Units of measure associated with the pollutant limitation.

- **Type of Limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). This field also indicates whether the limitation is concentration-based or quantity-based. *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Select the information icon to access the CFR-specified duration.*

The Multi-Criteria Search Results page includes links to the following information in the ELG database:

- Link to the long-term average (LTA) associated with the pollutant limitation (Go to LTA). If no LTA data are available, no link will be shown. See Section 12.

- Link to download the results displayed on the Multi-Criteria Search Results page to an MS Excel file (Download limitations).

11. Keyword Results Help

The Keyword Results page presents the search criteria (i.e., keyword or phrase) at the top of the page, a summary of the keyword "hits" in the ELG database for associated pollutant limitations, and a table of the results.

The keyword "hits" include the following:

- **PSC** – Results are based on searches of the PSC name, subcategory name, and applicability sections of the CFR fields in the ELG database.
- **Process Operation(s)/Wastestream(s)** – Results are based on searches of the process operation/wastestream titles, descriptions, details, and notes and the limitation calculation description fields in the ELG database.
- **Pollutant(s)** – Results are based on searches of the pollutant name, limitation calculation description, limitation requirement description, limitation notes, and long-term average notes fields in the ELG database.
- **Treatment Technology(ies)** – Results are based on searches of the treatment technology name and description, treatment train notes, and long-term average notes fields in the ELG database.

The Keyword Results page displays the following pollutant limitation results:

- **PSC** – PSC corresponding to the pollutant regulation.
- **CFR Section** – CFR reference section associated with the process operation or wastestream.
- **Subpart** – Subcategory corresponding to the pollutant regulation.
- **Level of Control** – See Table A-2.
- **Pollutant** – Parameter to which a limitation applies.
- **Process** – Short title or name of the process operation or wastestream to which limitations apply. The terms process operation and wastestream are used interchangeably. Some limitations may apply to discharges from a specific process operation. Other limitations may apply to wastestreams that are not defined by a particular process operation. *Select the information icon to access a description of the process operation/wastestream.*
- **Treatment Train** – One or more treatment technology steps that are the technology basis for the pollutant limitation. *Select the information icon to access a description and any notes associated with the treatment train. Page numbers refer to the*

> **Sort Feature and Filter Fields for Keyword Results**
> Use the arrows next to the table headings to sort the results. The results can also be filtered by *Level of Control* and/or *Type of Limitation* using the filter boxes. To remove the filter, re-select the entry.

reference cited at the end of the entry (e.g., technical development document number listed in parentheses).

- **Value** – Pollutant limitation including any limitation flags (see Table A-3). In some cases, an equation may be used for calculating the pollutant limit and details are provided in the limitation requirement description field (see Section 5).

- **Units** – Units of measure associated with the pollutant limitation.

- **Type of Limitation** – Duration to which the pollutant limitation applies (e.g., daily maximum, monthly average). This field also indicates whether the limitation is concentration-based or quantity-based. *To allow for comparisons across PSC, the ELG database groups the type of limitation specified in the CFR into broader classifications, as shown in Table A-1. Select the information icon to access the CFR-specified duration.*

The Keyword Results page includes links to the following information in the ELG database:

- Link to the long-term average (LTA) associated with the pollutant limitation (Go to LTA). If no LTA data are available, no link will be shown. See Section 12.

- Link to download the results displayed on the Keyword Results page to an MS Excel file (Download limitations).

12. Long-Term Averages (LTA) Help (Accessing from the Limitations, Treatment Technology, Treatment Technology Category, Multi-Criteria, and Keyword Results Page)

The Long-Term Averages Results page presents the search criteria at the top of the page and a table of results based on the search criteria. The Long-Term Averages Results page displays the following:

- **Treatment Train** – One or more treatment technology steps that are the technology basis for the pollutant LTA (and limitation). *Select the information icon to access a description and any notes associated with the treatment train. Page numbers refer to the reference cited at the end of the entry (e.g., technical development document number listed in parentheses).*

- **Pollutant** – Parameter to which an LTA (and limitation) applies.

- **LTA Value** – Numeric LTA value. An LTA is the average pollutant concentration that is achieved over a period of time. It is the mean of the underlying statistical distribution of the daily effluent values used to calculate numeric pollutant limitations.

- **LTA Units** – Units of measure associated with the pollutant LTA.

- **Limitation Value** – Pollutant limitation including any limitation flags (see Table A-3).

> **Sort Feature for Long-Term Averages Results**
> Use the arrows next to the table headings to sort the results.

- **Limitation Units** – Units of measure associated with the pollutant limitation.

- **Limitation Basis** – Tool to sort the numerical limitations in the ELG database. The ELG may require conversion of concentration-based to mass-based limitations. *See the Type of Limitation information or CFR for more details.*

- **LTA Reference** – Title or document number cited as the reference for the LTA. Page numbers for the reference may also be included.

> **Disclaimer**: The ELG database includes readily available LTA data identified during this application development. The pollutant LTAs are not yet fully populated in the ELG database.

The Long-Term Averages Results page includes links to the following information in the ELG database:

- Link to download the results displayed on the Long-Term Averages Results page to an MS Excel file (Download limitations).

Attachment A – Reference Tables

Table A-1. Type of Limitations: Classifications in the ELG Database

Type of Limitation (Classification)	Type of Limitation (as listed in the CFR)
Annual average	• Annual average
At all times	• At all times [a]
Average	• Average
Daily maximum	• Maximum • Maximum daily • Maximum for any 1 day
4-day average	• Average of daily values for 4 consecutive monitoring days
Instantaneous maximum	• Maximum for any time • Instantaneous maximum • NSPS for any time
Maximum monthly average	• Maximum monthly average
Minimum	• Minimum • Minimum for any 1 day • Minimum 96-hour LC_{50} [b]
Monthly average	• Monthly average • Average of daily values for 30 consecutive days
Weekly average	• Weekly average

a – Used for pH limitations.
b – Lethal concentration 50%.

Table A-2. Levels of Control [a]

	Direct Discharge	Indirect Discharge
New Dischargers	• New Source Performance Standards (NSPS)	• Pretreatment Standards for New Sources (PSNS)
Existing Dischargers	• Best Available Technology Economically Achievable (BAT) • Best Practicable Control Technology Currently Available (BPT) • Best Conventional Pollutant Control Technology (BCT)	• Pretreatment Standards for Existing Sources (PSES)

a – Levels of control definitions can be found here: https://www.epa.gov/eg/learn-about-effluent-guidelines#levels

Table A-3. Limitation Flags in the ELG Database

Flag	Description	Note
<	Less than	Always accompanied with a numeric value.
ND	No detectable amount	No associated numeric value.
PER	Percent reduction in pollutant loading	No associated numeric value. Further details provided in the *limitation requirement description* field.
<ML	Less than minimum level	Always accompanied with a numeric value.
NO SHEEN	No film or sheen on surface of receiving water	No associated numeric value.
ADJUST	Additive adjustment to the discharge	Hover over the flag to display the numeric value. Provides context on the pollutant limitation in the CFR to properly use the numeric value.
X by Factor	Multiply limitation by a factor	Hover over the flag to display the numeric value. Value must be multiplied by one or more factor listed in the CFR to calculate the limit.

Table A-4. Pollutants in the ELG Database by Pollutant Category

Pollutant Category	ELG Database Pollutant	
Conventional	• BOD5 • Fecal Coliform • Oil & grease	• pH • TSS (total suspended solids)
CWA Priority Pollutant	• 1,1,1-Trichloroethane • 1,1,2-Trichloroethane • 1,1-Dichloroethane • 1,1-Dichloroethylene • 1,2,4-Trichlorobenzene • 1,2-Dichlorobenzene • 1,2-Dichloroethane • 1,2-Dichloropropane • 1,3-Dichlorobenzene • 1,3-Dichloropropene • 1,4-Dichlorobenzene • 2,4,6-Trichlorophenol • 2,4-Dichlorophenol • 2,4-Dimethylphenol • 2,4-Dinitrophenol • 2,4-Dinitrotoluene • 2,6-Dinitrotoluene • 2-Chlorophenol • 4,6-Dinitro-o-cresol • Acenaphthene • Acenaphthylene • Acrylonitrile • Anthracene • Antimony • Arsenic • Benz[a]anthracene • Benzene • Benzo(b)fluoranthene • Benzo[a]pyrene • Benzo[k]fluoranthene • Beryllium • Bis(2-ethylhexyl) phthalate • Bromodichloromethane • Bromomethane	• Butyl benzyl phthalate • Cadmium • Carbon tetrachloride (Tetrachloromethane) • Chlorobenzene • Chloroethane • Chloroform (Trichloromethane) • Chloromethane • Chromium • Chromium, Hexavalent • Chrysene • Copper • Cyanide • Cyanide, available • Di-n-butyl phthalate • Dibromochloromethane • Diethyl phthalate • Dimethyl phthalate • Endrin • Ethylbenzene • Fluoranthene • Fluorene • Heptachlor • Hexachlorobenzene • Hexachlorobutadiene • Hexachloroethane • Lead • Mercury • Methylene chloride (Dichloromethane) • Naphthalene • Nickel • Nitrobenzene • N-Nitrosodimethylamine

Table A-4. Pollutants in the ELG Database by Pollutant Category

Pollutant Category	ELG Database Pollutant	
CWA Priority Pollutant (continued)	• N-Nitrosodi-n-propylamine • N-Nitrosodiphenylamine • o-Dichlorobenzene • Pentachlorophenol • Phenanthrene • Phenol • Pyrene • Selenium • Silver • Tetrachloroethylene	• Toluene • Toxaphene • trans-1,2-Dichloroethylene • Tribromomethane • Trichloroethylene • Vinyl chloride • Zinc • 126 priority pollutants, except Cr & Zn (cooling tower maintenance chemicals) [a]
Metals	• Aluminum • Antimony • Arsenic • Barium • Beryllium • Cadmium • Chromium • Chromium, Hexavalent • Cobalt • Combined metals sum • Copper • Iron • Iron, dissolved • Lead	• Manganese • Mercury • Metals, total • Molybdenum • Nickel • Selenium • Silver • Tin • Titanium • Tungsten • Uranium • Vanadium • Zinc
Nutrient (nitrogen)	• Ammonia • Nitrate (as N) • Nitrate/nitrite as N	• Nitrogen • Organic Nitrogen
Nutrient (phosphorus)	• Phosphorus	• Total phosphorus (as P)
Solids	• Solids, settleable	• TSS (total suspended solids)

a – Pollutant parameter specific to 40 CFR Part 423.