

Water Quality Goals Table Structure and Data Dictionary

A. Fields in the wq_goals table:

<u>Field Name</u>	<u>Function</u>
Name1	Primary chemical (parameter) name
Name2	First synonym for chemical (parameter)
Name3	Second synonym for chemical (parameter)
Name4	Third synonym for chemical (parameter)
Sort_Name	Primary chemical (parameter) name with spaces, commas and dashes removed and numbers and prefixes moved to the end of the name
CAS_Number	Chemical Abstracts Service Registry Number for parameter
Organic_Inorganic	Whether the chemical (parameter) is an organic chemical or an inorganic chemical
Name_Search	Calculation field that combines the fields Name1, Name2, Name3, Name4 and Sort_Name for use in searching the FileMaker Pro table by chemical (parameter) name (not exported to SQL Server)
Limit_Search	Calculation field that combines all of the fields <i>Limit_Name</i> and <i>Limj_Name_2</i> (see below) for use in searching the FileMaker Pro table by water quality limits (not exported to SQL Server)
Unit_Note_Search	Calculation field that combines all of the fields <i>Limit_Name_unit</i> and <i>Limit_Name_note</i> (see below) for use in searching the FileMaker Pro table by water quality limit (not exported to SQL Server)
Footnote_Search	Calculation field that combines all of the fields <i>Limit_Name_fn1</i> and <i>Limit_Name_fn2</i> (see below) for use in searching the FileMaker Pro table by footnote number (not exported to SQL Server)
Footnotes	Calculation field that combines all of the fields <i>Limit_Name_fn1</i> and <i>Limit_Name_fn2</i> (see below), each in parentheses, for use in FileMaker Pro (not exported to SQL Server)
Update	Last date that information on this parameter was updated (originally set to 8/5/2004)

For each type of limit (see list of Limit Names below), the following fields are used:

<u>Field Name</u>	<u>Function</u>
<i>Limit_Name</i>	Water quality limit
<i>Limj_Name_2</i>	Draft or alternate water quality limit (multiple entries separated by semicolons “;”)
<i>Limit_Name_unit</i>	Units (default = ug/L; if blank, assume ug/L)
<i>Limit_Name_note</i>	Links to Excel spreadsheets of variable limits
<i>Limit_Name_fn1</i>	First footnote number
<i>Limit_Name_fn2</i>	Second footnote number (multiple entries separated by semicolons “;” – <i>does not work with current intranet interface</i>)
<i>Limit_Name_all</i>	Calculation field that concatenates the above fields and is used for export to Excel (not exported to SQL Server)
<i>Limit_Name_date</i>	Adoption date for limit in <i>Limit_Name</i> field
<i>Limit_Name_Obj</i>	Narrative water quality objective for which the limit would be an appropriate translator
<i>Limit_Name_WB</i>	Type of water body for which the limit would be an appropriate translator of the narrative water quality objective listed in the <i>Limit_Name_Obj</i> field
<i>Limit_Name_calc</i>	Limit interpretation for comparison with measured values (default = max) (not exported to SQL Server)

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<u>Limit Name</u>	<u>Type of Limit</u>
CA_Prim_MCL	California Primary Maximum Contaminant Level
CA_Sec_MCL	California Secondary Maximum Contaminant Level
USEPA_Prim_MCL	USEPA Primary Maximum Contaminant Level
USEPA_Sec_MCL	USEPA Secondary Maximum Contaminant Level
USEPA_MCL_Goal	USEPA Maximum Contaminant Level Goal
CA_PHG	California Public Health Goal
CA_Action_Level	California State Notification (Action) Level
USEPA_IRIS_RfD	USEPA Integrated Risk Information System, Reference Dose
USEPA_HA_NonCancer	USEPA Health Advisory, effects other than cancer
NAS_HA_NonCancer	National Academy of Sciences Health Advisory, effects other than cancer
CalEPA_Cancer_Potency	CalEPA Toxicity Criteria Database, Cancer Potency Factor
USEPA_IRIS_Cancer	USEPA Integrated Risk Information System, Cancer Risk Level
USEPA_HA_Cancer	USEPA Health Advisory, Cancer Risk Level
NAS_Cancer	National Academy of Sciences Health Advisory, Cancer Risk Level
Prop65_Cancer	Proposition 65 Regulatory Level, based on cancer risk
Prop65_Repro	Proposition 65 Regulatory Level, based on reproductive toxicity
TO_Threshold	Taste or Odor Threshold, other than National Recommended Ambient Water Quality Criteria
Ag_Goals	Agricultural Use Protective Limit
CA_Inland_Health_DW	California (or National) Toxics Rule Criterion to protect human health for waters designated sources of drinking water
CA_Inland_Health_Other	California (or National) Toxics Rule Criterion to protect human health for waters not designated sources of drinking water
CA_Inland_4Day	California (or National) Toxics Rule Criterion to protect freshwater aquatic life, Criteria Continuous Concentration, 4-day average
CA_Inland_24Hr	California (or National) Toxics Rule Criterion to protect freshwater aquatic life, 24-hour average
CA_Inland_1Hr	California (or National) Toxics Rule Criterion to protect freshwater aquatic life, Criteria Maximum Concentration , 1-hour average
CA_Inland_Max	California (or National) Toxics Rule Criterion to protect freshwater aquatic life, instantaneous maximum
CA_BayEst_Health	California (or National) Toxics Rule Criterion to protect human health for waters not designated sources of drinking water
CA_BayEst_4Day	California (or National) Toxics Rule Criterion to protect saltwater aquatic life, Criteria Continuous Concentration, 4-day average
CA_BayEst_24Hr	California (or National) Toxics Rule Criterion to protect saltwater aquatic life, 24-hour average
CA_BayEst_1Hr	California (or National) Toxics Rule Criterion to protect saltwater aquatic life, Criteria Maximum Concentration, 1-hour average
CA_BayEst_Max	California (or National) Toxics Rule Criterion to protect saltwater aquatic life, instantaneous maximum
CA_Ocean_Health	California Ocean Plan water quality objective to protect human health
CA_Ocean_6Mo	California Ocean Plan water quality objective to protect marine aquatic life, 6-month median
CA_Ocean_30Day	California Ocean Plan water quality objective to protect marine aquatic life, 30-day average

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CA_Ocean_7Day	California Ocean Plan water quality objective to protect marine aquatic life, 7-day average
CA_Ocean_DailyMax	California Ocean Plan water quality objective to protect marine aquatic life, daily maximum
CA_Ocean_InstMax	California Ocean Plan water quality objective to protect marine aquatic life, instantaneous maximum
NAWQC_Health_WF	National Recommended Ambient Water Quality Criteria to protect human health from consumption of water and aquatic organisms, effects other than cancer
NAWQC_Health_F	National Recommended Ambient Water Quality Criteria to protect human health from consumption of aquatic organisms only, effects other than cancer
NAWQC_Cancer_WF	National Recommended Ambient Water Quality Criteria to protect human health from consumption of water and aquatic organisms, cancer risk level
NAWQC_Cancer_F	National Recommended Ambient Water Quality Criteria to protect human health from consumption of aquatic organisms only, cancer risk level
NAWQC_TO	National Recommended Ambient Water Quality Criteria for organoleptic effects
NAWQC_Fresh_4Day	National Recommended Ambient Water Quality Criteria to protect freshwater aquatic life, Criteria Continuous Concentration, 4-day average
NAWQC_Fresh_24Hr	National Recommended Ambient Water Quality Criteria to protect freshwater aquatic life, 24-hour average
NAWQC_Fresh_1Hr	National Recommended Ambient Water Quality Criteria to protect freshwater aquatic life, Criteria Maximum Concentration, 1-hour average
NAWQC_Fresh_Max	National Recommended Ambient Water Quality Criteria to protect freshwater aquatic life, instantaneous maximum
NAWQC_Fresh_AcuteInfo	National Recommended Ambient Water Quality Criteria, freshwater aquatic life acute toxicity information
NAWQC_Fresh_ChronicInfo	National Recommended Ambient Water Quality Criteria, freshwater aquatic life chronic toxicity information
NAWQC_Fresh_OtherInfo	National Recommended Ambient Water Quality Criteria, freshwater aquatic life other toxicity information
NAWQC_Salt_4Day	National Recommended Ambient Water Quality Criteria to protect saltwater aquatic life, Criteria Continuous Concentration, 4-day average
NAWQC_Salt_24Hr	National Recommended Ambient Water Quality Criteria to protect saltwater aquatic life, 24-hour average
NAWQC_Salt_1Hr	National Recommended Ambient Water Quality Criteria to protect saltwater aquatic life, Criteria Maximum Concentration, 1-hour average
NAWQC_Salt_Max	National Recommended Ambient Water Quality Criteria to protect saltwater aquatic life, instantaneous maximum
NAWQC_Salt_AcuteInfo	National Recommended Ambient Water Quality Criteria, saltwater aquatic life acute toxicity information
NAWQC_Salt_ChronicInfo	National Recommended Ambient Water Quality Criteria, saltwater aquatic life chronic toxicity information
NAWQC_Salt_OtherInfo	National Recommended Ambient Water Quality Criteria, saltwater aquatic life other toxicity information

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Fish_OEHHA	California OEHHA Screening Values for Fish Contaminants
Fish_EPA	USEPA Screening Values or Criteria for Fish Consumption
Fish_FDA	US Food & Drug Administration Action Levels for Freshwater & Marine Fish Consumption
Fish_NAS	National Academy of Sciences Recommended Guidelines for Freshwater Fish Consumption

B. Values of the *Limit_Name_note* fields in the *wq_goals* table:

see page X Identifies an Excel spreadsheet (with the name "X.xls") of limits that vary with other parameter(s), such as pH, temperature, or hardness.

C. Values of the *Limit_Name_Obj* fields in the *wq_goals* table:

CA	First limit or range is recommended to implement promulgated Criteria to protect Aquatic life.
CH	First limit or range is recommended to implement promulgated Criteria to protect Human health.
CC	First limit or range is recommended to implement the Chemical Constituents objective.
CT	First limit or range is recommended to implement the Chemical Constituents and the Tastes & Odors objectives.
TA	First limit or range is recommended to implement the Toxicity objective to protect Aquatic life.
TH	First limit or range is recommended to implement the Toxicity objective to protect Human health.
TO	First limit or range is recommended to implement the Tastes and Odors objectives.

D. Values of the *Limit_Name_WB* fields in the *wq_goals* table:

G	Limiting water quality limit applies to Groundwater.
IS	Limiting water quality limit applies to Inland Surface waters.
E	Limiting water quality limit applies to Enclosed Bay or Estuarine waters.
O	Limiting water quality limit applies to Ocean waters.
G; IS	Limiting water quality limit applies to both Groundwater and Inland Surface water.
E;O	Limiting water quality limit applies to Enclosed Bay, Estuarine or Ocean waters.

E. Values of the *Limit_Name_calc* fields in the *wq_goals* table:

- act *Limit_Name* and *Limit_Name_2* trigger different actions; use *Limit_Name* for health effects.
- ag *Limit_Name* and *Limit_Name_2* are from different agencies, offices, or sources.
- biad *Limit_Name* based on exposure from birth; *Limit_Name_2* based on adult exposure only.
- chad *Limit_Name* is for a child; *Limit_Name_2* is for an adult.
- comp *Limit_Name* and *Limit_Name_2* are for different compounds, isomers, aroclors, or salts.
- hard Actual limit is a function of water hardness as shown in pageX.xls, which is specified in *Limit_Name_notes* field.
- max *Limit_Name* and *Limit_Name_2* are maximum values (default; assume “max” if left blank).
- min *Limit_Name* and *Limit_Name_2* are minimum values.
- modl Actual limit is a function of other water quality parameters, and is calculated using a model.
- range Actual limit is a range from *Limit_Name* to *Limit_Name_2*.
- pH Actual limit is a function of water pH as shown in pageX.xls, which is specified in *Limit_Name_notes* field.
- pHt Actual limit is a function of water pH and temperature as shown in pageX.xls, which is specified in *Limit_Name_notes* field.
- pHts Actual limit is a function of water pH, temperature, and salinity as shown in pageX.xls, which is specified in *Limit_Name_notes* field.
- prop If both fields have values, *Limit_Name* is the current value; *Limit_Name_2* is a proposed or draft value. If *Limit_Name_2* is blank, *Limit_Name* is a proposed or draft value.
- stud *Limit_Name* and *Limit_Name_2* are based on different studies.
- units *Limit_Name* and *Limit_Name_2* are expressed in units other than ug/L. Calculations may be necessary to derive a concentration limit in water.
- upce *Limit_Name* is an upper bound estimate; *Limit_Name_2* is a central tendency estimate.

F. Fields in the “footnotes” table:

<u>Field Name</u>	<u>Function</u>
Footnote_Number	The number of the footnote, also used in the fields <i>Limit_Name_fn1</i> and <i>Limit_Name_fn2</i> in the “wq_goals” table
Footnote_Text	Text of the footnote, without any cited reference or page number (not exported to SQL Server)
Reference_Number	Number of the reference cited in the footnote (not exported to SQL Server)
Page_Number	Page number cited in the footnote (not exported to SQL Server)
Text_Reference_Page	Calculation field that combines entries in the fields Footnote_Text, Reference_Number, and Page_Number to create the full text of the footnote
Chemicals_citing_Footnote	Calculation field that lists the Name1 fields of all entries in the “wq_goals” table where <i>Limit_Name_fn1</i> or <i>Limit_Name_fn2</i> matches Footnote Number in the footnotes table (not exported to SQL Server)
Equals_Footnote_Number	Calculation field that combines the “=” symbol with the Footnote_Number field (not exported to SQL Server)
Footnote_Sort	A number field used to place the footnote entries in the proper order for export to Excel (not exported to SQL Server)

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G. Fields in the “references” table:

Note: There is no corresponding SQL Server table to this FileMaker Pro table. Information in this table is used to manage the reference information found on the “references_wq.htm” page.

<u>Field Name</u>	<u>Function</u>
Reference_Number	The number of the reference, also used in the Reference_Number field in the “footnotes” table (not exported to SQL Server)
Reference_Text	Text of the reference (not exported to SQL Server)
Category1	First category of water quality limit for which this is a possible reference (not exported to SQL Server)
Category2	Second category of water quality limit for which this is a possible reference (not exported to SQL Server)
Category3	Third category of water quality limit for which this is a possible reference (not exported to SQL Server)
Category4	Fourth category of water quality limit for which this is a possible reference (not exported to SQL Server)
Category_Sort_Field	Used to sort the table by category of water quality limits (not exported to SQL Server)
Categories	Calculation field that combines the fields Category1, Category2, Category3, and Category4 for use in searching the table by category of water quality limit (not exported to SQL Server)
Equals_Reference_Number	Calculation field that combines the “=” symbol with the Reference_Number field (not exported to SQL Server)

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