

ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: FREQUENCY

number of samples to run per control

| Column Name             | Data Type      | PK? | Nullable | VVL  | Description   |
|-------------------------|----------------|-----|----------|------|---|
| FREQUENCY_ANMCODE       | varchar (7)    |     | No       | ANM  | (VVL: METHLST) ANALYTICAL METHOD CODE: Coded value representing the method of analysis of a given parameter.                          |
| FREQUENCY_BS            | int            |     | Yes      |      | The number of blank spikes required for this method.  |
| FREQUENCY_FD            | int            |     | Yes      |      | The number of field duplicates required for this method.  |
| FREQUENCY_FR            | int            |     | Yes      |      | The number of field replicates required for this method.  |
| FREQUENCY_LABCODE       | varchar (4)    |     | Yes      |      | (VVL: VVLLAB ) Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample. |
| FREQUENCY_LB            | int            |     | Yes      |      | The number of lab blanks required for this method.  |
| FREQUENCY_MATRIX_TYPE   | varchar (1)    |     | No       | MTY  | (VVL: VVLMTY ) SAMPLING MATRIX_TYPE: Coded value identifying the sample medium actually being analyzed, i.e., soil, water, etc.       |
| FREQUENCY_MS            | int            |     | Yes      |      | The number of matrix spikes required for this method.   |
| FREQUENCY_RECNO         | bigint         | Yes | No       |      | Unique system generated sequence number   |
| FREQUENCY_REFERENCE     | varchar (255)  |     | Yes      |      | 'Bibliographic reference to supporting documents for process being completed.   |
| FREQUENCY_SD            | int            |     | Yes      |      | The number of matrix spike duplicates required for this method.   |
| FREQUENCY_SOURCE        | varchar (1)    |     | No       | PJTT | A coded value indicating whether the entered data is specified within the laboratory or prime QAPP or DQO                             |
| FREQUENCY_SUBMDATE      | datetime       |     | Yes      |      | Date of submittal.  |
| FREQUENCY_UPTIME        | datetime       |     | Yes      |      | The date the record was last updated.   |
| FREQUENCY_UPUSER        | varchar (500)  |     | Yes      |      | The last user to update the record.   |
| FREQUENCY_USER_COMMENTS | varchar (4000) |     | Yes      |      |   |
| FREQUENCY_USER_NUMBER   | decimal (14,6) |     | Yes      |      |   |
| FREQUENCY_VALSTATUS     | varchar (12)   |     | Yes      |      | Status of record validation.  |
| PROJECT_RECNO           | bigint         |     | No       |      | recno of parent project record  |

Associated Tables

Table Name

PROJECT

ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: PERFORMANCE

criteria to evaluate sample control limits

| Column Name                  | Data Type      | PK? | Nullable | VVL | Description  |
|------------------------------|----------------|-----|----------|-----|--|
| FREQUENCY_RECNO              | bigint         |     | No       |     | recno of parent frequency record   |
| PERFORMANCE_LABCODE          | varchar (4)    |     | Yes      |     | (VVL: VVLLAB ) Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample             |
| PERFORMANCE_LOWER_ACCURACY   | decimal (14,2) |     | Yes      |     | Accuracy Lower Limit. Lower control limit of percent recovery as measured for a known target analyte spiked into a QC sample.                    |
| PERFORMANCE_MDL              | decimal (14,6) |     | Yes      |     | METHOD DETECTION LIMIT: The smallest qauntity of an analyte that can be detected from a prepared sample.   |
| PERFORMANCE_PARLABEL         | varchar (12)   |     | No       | PAR | (VVL: ANALLST ) PARAMETER LABEL CODE: An abbreviated, common acronym representing a parameter/analyte.   |
| PERFORMANCE_RECNO            | bigint         | Yes | No       |     | Unique system generated sequence number  |
| PERFORMANCE_REFERENCE        | varchar (255)  |     | Yes      |     | 'Bibliographic reference to supporting documents for process being completed.  |
| PERFORMANCE_RL               | decimal (14,6) |     | Yes      |     | AFCEE REPORTING LIMIT: The smallest quantity of an analyte that should be reported in accordance with the AFCEE QAPP.                            |
| PERFORMANCE_RPD              | decimal (14,2) |     | Yes      |     | A Measure of variability that adjusts for the magnitude of observations. Used to assess total and analytical precision of duplicate measurements |
| PERFORMANCE_SUBMDATE         | datetime       |     | Yes      |     | Date of submittal.   |
| PERFORMANCE_SURROGATE        | bit            |     | Yes      |     | A yes/no flag indicating the analyte is a surrogate.   |
| PERFORMANCE_SURROGATE_NUMBER | int            |     | Yes      |     | An integer value indicating the elution order of the entered surrogates for analyses such as SW8270  |
| PERFORMANCE_UNITS            | varchar (10)   |     | Yes      | UTM | (VVL: VVLUTM) UNITS OF MEASURE: Units of measure used for the parameter value.   |
| PERFORMANCE_UPPER_ACCURACY   | decimal (14,2) |     | Yes      |     | Accuracy Upper Limit. Upper control limit of percent recovery as measured for a known target analyte spiked into a QC sample.                    |
| PERFORMANCE_UPTIME           | datetime       |     | Yes      |     | The date the record was last updated.  |
| PERFORMANCE_UPUSER           | varchar (12)   |     | Yes      |     | The last user to update the record.  |
| PERFORMANCE_USER_COMMENTS    | varchar (4000) |     | Yes      |     | user comments for record.  |
| PERFORMANCE_USER_NUMBER      | decimal (14,6) |     | Yes      |     | user number for record.  |
| PERFORMANCE_VALSTATUS        | varchar (12)   |     | Yes      |     | Status of record validation.   |

## ERPX\_Lab\_Empty\_L Data Dictionary

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Table Name: PERFORMANCE

criteria to evaluate sample control limits

Column Name

Data Type

PK?

Nullable

VVL Description

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### Associated Tables

Table Name

FREQUENCY

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ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: PROJECT

Project information.

| Column Name                 | Data Type     | PK? | Nullable | VVL | Description   |
|-----------------------------|---------------|-----|----------|-----|---|
| PROJECT_AFIID               | varchar (5)   |     | No       | AFI | (VVL: AFI) AIR FORCE INSTALLATION IDENTIFICATION: Unique code used to represent an Air Force installation, plant, or base.                        |
| PROJECT_CONTRACT_ID         | varchar (16)  |     | No       |     | Number identifying the contract. This number must be unique across all Air Force organizations.   |
| PROJECT_DATA_TYPE           | varchar (5)   |     | Yes      |     | A coded value indicating whether the data-set is comprised of screening or definitive data.   |
| PROJECT_DO_ID               | varchar (4)   |     | No       |     | Number identifying the delivery order.  |
| PROJECT_END_DATE            | datetime      |     | Yes      |     | Date project ended  |
| PROJECT_FREQUENCY           | varchar (5)   |     | Yes      |     | A coded value describing the frequency of sample collection activities for the current contract and task order.                                   |
| PROJECT_HARD_COPY_REFERENCE | varchar (255) |     | Yes      |     | A bibliographic reference to the final report documenting the sampling event and activities conducted under the reported contract and task order. |
| PROJECT_LAB_POC_EMAIL       | varchar (50)  |     | Yes      |     | LAB Email address for project point of contact  |
| PROJECT_LAB_POC_FIRST_NAME  | varchar (25)  |     | Yes      |     | LAB Point of contact for project - first name   |
| PROJECT_LAB_POC_LAST_NAME   | varchar (25)  |     | Yes      |     | LAB Point of contact for project - last name  |
| PROJECT_LABCODE             | varchar (4)   |     | Yes      |     | (VVL: VVLLAB ) Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample              |
| PROJECT_LOGCODE             | varchar (4)   |     | Yes      |     | (VVL: VVLLG ) LOGGING COMPANY CODE: Coded value identifying the company performing field tests.   |
| PROJECT_PHASE               | varchar (5)   |     | Yes      |     | A coded value representing the phase of the current sampling event i.e. RI, FS, RA etc.   |
| PROJECT_POC_EMAIL           | varchar (50)  |     | Yes      |     | Email address for project point of contact  |
| PROJECT_POC_FIRST_NAME      | varchar (25)  |     | Yes      |     | Point of contact for project - first name   |
| PROJECT_POC_LAST_NAME       | varchar (25)  |     | Yes      |     | Point of contact for project - last name  |
| PROJECT_PROJECT_ID          | varchar (255) |     | No       |     | Name of the project the contract is for   |
| PROJECT_RECNO               | bigint        | Yes | No       |     | Unique system generated sequence number   |
| PROJECT_START_DATE          | datetime      |     | Yes      |     | Date project started  |
| PROJECT_TASK_REQUEST        | bigint        |     | Yes      |     | A tracking number issued by the AFCEE electronic data loading section that is specific to a single Prime data reporting project.                  |

## ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: PROJECT

Project information.

| Column Name    | Data Type     | PK? | Nullable | VVL | Description                             |
|----------------|---------------|-----|----------|-----|---|
| PROJECT_TYPE   | varchar (1)   |     | No       |     | Type of project - P for prime,L for lab |
| PROJECT_UPTIME | datetime      |     | Yes      |     | The date the record was last updated.   |
| PROJECT_UPUSER | varchar (500) |     | Yes      |     | The last user to update the record.     |

## ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: RESULT

Information on analytical results of an environmental sampling test procedure

| Column Name             | Data Type      | PK? | Nullable | VVL | Description  |
|-------------------------|----------------|-----|----------|-----|--|
| RESULT_BEST_RESULT      | varchar (1)    |     | Yes      |     | The single result value that has been determined to be the best result - ie the value reported in the prime contractors final report for the sampling event in focus |
| RESULT_CNFVALPREC       | smallint       |     | Yes      |     | Number indicating the precision (number of digits after the decimal point) of the results.   |
| RESULT_DILUTION         | decimal (16,6) |     | Yes      |     | Numeric expression of the amount of dilution required to bring the analyte concentration in the sample into analysis range.  |
| RESULT_EVPREC           | smallint       |     | Yes      |     |  |
| RESULT_EXPECTED         | decimal (16,6) |     | Yes      |     | The target result for a quality control sample or surrogate spike.   |
| RESULT_FCVALPREC        | smallint       |     | Yes      |     | Number indicating the precision (number of digits after the decimal point) of the results.   |
| RESULT_LAB_DQT          | varchar (5)    |     | Yes      | LQT | A code identifying the type of data qualifier.   |
| RESULT_LAB_QC_FLAG      | varchar (6)    |     | Yes      | QAP | Codes that are assigned during chemistry data validation.  |
| RESULT_LOWER_ACCURACY   | decimal (14,2) |     | Yes      |     | Accuracy Lower Limit. Lower control limit of percent recovery as measured for a known target analyte spiked into a QC sample.  |
| RESULT_MDL              | decimal (16,6) |     | Yes      |     | METHOD DETECTION LIMIT: The smallest quantity of an analyte that can be detected from a prepared sample.   |
| RESULT_PARLABEL         | varchar (12)   |     | No       | PAR | (VVL: ANALLST ) PARAMETER LABEL CODE: An abbreviated, common acronym representing a parameter/analyte.   |
| RESULT_PARUN            | decimal (12,4) |     | Yes      |     | A value which measures the uncertainty of the analytical test (expressed as + or - some value).  |
| RESULT_PARVAL           | decimal (16,6) |     | Yes      |     | PARAMETER VALUE: value of calculated parameter reported in units consistent with UNITMEAS.   |
| RESULT_PARVQ            | varchar (2)    |     | Yes      | PVQ | (VVL: VVLPVQ) PARAMETER VALUE QUALIFIER: Coded value qualifying the analytical results field (PARVAL).   |
| RESULT_PERCENT_RECOVERY | decimal (14,2) |     | Yes      |     | The calculated percent recovery value for the spiked or surrogate analyte  |
| RESULT_PRCCODE          | varchar (3)    |     | Yes      | PRC | (VVL: VVLPRC ) PARAMETER CLASS CODE: Coded value identifying a class or group that a parameter is associated with (e.g. ORG, MET, STD, etc.)                         |
| RESULT_PRECISION        | smallint       |     | Yes      |     | Number indicating the precision (number of digits after the decimal point) of the results.   |

ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: RESULT

Information on analytical results of an environmental sampling test procedure

| Column Name             | Data Type      | PK? | Nullable | VVL | Description  |
|-------------------------|----------------|-----|----------|-----|--|
| RESULT_REASON_CODE      | varchar (30)   |     | Yes      | RRC | Coded value that indicates why a lab or contractor flag was issued to a data point   |
| RESULT_RECNO            | bigint         | Yes | No       |     | Unique system generated sequence number.   |
| RESULT_RL               | decimal (16,6) |     | Yes      |     | AFCEE REPORTING LIMIT: The smallest quantity of an analyte that should be reported in accordance with the AFCEE QAPP.                                    |
| RESULT_RPD              | decimal (14,2) |     | Yes      |     | Measure of variability that adjusts for the magnitude of observations. Used to assess total and analytical on of duplicate measurements.                 |
| RESULT_SPIKE_ADDED      | decimal (16,6) |     | Yes      |     | Final concentration of an analyte spiked into a sample   |
| RESULT_SPIKE_ADDED_PREC | smallint       |     | Yes      |     | Number indicating the precision (number of digits after the decimal point) of spike added  |
| RESULT_SUBMDATE         | datetime       |     | Yes      |     | Date of submittal.   |
| RESULT_UNITS            | varchar (10)   |     | Yes      | UTM | (VVL: VVLUTM) UNITS OF MEASURE: Units of measure used for the parameter value.   |
| RESULT_UPPER_ACCURACY   | decimal (14,2) |     | Yes      |     | Accuracy Upper Limit. Upper control limit of percent recovery as measured for a known target analyte spiked into a QC sample.                            |
| RESULT_UPPER_RPD        | decimal (14,2) |     | Yes      |     | The upper performance limit for relative percent difference  |
| RESULT_UPTIME           | datetime       |     | Yes      |     | The date the record was last updated.  |
| RESULT_UPUSER           | varchar (500)  |     | Yes      |     | The last user to update the record.  |
| RESULT_USER_COMMENTS    | varchar (4000) |     | Yes      |     |  |
| RESULT_USER_NUMBER      | decimal (14,6) |     | Yes      |     |  |
| RESULT_VAL_1C           | decimal (16,6) |     | Yes      |     | Field which represents the primary or initial value for a analyte generated from a Gas Chromatography or Gas Chromatography / Mass Spectroscopy results. |
| RESULT_VAL_CONFIRM      | decimal (16,6) |     | Yes      |     | VAL_CONFIRM: The CONFIRMING VALUE of a chromatographic analytical result that requires second column confirmation.                                       |
| RESULT_VALSTATUS        | varchar (12)   |     | Yes      |     | Status of record validation.   |
| RESULT_VQ_1C            | varchar (2)    |     | Yes      | PVQ | A coded value qualifying the RESULTS.VAL_1C field.   |
| RESULT_VQ_CONFIRM       | varchar (2)    |     | Yes      | PVQ | Code value qualifying the confirming analytical result.  |
| TEST_RECNO              | bigint         |     | No       |     | Value that ties record to the test table   |

## ERPX\_Lab\_Empty\_L Data Dictionary

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Table Name: RESULT

Information on analytical results of an environmental sampling test procedure

Column Name

Data Type

PK?

Nullable VVL

Description

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### Associated Tables

Table Name

TEST

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ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: SAMPLE

Reports information regarding a water, soil, or environmental sampling event

| Column Name          | Data Type      | PK? | Nullable | VVL | Description   |
|----------------------|----------------|-----|----------|-----|---|
| SAMPLE_COCID         | varchar (12)   |     | Yes      |     | Unique identification reference to the chain of custody describing the transport of the sample to the laboratory.                           |
| SAMPLE_FLDSAMPID     | varchar (30)   |     | Yes      |     | Unique number assigned to the sample in the field.  |
| SAMPLE_LABSAMPID     | varchar (20)   |     | No       |     | Laboratory Sample Identification.   |
| SAMPLE_LOGCODE       | varchar (4)    |     | Yes      | LOG | (VVL: VVLOG ) LOGGING COMPANY CODE: Coded value identifying the company performing field tests.   |
| SAMPLE_LOGDATE       | datetime       |     | Yes      |     | The date/time the sample was taken.   |
| SAMPLE_LOGTIME       | datetime       |     | Yes      |     | Time of day (24 hour clock format with no colon - HHMM) that a sample is collected, a field measurement is made, or a QC sample is created. |
| SAMPLE_MATRIX        | varchar (2)    |     | No       | MTX | Coded value identifying the specific sample medium actually being analyzed, (e.g., drill cuttings, waste water, etc.).                      |
| SAMPLE_PARENTFLDID   | varchar (30)   |     | Yes      |     | FLDSAMPID of the parent record  |
| SAMPLE_PARENTLABID   | varchar (20)   |     | Yes      |     | LABSAMPID of the parent record  |
| SAMPLE_RECNO         | bigint         | Yes | No       |     | Unique system generated sequence number.  |
| SAMPLE_REMARKS       | varchar (240)  |     | Yes      |     | Comment about the sample  |
| SAMPLE_SACODE        | varchar (2)    |     | Yes      | SA  | A coded value identifying whether the sample is QC or normal and the type is QC.  |
| SAMPLE_SAMPNO        | smallint       |     | Yes      |     | This is the numeric portion of the Sample Type.   |
| SAMPLE_SDG           | varchar (20)   |     | Yes      |     | The laboratory sample delivery group value.   |
| SAMPLE_SUBMDATE      | datetime       |     | Yes      |     | Date of submittal.  |
| SAMPLE_UPTIME        | datetime       |     | Yes      |     | The date the record was last updated.   |
| SAMPLE_UPUSER        | varchar (500)  |     | Yes      |     | The last user to update the record.   |
| SAMPLE_USER_COMMENTS | varchar (4000) |     | Yes      |     |   |
| SAMPLE_USER_NUMBER   | decimal (14,6) |     | Yes      |     |   |
| SAMPLE_VALSTATUS     | varchar (12)   |     | Yes      |     | Status of record validation.  |

ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: TEST

Information on test preparation and procedures for an environmental sample

| Column Name     | Data Type    | PK? | Nullable | VVL | Description   |
|-----------------|--------------|-----|----------|-----|---|
| SAMPLE_RECNO    | bigint       |     | No       |     | Key value which ties records to the sample table  |
| TEST_ANADATE    | datetime     |     | Yes      |     | Date the sample or extraction is analyzed in the laboratory.  |
| TEST_ANALOT     | varchar (10) |     | Yes      |     | The batch designator of an autonomous group of environmental samples and associated QC samples analyzed together.                     |
| TEST_ANATIME    | datetime     |     | Yes      |     | Time the sample or extraction is analyzed in the laboratory.  |
| TEST_ANMCODE    | varchar (7)  |     | No       | ANM | (VVL: METHLST) ANALYTICAL METHOD CODE: Coded value representing the method of analysis of a given parameter.                          |
| TEST_BASIS      | varchar (1)  |     | Yes      | BAS | VVL: VVLBAS) Basis. For tissue or solid samples enter whether results are reported on a wet (W) or dry (D) basis.                     |
| TEST_CALREFID   | varchar (10) |     | Yes      |     | A coded value which establishes a reference link between environmental and QC samples and their corresponding calibration records.    |
| TEST_EXMCODE    | varchar (7)  |     | No       | EXM | (VVL: EXTLST ) EXTRACTION METHOD CODE: Coded value representing the method used to extract or prepare a sample                        |
| TEST_EXTDATE    | datetime     |     | Yes      |     | Preparation Date is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.    |
| TEST_EXTTIME    | datetime     |     | Yes      |     | Preparation Time is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.    |
| TEST_LABCODE    | varchar (4)  |     | Yes      | LAB | (VVL: VVLLAB ) Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample. |
| TEST_LABLOTCTL  | varchar (10) |     | Yes      |     | Preparation Lot is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.     |
| TEST_LCHDATE    | datetime     |     | Yes      |     | Date the sample was leached.  |
| TEST_LCHLOT     | varchar (10) |     | Yes      |     | The batch designator of an autonomous group of environmental samples and associated QC samples leached together.                      |
| TEST_LCHMETH    | varchar (7)  |     | No       | LCH | Coded value identifying the leachate method.  |
| TEST_LCHTIME    | datetime     |     | Yes      |     | Time the sample was leached.  |
| TEST_RECNO      | bigint       | Yes | No       |     | Unique system generated sequence number.  |
| TEST_RUN_NUMBER | smallint     |     | No       |     | This information is stored in the Test Procedure class and is replaced by the use of Test Sequence.                                   |
| TEST_SUBMDATE   | datetime     |     | Yes      |     | Date of submittal.  |

## ERPX\_Lab\_Empty\_L Data Dictionary

Table Name: TEST

Information on test preparation and procedures for an environmental sample

| Column Name        | Data Type      | PK? | Nullable | VVL | Description                           |
|--------------------|----------------|-----|----------|-----|---------------------------------------|
| TEST_UPTIME        | datetime       |     | Yes      |     | The date the record was last updated. |
| TEST_UPUSER        | varchar (500)  |     | Yes      |     | The last user to update the record.   |
| TEST_USER_COMMENTS | varchar (4000) |     | Yes      |     |                                       |
| TEST_USER_NUMBER   | decimal (14,6) |     | Yes      |     |                                       |
| TEST_VALSTATUS     | varchar (12)   |     | Yes      |     | Status of record validation.          |

### Associated Tables

Table Name

SAMPLE