

**Integrated Compliance Information System (ICIS) Data Access**

Flow Configuration Document

**Version 1.0g**

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**Prepared by:**

**United States Environmental Protection Agency**

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**Revision Log**

| **Date** | **Version No.** | **Description** | **Author** | **Reviewer** | **Review Date** |
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| 7/11/2016 | 1.0f | Updated text concerning which database the Prod and Test CDX Nodes connect to: ICISCOPY for Prod and ICIS Stage for Test.Updated the Notes columns for the 4 occurrences of the LimitSetDesignator parameter.Updated Section 2.4 with info about ICIS Nightly Processing.Updated Section 3.3.2 about using the ‘%’ symbol at the beginning of a string. | Won Lee / EPA – OECA | Bill Rensmith, Karan Arora | 7/26/2016 |
| Sept 2017 | 1.0g | Added info about the new GetICISFederalComplianceMonitoringData service in 3.2.1 Solicit list and 3.3.2 service parameters list.Added info about the different service transaction status types in 2.3.Added info about the ComplianceTrackingStatus block being converted to A or I StatusCodes and Inactive blocks being commented out.Added info in 3.3 about the services that retrieve records from ALL versions of a permit, not just the current version. | Won Lee / EPA – OECA |  |  |

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# Component Alignment

## Flow Component Versions Currently Supported

|  |  |  |
| --- | --- | --- |
| Component | Version(s) Supported | Explanation (optional) |
| FCD | 1.0 | This Flow Configuration Document detailing the steps needed to deploy the dataflow. |
| Schema | 1.0 | The XML Schema files that describe the data elements used in the dataflow for the ICIS reference tables only. |
| DET | 1.0 | Data Exchange Template detailing all schema elements. |
| Sample XML instance files |  | Includes at least one sample for each of the query services. |
| Schema Change Log  | 1.0 | Spreadsheet log of recent changes made to ICISDA components. |

# Introduction

## Flow Identification

**Flow Name:** ICISDA (ICIS Data Access)

**Flow Owner:** Won Lee, Office of Enforcement and Compliance Assurance (OECA), U.S. EPA.

**Flow Owner Contact Information:** lee.won@epa.gov, 202-564-2301

## Background

The ICIS Data Access dataflow provides the ability for any participating Exchange Network partner or node (e.g., a state agency node, EPA Regional node, etc.) to request and receive ICIS data in XML format. The Integrated Compliance Information System (ICIS) currently holds data from various EPA programs such as NPDES (National Pollutant Discharge Elimination System), FE&C (Federal Enforcement and Compliance), and RCRA (Resource Conservation and Recovery Act). Other programs will be incorporated into ICIS in the future.

## Dataflow Overview

The Central Data Exchange (CDX) Node implements ICIS Query Services and ICIS Solicit Services which are exposed to the Exchange Network. These Services are implemented with parameters that are applicable for predefined ICIS data queries that have been identified as within the scope of this dataflow (see section 3.3 for the list of parameters for each service). Services to invoke these queries via the ICIS Query and Solicit Services are implemented by participating nodes, such as a state environmental agency. This flow is implemented according to Exchange Network Practices and Recommendations as various Query and Solicit web services.

A State Node (or any other participating node, but from now on referred to as ‘State Node’) performs Query and Solicit web services to the CDX Node in order to request and receive ICIS data, specifically, ICIS-NPDES (National Pollutant Discharge Elimination System) data. The state will then be able to use the data for their state systems or similar purposes. The CDX Node performs the necessary data query against the ICISCopy database (Test CDX Node queries ICIS Stage), a replica of the ICIS production database that is refreshed with ICIS Production data on a nightly basis, based on the submitted parameters and then perform the necessary data transformation to produce an XML document. For Query services, the processing occurs synchronously, where the user can download the result files in real time. For the more process-intensive Solicit services, the processing occurs asynchronously, where the user can download the result files at a later time. The XML document can then be loaded to the state’s database system either manually or automatically.

An overview of the ICIS Data Access flow for Query Services is displayed in Figure 1‑1 and an overview of Solicit Services is displayed in Figure 1-2.

Figure 1-1 ICIS Data Access Overview, Query Services



The following steps describe the ICIS Data Access flow process as depicted in the Figure above. The State Node authenticates their NAAS account against the CDX Node. If authentication fails, the CDX Node returns an Authentication Fault. If authentication is successful, the CDX Node returns a security token to the State Node and the user can run Query services using one of the endpoint URLs listed in Section 3.1. If validation of a Query request fails, the CDX Node returns a SOAP Fault to the State Node with the fault reason. If validation of a Query request succeeds, the CDX Node generates a CDX Query Transaction ID and associates it with the request. The CDX Node queries the ICISCopy database (Test CDX Node queries ICIS Stage) and generates an XML document from the query result set, which is sent back to the user. If the generation of the XML document fails, a soap fault is sent.

Figure 1- ICIS Data Access Overview, Solicit Services



The following steps describe the ICIS Data Access flow process as depicted in the Figure above. The State Node authenticates their NAAS account against the CDX Node. If authentication fails, the CDX Node returns an Authentication Fault. If authentication is successful, the CDX Node returns a security token to the State Node and the user can run Solicit services using one of the endpoint URLs listed in Section 3.2. If validation of a Solicit request fails, the CDX Node returns a SOAP Fault to the State Node with the fault reason. If validation of a Solicit request succeeds, the CDX Node generates a CDX Transaction ID and associates it with the request. The CDX Node records the Solicit request and a status of ‘Pending’. The CDX Node then passes the request parameters to a stored procedure in the ICISCopy database that generates an XML document from the query result set (Test CDX Node queries ICIS Stage). The ICISCopy database streams the resulting XML back to the CDX Node which saves the result on the file system. The user can check the status of the Solicit at any time, and when the result is available, the status will change to ‘Processed’, and the user will be able to request the file using the Download service. This sends the result file back to the user and changes the status to ‘Completed’. If the generation of the XML document fails, an error message is available and the status is listed as ‘Failed’.

## Flow Access and Security

ICIS Data Access users must be registered with NAAS and acquire NAAS policies to perform web services required for the ICIS Data Access flow. The CDX Node Administrator grants these privileges. A NAAS account can then be used to access the dataflow using methods such as a Node client or the Exchange Network Services Center website. Production ICISDA (ENSC site <https://enservices.epa.gov>) connects to the ICISCOPY database and Test ICISDA (ENSC site <https://enservicestest.epacdxnode.net>) connects to the ICIS Stage database. ICIS Nightly Processing begins around 11PM EST when ICIS data is copied to ICISCOPY, among other processes.  Therefore, please do not query or schedule jobs from 11PM to 6AM EST, when the nightly processing usually completes.

## Flow-level Business Rules

**Current Business Rules:**

* The flow supports the Node 2.0 protocol only
* The CDX Node has direct database access to the ICISCopy database using the CDX\_USER user ID (Test CDX Node queries ICIS Stage).
* No notification e-mails are issued in case of transaction failure. The synchronous queries return errors (if any) in real time. Errors in asynchronous queries (Solicit services) become available if a separate getStatus call is made.
* When a result file is ready to download, the website will not provide details of your request criteria parameters, so it is up to the user to record what criteria parameters were used to return a result file, especially for Solicit requests.
* The data format returned to the requesting user is XML. XML is the standard method of data transfer on the Exchange Network. Other applications such as the Exchange Network Services Center website can transform the XML data into HTML or other formats, but the format generated from CDX is XML. The ICIS Data Access XML Schema defines the layout and organization of the seven reference table XML elements (tags). For the remaining ICISDA services, the XML Schema that these elements are validated against is the existing ICIS XML Schema (currently version 5: <http://www.exchangenetwork.net/data-exchange/icis-npdes/>).

**Fault Follow-up Actions:** None required. The user must decide whether to rerun the request after a fault.

## Audience

The primary audience for this document is developers, project managers and architects throughout the ICIS Data Access stakeholder organizations.

# Data Publishing

There are currently three types of services for the ICISDA flow: Authenticate, Query, and Solicit. A state node user logs into CDX using Authenticate. After entering any mandatory and optional parameters, such as NPDES ID, starting and ending date ranges, and codes, either a Query or Solicit service is processed depending on the service type, which are detailed below.

## Query service

The Query method is used to synchronously query the ICISCopy database in the Production environment and ICIS Stage in the Test environment. The following endpoint URL(s) are used:

**Test WSDL:** https://cdxnode2.epacdxnode.net/wsdl/node\_v20.wsdl

**Test Endpoint:** https://cdxnode2.epacdxnode.net/Node2WS.svc

**Production WSDL:** https://node2.epa.gov/wsdl/node\_v20.wsdl

**Production Endpoint:** https://node2.epa.gov/Node2WS.svc

### Query

**Type:** Query

**Data Service-level Business Rules:** None

**XML Header Usage:** N/A

## Solicit service

The Solicit method is used to asynchronously query the ICISCopy database in the Production environment and ICIS Stage in the Test environment. The following endpoint URL(s) are used:

**Test WSDL:** https://cdxnode2.epacdxnode.net/wsdl/node\_v20.wsdl

**Test Endpoint:** https://cdxnode2.epacdxnode.net/Node2WS.svc

**Production WSDL:** https://node2.epa.gov/wsdl/node\_v20.wsdl

**Production Endpoint:** https://node2.epa.gov/Node2WS.svc

### Solicit

**Type:** Solicit

**Business Rules for the Solicit services:**

Because the Solicit results can potentially be extremely large, the result XML files are in ZIP format when downloaded, and must be unzipped to extract the XML file.

For **GetICISBasicPermitData** and **GetICISGeneralPermitData**, the **PermitStatusCode** tags and values returned in the XMLs will be commented out so that if the XML ever needs to be submitted back to ICIS, the values for these PermitStatusCodes won’t invalidate the XML. This is because the only valid PermitStatusCode that can be submitted to ICIS in XML format is “NON” (“Not Needed”). Here is an example of a commented out PermitStatusCode:

<!-- <PermitStatusCode>EFF</PermitStatusCode> -->

If the user wishes to utilize the values returned, he or she must remove the commenting.

For GetICISBasicPermitData and GetICISGeneralPermitData, the StatusCode tag value (under the ComplianceTrackingStatus parent tag) returned is converted to either A or I (Active or Inactive) depending on whether the value in the database is Y or N, respectively. This is because the A or I values are the only values accepted by the ICIS XML Schema. If a ComplianceTrackingStatus block with inactive data is present, this block will be commented out to prevent an invalid XML if resubmitting into ICIS.

**XML Header Usage:** N/A

## Request

**Dataflow:** ICISDA

 **Requests:** The 45 ICISDA requests are broken down into 7 ICIS reference tables and 38 services that correspond to certain data families in the ICIS Schema. The 7 ICIS reference table requests are:

**“GetICISAffiliationModuleCrossReferences”**

**“GetICISParameters”**

**“GetICISPollutants”**

**“GetICISUnits”**

**“GetICISUnitConversions”**

**“GetICISUnitGroups”**

**“GetICISUnitGroupCrossReferences”**

The 38 ICIS EDT-style (Electronic Data Transfer) services conform to the ICIS-NPDES XML Schema (goto <http://www.exchangenetwork.net/data-exchange/icis-npdes/> for more information and examples). During the development phase of the ICISDA project, stakeholders requested that the data format returned be the same format as the ICIS-NPDES XML Schema. Keep in mind though that older data returned from ICIS might not conform exactly to the current Schema, so if the intent of the user is to submit the XML back into ICIS, the user might need to edit the non-conforming data. For example, if a ScheduleViolationCode is returned in the GetICISComplianceScheduleData service, it might contain ‘C10’ or ‘C20’ values, but the ICIS Schema only accepts either ‘C30’ or ‘C40’. Another example is that some <EnforcementActionGovernmentContact> blocks returned in the GetICISFormalEnforcementActionData service, might not contain any <ElectronicAddressText> data, which is required by the ICIS XML Schema.

Similarly ICISDA mostly returns the raw data values stored in the ICIS database, which might not conform to the ICIS Schema. For example the <NumberOfReportUnits> values returned in GetICISBiosolidProgramReportData could be ‘5’, but the ICIS Schema wants ‘05’, so it is up to the user to convert the format to whatever system they are working with- their own system or ICIS or something else. The only exceptions to this raw data return are the values in the PermitStatusCode and StatusCode tags for Basic and General Permits as detailed in section 3.2.1 above.

Keep in mind also that the <Header> tag at the beginning of all returned XMLs will have an <Id> tag value of ‘ICISDA’. Since this user ID does not exist in ICIS, the user must change these generic values to their specific, registered user ID, if they want to submit the XML back into ICIS.

Most of the ICISDA services return only the current version of a NPDES Permit (version 0). However, four of these services return data from ALL versions of a permit by default, including previous versions: GetICISDischargeMonitoringReportData, GetICISDMRViolationData, and GetICISScheduleEventViolationData, GetICISSingleEventViolationData. This ensures that violation and other records that occurred during previous versions of the permit are also retrieved. GetICISParameterLimitsData also includes an optional IncludeAllVersions parameter that can be used to include records from all versions of a permit (defaults to return only current version permit data, so a user must specify a boolean value of ‘true’ to this IncludeAllVersions parameter if he wants to return parameter limits data from all versions).

The 38 ICIS data submission types are:

**“GetICISBasicPermitData”**

**“GetICISBiosolidPermitData”**

**“GetICISBiosolidProgramReportData”**

**“GetICISCAFOAnnualReportData”**

**“GetICISCAFOPermitData”**

**“GetICISComplianceMonitoringData”**

**“GetICISComplianceScheduleData”**

**“GetICISCSOEventReportData”**

**“GetICISCSOPermitData”**

**“GetICISDischargeMonitoringReportData”**

**“GetICISDMRViolationData”**

**“GetICISEnforcementActionMilestoneData”**

**“GetICISFormalEnforcementActionData”**

**“GetICISGeneralPermitData”**

**“GetICISInformalEnforcementActionData”**

**“GetICISLimitSetData”**

**“GetICISLocalLimitsReportData”**

**“GetICISMasterGeneralPermitData”**

**“GetICISNarrativeConditionScheduleData”**

**“GetICISParameterLimitsData”**

**“GetICISPermitTrackingEventData”**

**“GetICISPermittedFeatureData”**

**“GetICISPOTWPermitData”**

**“GetICISPretreatmentPerformanceSummaryData”**

**“GetICISPretreatmentPermitData”**

**“GetICISScheduleEventViolationData”**

**“GetICISSingleEventViolationData”**

**“GetICISSSOAnnualReportData”**

**“GetICISSSOEventReportData”**

**“GetICISSSOMonthlyEventReportData”**

**“GetICISStormWaterConstructionPermitData”**

**“GetICISStormWaterEventReportData”**

**“GetICISStormWaterIndustrialPermitData”**

**“GetICISStormWaterMS4LargePermitData”**

**“GetICISStormWaterProgramReportData”**

**“GetICISStormWaterMS4SmallPermitData”**

**“GetICISUnpermittedFacilityData”.**

Most of these services are synchronous Query services, and the results can be downloaded immediately upon completion. 11 of these services are Solicit services due to their potentially process-intensive nature, and the resulting XMLs for these are processed asynchronously, i.e., they must be downloaded at a later time depending on how the processing is queued and when they are completed (see Section 2.3 for more information). The 11 Solicit Services are:

**“GetICISBasicPermitData”**

**“GetICISCAFOPermitData”**

**“GetICISComplianceMonitoringData”**

**“GetICISDischargeMonitoringReportData”**

**“GetICISDMRViolationData”**

**“GetICISFederalComplianceMonitoringData”**

**“GetICISGeneralPermitData”**

**“GetICISLimitSetData”**

**“GetICISParameterLimitsData”**

**“GetICISPermitTrackingEventData”**

**“GetICISScheduleEventViolationData”.**

Please see section 3.2.1 Data Service-level Business Rules for more details on these Solicit services.

**RowId:** Any valid rowID value per the Node specification WSDL (e.g., -1, 0, or positive integer). For this query, a row is an element in the XML that represents one result that is returned in the SQL result set. The returned XML in turn is transformed into the ICIS XML Schema structure for a particular service, so a row cannot be represented exactly by a specific element in the final resulting XML (see section 4). This parameter is the starting row number to return for this invocation of the service.

**maxRows:** Any valid maxRows value per the Node specification WSDL (e.g., -1, or positive integer). For this query, this is the maximum number of substances (rows) to be returned for this invocation of the service.

### Parameters for the reference table requests

**Business rules for the reference table date parameters:**

If neither date is entered, the default fromDate is set to January 1, 2000 and the default toDate is set to the Oracle SYSDATE, which is calculated as the date when the query is run.

If only the fromDate is entered and no toDate is entered, the date range is calculated as the fromDate to the Oracle SYSDATE.

If no fromDate is entered and only the toDate is entered, the date range is calculated as January 1, 2000 to the given toDate parameter.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| fromDate | date | No | 10 characters | Represents a beginning date. This along with the toDate are used to create the date range (inclusive of the entered dates) to search for any updates to the records within that range. Dates must be entered in MM/DD/YYYY format. |
| toDate | date | No | 10 characters | Represents an end date. This along with the fromDate are used to create the date range (inclusive of the entered dates) to search for any updates to the records within that range. Dates must be entered in MM/DD/YYYY format. |

### Parameters for the non-reference table requests

**Business rules for the non-reference table input parameters:**

Because there are large variations in datasets between different states and other criteria, the burden is on the user to submit requests reasonable in size that will not time out. For example, although the GetICISDischargeMonitoringReportData service does not require a MonitoringPeriodEndDateBegin parameter, it should be entered along with the required MonitoringPeriodEndDateEnd parameter to create a date range that is within the limits of the processing load, depending on factors such as other criteria entered and the time of processing.

For string datatypes, the string can be partial matches, e.g., ‘TX’, ‘tx’ (case is insensitive), or ‘TX003’ for NPDESPermitNmbr, which will search for all occurrences of this substring within the parameter (‘%tx%’ will also search for ‘tx’ anywhere in the string, whereas ‘tx%’ will search for the occurrence of this term only in the beginning of the string).

The NPDESPermitNumber string is a required input parameter for all non-reference table services.

Code-type parameters (usually ending with ‘Code’) are programmed to accept multiple values as input, but must be separated by a comma with or without a space (because the code inputs must conform to the SQL IN operator). Text parameters, including ZipCode (although it has ‘Code’ in the name), do not qualify, because they are not part of reference code lists in the ICIS database. The NPDESPermitNumber field can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). The NPDESPermitNumber field in query-type services cannot include comma delimited values.

Valid input for the AgencyType parameter are ‘EPA’, ‘STATE’, and ‘TRIBE’ (can be lowercase). ‘EPA’ returns an AgencyTypeCode XML tag of ‘EP6’ (U.S. EPA),’EC6’ (EPA Contractor), or ‘EO6’ (Other – EPA). ‘STATE’ can return ‘ST6’ (State), ‘SC6’ (State Contractor), or ‘SO6’ (State – Other). ‘TRIBE’ returns ‘TR6’ (Tribal).

The date format that a user submits depends on the specific client application or website, which ultimately must be converted to the date format that is acceptable by the generated SQL statement, which is MM/DD/YYYY. Users on the Exchange Network Services Center website must enter all date parameters in MM/DD/YYYY format. The date format that is returned in the XML result file is in the YYYY-MM-DD format, which is the standard format in the ICIS Schema.

Each service has begin and end date parameters that can create a date range for when a record was last changed or updated in the ICIS database. These begin and end date parameters have names that correspond to each service but could be an abbreviation of the service name to account for the display limitations of the ENSC website, e.g., CSOEventReportChgDateBegin and CSOEventReportChgDateEnd can be entered to search for records updated (changed) in the database within this range for the GetICISCSOEventReportData.

#### GetICISBasicPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| FacilityName | string  | No |  |  |
| FacilityZipCode | string  | No |  |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermitDateChangedBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitDateChangedEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitEffectiveDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitEffectiveDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitExpirationDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitExpirationDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitIssuanceDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitIssuanceDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitStatusCode  | string  | No | 3 characters | Valid PermitStatusCodes are: 'EFF','EXP','PND','TRM','RET','NON','ADC' |
| PermitTypeCode  | string  | No | 3 characters | Valid PermitTypeCodes are: 'NPD','NGP','GPC','SNN','IIU','SIN','APR','UFT', but for Basic Permit types, they are APR, IIU, NPD, SIN. |

#### GetICISBiosolidPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| BiosolidCompChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| BiosolidCompChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| BiosolidTypeCode | string  | No | 3 characters |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISBiosolidProgramReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| BiosolidProgramRptChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| BiosolidProgramRptChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ReportCoverageEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ReportCoverageEndDateEnd | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISCAFOAnnualReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| CAFOAnnualRptChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CAFOAnnualRptChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ReportReceivedDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ReportReceivedDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISCAFOPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| CAFOClassificationCode | string | No | 3 characters |  |
| CAFOComponentChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CAFOComponentChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISComplianceMonitoringData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| CompMonitoringCategoryCode  | string  | No | 3 characters | Valid values: COM, IND, ALT |
| CompMonitoringChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CompMonitoringChangeDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CompMonitoringIdentifier | string | No | 7-25 characters | The ComplianceMonitoringIdentifier |
| FacilityName  | string  | No |  |  |
| FacilityZipCode  | string  | No |  |  |
| InspectionEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| InspectionEndDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| InspectionTypeCode  | string  | No | 3 characters |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISComplianceScheduleData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| ComplianceScheduleDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ComplianceScheduleDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ComplianceScheduleEventCode  | string  | No | 5 characters |  |
| ComplianceScheduleNumber  | number  | No | 3 digits | Integer 1 to 3 digits long |
| EnforcementActionId  | string  | No | 20 characters |  |
| FinalOrderId  | number  | No | 5 digits | Integer 1 to 5 digits long |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISCSOEventReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| CSOEventDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CSOEventDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CSOEventId | number | No | 2 digits | Integer between 1 and 99 |
| CSOEventReportChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CSOEventReportChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISCSOPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| CSOComponentChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CSOComponentChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISDischargeMonitoringReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType  | string  | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| DMRReportChangeDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| DMRReportChangeDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitSetDesignator  | string  | No | 2 characters | Can be a comma separated list, e.g., CT, DF |
| MonitoringLocationCode  | string  | No | 1 character |  |
| MonitoringPeriodEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| MonitoringPeriodEndDateEnd  | date  | Yes | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ParameterCode  | string  | No | 5 characters |  |
| PermittedFeatureId  | string  | No | 4 characters |  |
| SeasonNumber  | number  | No | 2 digits | Integers 0-12 |

#### GetICISDMRViolationData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType  | string  | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| DMRViolationChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| DMRViolationChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitSetDesignator  | string  | No | 2 characters | Can be a comma separated list, e.g., CT, DF |
| MonitoringLocationCode  | string  | No | 1 character |  |
| MonitoringPeriodEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| MonitoringPeriodEndDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ParameterCode  | string  | No |  |  |
| PermittedFeatureId | string  | No | 5 characters |  |
| SeasonNumber  | number  | No | 4 characters |  |
| ViolationCode  | string  | No | 2 digits | Integers 0-12 |

#### GetICISEnforcementActionMilestoneData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| EnfActionMilestoneChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| EnfActionMilestoneChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| EnforcementActionId | string  | No | 20 characters |  |
| MilestoneTypeCode | string  | No | 5 characters |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISFederalComplianceMonitoringData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| CompMonitoringCategoryCode  | string  | No | 3 characters | Valid values: COM, IND, ALT |
| CompMonitoringChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CompMonitoringChangeDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| CompMonitoringIdentifier | string | No | 7-25 characters | The ComplianceMonitoringIdentifier |
| FacilityName  | string  | No |  |  |
| FacilityZipCode  | string  | No |  |  |
| InspectionEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| InspectionEndDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| InspectionTypeCode  | string  | No | 3 characters |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISFormalEnforcementActionData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| EnforcementActionId  | string  | No | 20 characters |  |
| EnforcementActionTypeCode  | string  | No | 7 characters |  |
| FacilityName | string  | No |  |  |
| FacilityZipCode | string  | No |  |  |
| FinalOrderId  | number  | No | 5 digits | Integer between 1 and 5 |
| FormalEnfActionChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| FormalEnfActionChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISGeneralPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| FacilityName | string  | No |  |  |
| FacilityZipCode | string  | No |  |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermitDateChangedBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitDateChangedEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitEffectiveDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitEffectiveDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitExpirationDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitExpirationDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitIssuanceDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitIssuanceDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitStatusCode  | string  | No | 3 characters | Valid PermitStatusCodes are: 'EFF','EXP','PND','TRM','RET','NON','ADC' |

#### GetICISInformalEnforcementActionData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| EnforcementActionId  | string  | No | 20 characters |  |
| EnforcementActionTypeCode  | string  | No | 7 characters |  |
| FacilityName  | string  | No |  |  |
| FacilityZipCode  | string  | No |  |  |
| InformalEnfActionChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| InformalEnfActionChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |

#### GetICISLimitSetData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType  | string  | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| LimitSetChangeDateBegin  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitSetChangeDateEnd  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitSetDesignator  | string  | No | 2 characters | Can be a comma separated list, e.g., CT, DF |
| LimitSetStatusIndicator  | string  | No | 1 character | 2 value choices: S, U |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermittedFeatureId  | string  | No | 4 characters |  |

#### GetICISLocalLimitsReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType  | string  | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| LocalLimitsReportChgDateBegin | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LocalLimitsReportChgDateEnd | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ReportReceivedDateBegin | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ReportReceivedDateEnd | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISMasterGeneralPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermitChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitEffectiveDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitEffectiveDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitExpirationDateBegin  | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitExpirationDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitIssuanceDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitIssuanceDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitTypeCode | string  | No | 3 characters | Valid values are: NGP, SNN |
| PermitStatusCode | string  | No | 3 characters | Valid PermitStatusCodes are: 'EFF','EXP','PND','TRM','RET','NON','ADC' |

#### GetICISNarrativeConditionScheduleData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NarrativeConditionNumber  | number  | No | 3 digits | Integer between 1 and 999 |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermitScheduleChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitScheduleChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitScheduleDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitScheduleDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitScheduleEventCode  | string  | No | 5 characters |  |

#### GetICISParameterLimitsData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType  | string  | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| IncludeAllVersions | boolean  | No | 1 character | If ‘true’ is entered, will return records from previous versions of the permit as well as the current version. Acceptable values: ‘true’ or ‘false’ (case insensitive) |
| LimitBeginDateBegin | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitBeginDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitEndDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| LimitSetDesignator  | string  | No | 2 characters | Can be a comma separated list, e.g., CT, DF |
| MonitoringLocationCode  | string  | No | 1 character |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ParameterCode  | string  | No | 5 characters |  |
| ParameterLimitChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ParameterLimitChangeDateEnd  | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermittedFeatureId  | string  | No | 4 characters |  |
| SeasonNumber  | number  | No | 2 digits | Integers 0-12 |

#### GetICISPermittedFeatureData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermittedFeatureChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermittedFeatureChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermittedFeatureId | string | No | 4 characters |  |
| PermittedFeatureTypeCode | string  | No | 3 characters |  |

#### GetICISPermitTrackingEventData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PermitTrackEventChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitTrackEventChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitTrackingEventCode | string  | No | 3 characters |  |
| PermitTrackingEventDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PermitTrackingEventDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISPOTWPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| POTWCompChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| POTWCompChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISPretreatmentPerformanceSummaryData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PretreatPerfSummaryChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PretreatPerfSummaryChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PretreatPerfSummaryEndDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PretreatPerfSummaryEndDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISPretreatmentPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| ControlAuthorityPermitNumber  | string  | No | 9 characters |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| PretreatmtCompChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| PretreatmtCompChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ProgramApprovedDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ProgramApprovedDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ProgramRequiredIndicator | string  | No | 1 character | 6 value choices: C, R, Y, S, E, N (multiple values allowed) |

#### GetICISScheduleEventViolationData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| ComplianceScheduleNumber | number | No | 3 digits |  |
| EnforcementActionId | string  | No | 20 characters |  |
| FinalOrderIdentifier | number  | No | 5 digits |  |
| NarrativeConditionNumber | number | No | 3 digits | Integers 1-999 |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SchedEventViolChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SchedEventViolChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ScheduleEventCode | string  | No | 3 characters |  |
| ScheduleEventDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ScheduleEventDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ScheduleEventViolationCode | string  | No |  |  |

#### GetICISSingleEventViolationData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SingleEventViolationCode | string  | No | 5 characters |  |
| SingleEventViolationDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SingleEventViolationDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SingleEventViolChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SingleEventViolChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISSSOAnnualReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SSOAnnualRptChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOAnnualRptChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOAnnualRptRecdDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOAnnualRptRecdDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISSSOEventReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SSOEventId | number | No | 2 digits | Integer 1-99 |
| SSOEventRptChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOEventRptChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISSSOMonthlyEventReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SSOMonthlyReportYear | number | No | 4 digits |  |
| SSOMonthlyRptChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOMonthlyRptChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOMonthlyRptRecdDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SSOMonthlyRptRecdDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISStormWaterConstructionPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SWConstCompChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWConstCompChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISStormWaterEventReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SWEventIdentifier | number | No | 2 digits | Integer between 1 and 99 |
| SWEventReportChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWEventReportChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWEventSampledDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWEventSampledDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISStormWaterIndustrialPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SWIndusCompChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWIndusCompChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISStormWaterMS4LargePermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SWMS4LargeCompChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWMS4LargeCompChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISStormWaterMS4ProgramReportData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| ReportRecdDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| ReportRecdDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWMS4RptChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWMS4RptChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISStormWaterMS4SmallPermitData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType | string | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| SWMS4SmallCompChgDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| SWMS4SmallCompChgDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

#### GetICISUnpermittedFacilityData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | Required | Max Length | Notes |
| AgencyType  | string  | No | 5 characters | Valid AgencyTypes are 'EPA', 'STATE', and 'TRIBE'. |
| FacilityAddress | string  | No |  |  |
| FacilityCity | string  | No |  |  |
| FacilityName  | string  | No |  |  |
| FacilityStateCode | string  | No | 2 characters |  |
| FacilityZipCode  | string  | No |  |  |
| NPDESPermitNumber  | string  | Yes | 9 characters | Can include comma separated values if the service is a solicit-type service listed in Section 3.3 (again, they must be complete NPDES IDs, not wildcards). |
| UnpermittedFacilityChangeDateBegin | date  | No | 10 characters | Represents the begin date (inclusive) that is used with the corresponding end date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |
| UnpermittedFacilityChangeDateEnd | date  | No | 10 characters | Represents the end date (inclusive) that is used with the corresponding begin date (inclusive) to create the date range for this field. Dates must be entered in MM/DD/YYYY format. |

## Response

**Response:** CDX Node returns StatusResponseType to the Node Requestor with a CDX Query transaction id. Solicit requests respond with a Transaction ID that can be used to track status and download results in later requests.

**RowID:** The integer representing the position of the first substance returned in the full result set of the query. See the Node 2.0 specification for more information. For this query, a row is an element in the XML that represents one result that is returned in the SQL result set. The returned XML in turn is transformed into the ICIS XML Schema structure for a particular service, so a row cannot be represented exactly by a specific element in the final resulting XML (see section 4).

**RowCount:** The integer representing the total number of substances returned for this query. This may not be all of the substances selected for this query based upon parameters passed to the query; the total number returned may be limited by the maxRows input parameter, or by the ICIS application itself. Partners can continue to issue the query, increasing the rowID input parameter each time to retrieve all substances selected by the query. See the Node 2.0 specification for more information.

**Status**: "COMPLETED” if successful, “FAILED” if error occurs (e.g. when mistyping a required parameter)

**LastSet**: Boolean indicating whether there are any more rows (substances) to return.

**XML elements**: For the seven reference table services, the root element name is based on the specific service, following a convention of <’ICIS’+ServiceNameSingular+’List’>, e.g., <ICISParameterCodeList>. All non-reference table ICISDA services return the same XML root element, <Document>, along with a <Header> and a <Payload> elements but different child elements within the Payload element depending on the service requested. See the Schema Information Section below for more information.

# Schema Information

## Schema Structure

The first family of XML files that is processed for the ICIS Data Access data flow is the ICIS reference table data. Seven reference table XML files are available for download by users. These are: parameters, pollutants, units, unit conversions, unit groups, unit and group cross references, and affiliation module cross references. For each XML file type, a parent tag wraps one or more child tag(s) for the reference table that has been updated in ICIS during the date range that was queried. The XML format for the reference table files is based on the ICIS Data Access XML Schema. This XML schema specification contains information about the organization and restrictions of the various XML element tags in the result files. The production XML Schema is located at the following URL: <http://www.exchangenetwork.net/schema/icisda/1>.

For the remaining data families, the Schema referenced in the generated XML files is the latest ICIS XML Schema, and not the ICISDA Schema. This will ensure that the generated XML files validate against the current ICIS Schema specifications, if the user chooses to edit the XMLs in order to submit information back into the ICIS database using the ICIS-NPDES dataflow. However, there could possibly be data returned that do not validate against the ICIS Schema, and this is addressed in Section 3.3.

Because the results of a query are first generated in XML format, an application can be customized to convert this XML into a different format. For example, the Exchange Network Services Center website allows the user to view and save the results in HTML format.

## Example result XMLs

Examples of the seven ICISDA ICIS reference table XML result files are detailed below. For examples of the latest ICIS EDT (Electronic Data Transfer) submission XMLs, please visit <http://www.exchangenetwork.net/data-exchange/icis-npdes/>. Bold text represents a mandatory tag, green text represents a repeatable tag, blue text represents a mandatory child tag if the parent tag exists, and regular text represents an optional tag.

### PARAMETERS

**<ICISParameterCodeList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

<Parameter>

 <ParameterCode>12345</ParameterCode>

 <ParameterDescription>String</ParameterDescription>

 <PollutantCode>1</PollutantCode>

 <StatusFlag>A</StatusFlag>

 <UnitGroupCode>Str</UnitGroupCode>

 <PercentRemovalFlag>Y</PercentRemovalFlag>

 <PercentExceedenceFlag>Y</PercentExceedenceFlag>

 <SignificantNonComplianceFlag>1</SignificantNonComplianceFlag>

 <UpdatedDate>2011-09-15</UpdatedDate>

</Parameter>

**</ICISParameterCodeList>**

### POLLUTANTS

**<ICISPollutantCodeList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

<Pollutant>

 <PollutantCode>1</PollutantCode>

 <PollutantDescription>String</PollutantDescription>

 <PollutantSRSDescription>String</PollutantSRSDescription>

 <SRSIdentifier>String</SRSIdentifier>

 <PollutantCategoryCode>String</PollutantCategoryCode>

 <ChemicalFormula>String</ChemicalFormula>

 <ChemicalAbstractServiceNumber>String</ChemicalAbstractServiceNumber>

 <StatusFlag>A</StatusFlag>

 <EPAIdentifier>String</EPAIdentifier>

 <UpdatedDate>2011-09-15</UpdatedDate>

</Pollutant>

**</ICISPollutantCodeList>**

### UNITS

**<ICISUnitCodeList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

 <Unit>

 <UnitCode>12</UnitCode>

 <UnitDescription>String</UnitDescription>

 <UnitShortDescription>String</UnitShortDescription>

 <NumerousToCountFlag>T</NumerousToCountFlag>

 <StatusFlag>A</StatusFlag>

 <UpdatedDate>2011-09-15</UpdatedDate>

</Unit>

**</ICISUnitCodeList>**

### UNIT CONVERSIONS

**<ICISUnitConversionList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

<UnitConversion>

 <SourceUnitCode>xx</SourceUnitCode>

 <TargetUnitCode>xx</TargetUnitCode>

 <ConversionFactor>3.14159E+2</ConversionFactor>

 <StatusFlag>A</StatusFlag>

 <UpdatedDate>2011-09-15</UpdatedDate>

</UnitConversion>

**</ICISUnitConversionList>**

### UNIT GROUPS

**<ICISUnitGroupList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

<UnitGroup>

 <UnitGroupCode>Str</UnitGroupCode>

 <UnitGroupDescription>String</UnitGroupDescription>

 <StatusFlag>A</StatusFlag>

 <UpdatedDate>2011-09-15</UpdatedDate>

</UnitGroup>

**</ICISUnitGroupList>**

### UNIT AND GROUP CROSS REFERENCES

**<** **ICISUnitGroupCrossReferenceList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

<UnitGroupCrossReference>

 <UnitGroupCode>Str</UnitGroupCode>

 <UnitCode>St</UnitCode>

 <AcceptableStandard>String</AcceptableStandard>

 <ConcentrationQuantityFlag>C</ConcentrationQuantityFlag>

 <UpdatedDate>2011-09-15</UpdatedDate>

</UnitGroupCrossReference>

**</** **ICISUnitGroupCrossReferenceList>**

### AFFILIATION MODULE CROSS REFERENCES

**<ICISAffiliationModuleCrossReferenceList xmlns="http://www.exchangenetwork.net/schema/icisda/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.exchangenetwork.net/schema/icisda/1">**

<AffiliationModuleCrossReference>

 <AffiliationTypeCode>Str</AffiliationTypeCode>

 <AffiliationTypeDescription>String</AffiliationTypeDescription>

 <AffiliationStatusFlag>A</AffiliationStatusFlag>

 <AffiliationCategory>String</AffiliationCategory>

 <ModuleCode>Str</ModuleCode>

 <ModuleDescription>String</ModuleDescription>

 <ModuleStatusFlag>A</ModuleStatusFlag>

 <UpdatedDate>2011-09-15</UpdatedDate>

</AffiliationModuleCrossReference>

**</ICISAffiliationModuleCrossReferenceList>**

# Appendix A: Acronyms and Definitions

| **Acronym** | **Definition** |
| --- | --- |
| CAFO | Concentrated Animal Feeding Operation |
| CDX | Central Data Exchange |
| CSO | Combined Sewer Overflows |
| EPA | Environmental Protection Agency |
| FCD | Flow Configuration Document |
| DMR | Discharge Monitoring Report |
| ENSC | Exchange Network Services Center |
| ICIS | Integrated Compliance Information System |
| ID | Identification |
| MS4 | Municipal Separate Storm Sewer System |
| NAAS | Network Authentication Authorization Service |
| NPDES | National Pollutant Discharge Elimination System |
| NCC | National Computer Center |
| POTW | Publicly Owned Treatment Works |
| SSO | Sanitary Sewer Overflows |
| URL | Uniform Resource Locator |
| XML | Extensible Markup Language |