
Highway-Runoff Database

Data Dictionary: Table and Field Listing

Number of Tables	37
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Total Number of Fields	208
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Unique Key Fields	30
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Non-Key Fields	137
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Total Number of Records	50,258
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How to read the Data Dictionary listings:

Each table starts on a new page. The top of the page shows information about the table itself:

- Table Name**
- Number of fields**
- Current number of records at the time the dictionary was generated**
- Date of last update to the table at the time the dictionary was generated**
- Description of the table contents or function**

Below the table section, each field in the table is listed along with definition information:

- Field position (order number) within the table**
- Field Name**
- PK (checked if field is part of the Primary Key for the table)**
- FK (checked if field is a Foreign Key--pointing to data in a 'parent' table)**
- Rqd (checked if field is Required to have a value for each record in the table, if unchecked field is optional)**
- Data Type of the field**
- Size of the field (allowed number of characters for Text fields, for other data types it represents the number of bytes used for storage)**
- Default value for the field (usually refers to a foreign key value representing a selection from a domain table)**
- Description of the field**

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Table Name #Fields #Recs Last Updated:
tadEventSiteTraffic **3** **18** 8/29/05 3:55:45 PM

Table Description: **Water Quality: Event Traffic Volume**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 Site_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the study site
2 StormEvent_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the storm
3 IStormTraffic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Traffic in Vehicles during storm

Table Name #Fields #Recs Last Updated:
tasDataSetLab **2** **16** 8/29/05 3:55:45 PM

Table Description: **Water Quality: Association between a data set and a water-quality laboratory**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QWHighwayDataSet_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set
2 QWLaboratory_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the water-quality laboratory

Table Name #Fields #Recs Last Updated:
tasHighwayDataSetCitations **2** **23** 8/29/05 3:55:46 PM

Table Description: **Water Quality: Association between a data set and source materials**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QWHighwayDataSet_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set
2 Source_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the source documents used to obtain data for the model

Table Name #Fields #Recs Last Updated:
tasQAQCEMC **2** **0** 8/29/05 3:55:46 PM

Table Description: **QA/QC: Association between a QA/QC value and an EMC value**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QAQCSample_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the QA/QC Sample Value
2 EMC_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies an event-mean concentration value

Table Name #Fields #Recs Last Updated:
tasQAQCSite **2** **0** 8/29/05 3:55:46 PM

Table Description: **QA/QC: Association between a QA/QC value and a data collection site**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QAQCSample_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the QA/QC Sample Value
2 Site_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the study site

Table Name #Fields #Recs Last Updated:
tasSedimentStorm **2** **0** 8/29/05 3:55:46 PM

Table Description: **Sediment Quality: Association between a sediment sample and a storm or storms**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedimentSample_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collected in the field
2 StormEvent_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the storm

Table Name #Fields #Recs Last Updated:
tblCitation **6** **23** 8/29/05 3:55:46 PM

Table Description: **Details of citation information for all reports**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 Source_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the source documents used to obtain data for the model
2 tAuthors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	255		The authors of the report.
3 tYearOfPublication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		The year the report was published.
4 tTitle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		The title of the report.
5 tCitationSource	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		The journal/book, volume, and page numbers of the report.
6 Citation_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		Key which uniquely associates the citations in this table with a specific report in the NDAMS bibliography (Citation_ID – tblCitation).

Table Name #Fields #Recs Last Updated:
tblEMCValues **10 39713 8/29/05 3:55:50 PM**

Table Description: **Water Quality: Highway runoff Event Mean Concentration values**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 EMC_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies an event-mean concentration value
2 Site_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the study site
3 StormEvent_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the storm
4 Parameter_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the USEPA STORET code for this parameter
5 AnalysisMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that Uniquely describes a laboratory analysis method
6 CollectionMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that Uniquely describes the sample collection method
7 tEMCQual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		EMC Qualification Code
8 sEMCValue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Reported event-mean concentration (EMC) value
9 sHoldingTime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Holding time between initial aliquot collection to final processing, hours
10 tEMCComment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		Comments

Table Name #Fields #Recs Last Updated:
tblQAQCData **11** **0** 8/29/05 3:55:50 PM

Table Description: **QA/QC: Quality-Assurance Data for Chemistry Data**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QAQCSample_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the QA/QC Sample Value
2 QAQCSampleType_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the type of QA/QC Sample
3 QWHighwayDataSet_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set
4 dtmEventDate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date/Time	8		The starting date/time for event
5 Parameter_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the USEPA STORET code for this parameter
6 AnalysisMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that Uniquely describes a laboratory analysis method
7 CollectionMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that Uniquely describes the sample collection method
8 tQAQCQual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		EMC Qualification Code
9 sQAQCValue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Reported event-mean concentration (EMC) value
10 sHoldingTime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Holding time between initial aliquot collection to final processing, hours
11 tQAQCComment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		Comments

Table Name #Fields #Recs Last Updated:
tblQWHighwayDataSet **3** **7** 8/29/05 3:55:50 PM

Table Description: **Water Quality: Information identifying the source of highway runoff statistics, used for selecting data**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QWHighwayDataSet_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set
2 tQWHighwayDataSet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	250		Highway runoff-quality data set descriptor
3 tPeriodofRecord	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	100		Period of record for highway-runoff-quality data set

Table Name #Fields #Recs Last Updated:
tblQWHighwayDataSetQAQC **13** **6** 8/29/05 3:55:50 PM

Table Description: **QA/QC: A QA/QC Summary by data set, used for selecting data**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QWHighwayDataSet_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set
2 bQualityPlan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Documented Quality Plan
3 bPrecipMeasure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document precipitation measurement methods
4 bFlowMeasure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document runoff flow measurement methods
5 bSampling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document sampling methods
6 bCompositing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document samplecompositing methods for EMCs
7 bProcessing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document sample processing methods
8 bEquipmentBlank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document equipment blanks
9 bFieldBlank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document field, atmospheric, and or trip blanks
10 bFieldRepDup	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document field replicate/duplicate samples
11 bProcessingBlank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Document source water, filter, and or preservation blanks
12 bLaboratoryQAQC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes/No	1		Laboratory QA/QC by lab and or study

13 bDataProcessingQAQC

Yes/No

1

QA/QC in the data
handling and storage
process

Table Name #Fields #Recs Last Updated:
tblQWHighwaySites **42** **103** 8/29/05 3:55:50 PM

Table Description: **Water Quality: highway-runoff-quality data collection site information.**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 Site_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the study site
2 tSiteName	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	255		The name of the site as referred to in the source material.
3 QWHighwayDataSet_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set
4 State_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that uniquely identifies the study State. Identifies the name of the state where the study was done.
5 tCountyCity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	100		The name of the county and/or city where the study was conducted.
6 tLocationDescription	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		Text description of the study site
7 tHighwayMilePost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		The highway milepost identifying the site
8 dLatitude	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		The estimated latitude of the study site
9 dLongitude	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		The estimated longitude of the study site
10 dLatLongAccuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		Decimal latitude-longitude accuracy in double precision decimal degrees
11 tLatLongDatum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		Decimal latitude-longitude datum

12	sADT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4		Average Daily Traffic in Vehicles Per Day
13	dDrainageArea	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Double)	8		Drainage Area (Acres)
14	sImperviousFraction	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4		The fraction of the drainage area that is impervious (range 0.0-1.0)
15	lHighwayTrafficLanes	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Long)	4		Total number of traffic lanes for the highway
16	lMonitoredTrafficLanes	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Long)	4		Number of traffic lanes for the highway that drain to the sampling point
17	sLaneWidth	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4		Width of one travel lane (feet)
18	sLengthOfRoad	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4		The total length of the road surface being drained to the sampling point (feet)
19	PavementType_ID	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Number (Integer)	2	0	Key that uniquely identifies the Pavement Type.
20	tCurb	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	50	"U"	Text indicating if there is a curb or raised berm at the edge of the road
21	SectionType_ID	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Number (Integer)	2	0	Key that uniquely identifies the highway Section Type.
22	DrainageSystemType_ID	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Number (Integer)	2	0	Key that uniquely identifies the Drainage System Type.
23	tLandUseType	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	255		The type of land use urban, non-urban, unknown
24	tLandUseClass	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	255		Land use descriptive detail
25	sAvgAnnualPrecip	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4		Average Annual Precipitation in inches
26	sAvgWindSpeed	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Long)	4		Average Annual wind speed in ft/sec

27	INumberOfEvents	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Long)	4	Total number of storm events
28	INumberOfSnowEvents	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Long)	4	Total number of storm events with snow
29	tBMP	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	250	Structural best management practices upstream of sampling point
30	iBeginMonth	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Integer)	2	First month of monitoring efforts
31	iBeginYear	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Integer)	2	First year of monitoring efforts
32	iEndMonth	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Integer)	2	Last month of monitoring efforts
33	iEndYear	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Integer)	2	Last year of monitoring efforts
34	sAltitude	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4	Altitude of Gage/land surface (feet above Datum)
35	sAltitudeAccuracy	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4	Altitude accuracy (feet)
36	tAltitudeDatum	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	50	Altitude datum
37	tReceivingWaterName	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	250	Local name of receiving water
38	tHydrologicUnitCode	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	50	Hydrologic Unit Code (HUC)
39	tUSEPARiverReach	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	50	U.S. Environmental Protection Agency River Reach and Designation (RF1 or RF3)
40	mHighwaySiteNarrative	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Memo	-	Narrative description of the highway site
41	tSourceSiteID	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	50	The data source SiteID
42	tDataQualifier	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	250	Data Qualifications

Table Name #Fields #Recs Last Updated:
tblQWLab **5** **18** 8/29/05 3:55:50 PM

Table Description: **Water Quality Laboratory information**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QWLaboratory_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the water-quality laboratory
2 tQWLabName	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	250		The water-quality laboratory
3 tQWLabAddress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		The location of the laboratory
4 tLabCertificationNumber	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		The laboratory certification number colon delimited if multiple
5 tLabCertificationOrg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		The state or organization certifying lab colon delimited if multiple

Table Name	#Fields	#Recs	Last Updated:
tblSedimentAnalysis	8	0	8/29/05 3:55:50 PM

Table Description: **Sediment Quality: Results of sediment-quality analysis**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedimentAnalysis_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the sediment-subsample analysis
2 SedimentSubSample_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-subsample
3 Parameter_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the USEPA STORET code for this parameter
4 AnalysisMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that uniquely describes a laboratory analysis method
5 SedimentDigestionMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that uniquely identifies the sediment digestion method
6 tSedAnalysisQual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		Analysis qualification code
7 sSedAnalysisValue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Reported sediment concentration value
8 tSedAnalysisComment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		Comments

Table Name #Fields #Recs Last Updated:
tblSedimentSample **9** **0** 8/29/05 3:55:50 PM

Table Description: **Sediment Quality: Sediment sample description**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedimentSample_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the sediment-sample collected in the field
2 SedimentSite_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collection site
3 tSedSampleName	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		Sediment sample name/number
4 dtmSedSampleDate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Date/Time	8		Date and time of sediment sample collection
5 sSampleMass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Total mass of sediment sample, in grams
6 tSedSampleDescription	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Sediment sample description
7 SedimentSampleMatrix_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample matrix
8 SedimentSampleType_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample type
9 SedimentSampleMethod_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collection method

Table Name #Fields #Recs Last Updated:
tblSedimentSampleSite **9** **0** 8/29/05 3:55:50 PM

Table Description: **Sediment Quality: Sediment sample collection site description**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedimentSite_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collection site
2 Site_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the study site
3 tSedimentSiteName	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	100		Sediment site name
4 tSampleSiteDesc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Sediment site description
5 SedSiteType_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collection site type
6 dLatitude	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		The estimated latitude of the study site
7 dLongitude	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		The estimated longitude of the study site
8 dLatLongAccuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Double)	8		Decimal latitude-longitude accuracy in double precision decimal degrees
9 tLatLongDatum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		Decimal latitude-longitude datum

Table Name #Fields #Recs Last Updated:
tblSedSubSample **9** **0** 8/29/05 3:55:50 PM

Table Description: **Sediment Quality: Sediment subsample physical description**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedimentSubSample_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the sediment-subsample
2 SedimentSample_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collected in the field
3 tSedSubSampleDesignation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		Sediment-subsample identifying designation
4 SedimentSubSampleType_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	1	Key that uniquely identifies the sediment-subsample type
5 sSubSampleMass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Sediment-subsample mass, in grams
6 sSubSampleMinGrainSize	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Sediment-subsample minimum grain size, in millimeters
7 sSubSampleMaxGrainSize	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Sediment-subsample maximum grain size, in millimeters
8 sSubSampleMinDepth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Sediment-subsample minimum depth, in millimeters
9 sSubSampleMaxDepth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Sediment-subsample maximum depth, in millimeters

Table Name #Fields #Recs Last Updated:
tblStormEvent **16** **2650** 8/29/05 3:55:50 PM

Table Description: **Water Quality: Storm event definition**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 StormEvent_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the storm
2 Site_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the study site
3 EventType_ID	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4	0	Key that uniquely identifies the storm type
4 tSourceEventID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		Data source storm identification
5 dtmEventDate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Date/Time	8		The starting date/time for event
6 sDurationHours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event duration in hours
7 sEventPVVolume	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event precipitation in inches of water
8 sMaxPIIntensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event maximum precipitation in inches
9 sMaxPIUnit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		Event maximum precipitation measurement duration
10 sAntecedentDry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event antecedent dry period in days
11 sRunoffDuration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event runoff duration in hours
12 sRunoffVolume	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event runoff volume in cubic feet
13 sMaxRunoffPeakFlow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Event runoff peak flow volume in cubic feet per second
14 sSampledDuration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Sampled event runoff duration hours

15	sSampledVolume	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Number (Single)	4	Sampled event runoff volume in cubic feet
16	tEventNotes	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Text	250	Notes about event

Table Name	#Fields	#Recs	Last Updated:
tdmYNU	1	3	8/29/05 3:55:50 PM

Table Description: **List of choices (yes, no, or unknown) for data entry (multiuse)**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 YNU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	1		A list of choices for data entry.

Table Name #Fields #Recs Last Updated:
tdsAnalysisMethod **7** **76** 8/29/05 3:55:50 PM

Table Description: **Water Quality: The laboratory analysis method see the National Environmental Methods Index <http://www.nemi.gov/>**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 AnalysisMethod_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that Uniquely describes a laboratory analysis method
2 tAnalysisMethod	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		The alphanumeric analysis method
3 tMethodOrganization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		The organization documenting the method
4 tMethodReference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Memo	-		The reference describing the method
5 sMethodDetectLimit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		The method detection limit
6 sMethodReportingLimit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		The method reporting limit
7 tLimitUnits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		The method detection/reporting limit units

Table Name	#Fields	#Recs	Last Updated:
tdsCollectionMethod	2	3	8/29/05 3:55:50 PM

Table Description: **Water Quality: Sample collection method**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 CollectionMethod_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that Uniquely describes the sample collection method
2 tCollectionMethod	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		The sample collection method

Table Name	#Fields	#Recs	Last Updated:
tdsDrainageSystemType	2	5	8/29/05 3:55:50 PM

Table Description: **Highway Site: List of drainage system types in the area of study**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 DrainageSystemType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Integer)	2		Key that uniquely identifies the Drainage System Type.
2 DrainageSystemType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	20		A structure, natural or manmade, that removes runoff from the drainage area, such as a swale, pipe, combined sewer, and storm drain.

Table Name	#Fields	#Recs	Last Updated:
tEventType	2	5	8/29/05 3:55:50 PM

Table Description: **Water Quality: Event Type**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 EventType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the storm type
2 tEventType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		The storm event type

Table Name	#Fields	#Recs	Last Updated:
tdsPavementType	2	5	8/29/05 3:55:50 PM

Table Description: **Highway Site: List of materials used to surface paved areas**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 PavementType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Integer)	2		Keythat uniquely identifies the Pavement Type.
2 tPavementType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	20		The materials used to cover the highway surface, such as concrete or asphalt.

Table Name #Fields #Recs Last Updated:
tdsQAQCSampleType **3** **21** 8/29/05 3:55:50 PM

Table Description: **Water Quality: QA/QC sample types from USGS BQA Memos 90.03, 92.01 and 95.01 to use for storing QC samples in NWIS**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QAQCSampleType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the type of QA/QC Sample
2 tSampleName	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		The name of the type of sample
3 tSampleDefinition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	255		The type of the sample

Table Name	#Fields	#Recs	Last Updated:
tdsSectionType	2	7	8/29/05 3:55:50 PM

Table Description: **Highway Site: List of types of road sections**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SectionType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Integer)	2		Key which uniquely identifies the highway Section Type.
2 SectionType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	20		The local topography of the road section being studied.

Table Name #Fields #Recs Last Updated:
tSedSedimentSiteType **3** **22** 8/29/05 3:55:50 PM

Table Description: **Sediment Quality: Sample collection site type and definition**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedSiteType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the sediment-sample collection site type
2 tSedSiteType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	100		Sediment-sample collection site type
3 tSedSiteTypeDefinition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Sediment-sample collection site type Definition

Table Name #Fields #Recs Last Updated:
tdsSedSampleMatrix **3** **4** 8/29/05 3:55:50 PM

Table Description: **Sediment Quality: The type of sediment-sample matrix**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 SedimentSampleMatrix_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample matrix
2 tSedSampleMatrix	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		Sediment-sample matrix
3 tSedSampleMatrixDefinition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Sediment-sample matrix definition

Table Name	#Fields	#Recs	Last Updated:
tSedSampleType	3	2	8/29/05 3:55:50 PM

Table Description: **Sediment Quality: The type of sediment-sample**

	Field Name	PK	FK	Rqd	Type	Size	Default	Description
1	SedimentSampleType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample type
2	tSedSampleType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		Sediment-sample type
3	tSedSampleTypeDefinition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Sediment-sample type definition

Table Name #Fields #Recs Last Updated:
tSedSubSampleType **3** **9** 8/29/05 3:55:50 PM

Table Description: **Sediment Quality: Sediment subsample type and definition**

	Field Name	PK	FK	Rqd	Type	Size	Default	Description
1	SedimentSubSampleType_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the sediment-subsample type
2	tSedimentSubSampleType	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		The sediment-subsample type
3	tSedSubSampleDefinition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		The sediment-subsample definition

Table Name #Fields #Recs Last Updated:
tdsUSEPAParameterCodes **4** **7427** 8/29/05 3:55:51 PM

Table Description: **Water Quality: USGS Parameter Code Definitions File downloaded from <http://nwis.waterdata.usgs.gov/nwis/pmcodes/> on 2004-09-23**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 Parameter_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key that uniquely identifies the USEPA STORET code for this parameter
2 tPcode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	8		The five digit, zero-filled USEPA STORET code for this parameter
3 tParameterGroup	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		The parameter group
4 tParameterName	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	250		The full text description of the parameter

Table Name	#Fields	#Recs	Last Updated:
tdxSedDigestion	3	4	8/29/05 3:55:51 PM

Table Description: **Sediment Quality: Preanalysis sediment digestion methods**

	Field Name	PK	FK	Rqd	Type	Size	Default	Description
1	SedimentDigestionMethod_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment digestion method
2	tSedDigestionMethod	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	250		Sediment digestion method
3	tSedDigestionMethodDef	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Definition of sediment digestion method

Table Name #Fields #Recs Last Updated:
tdxSedSampleMethod **3** **19** 8/29/05 3:55:51 PM

Table Description: **Sediment Quality: The type of sediment-sample collection method**

	Field Name	PK	FK	Rqd	Type	Size	Default	Description
1	SedimentSampleMethod_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the sediment-sample collection method
2	tSedSampleMethod	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50		Name of sediment-sample collection method
3	tSedSampleMethodDefinition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	250		Sediment sampling method definition

Table Name #Fields #Recs Last Updated:
tdxState **4** **69** 8/29/05 3:55:51 PM

Table Description: **A list of states and provinces in which samples were taken**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 State_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AutoNumber (Long)	4		Key which uniquely identifies the study State.
2 StateAbbreviation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	4		The two-letter postal abbreviation for one of the 50 states.
3 State	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Text	30		The name of the state where the study was done.
4 StateFIPSCode	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	3		The two digit Federal Information Processing Standards (FIPS) code for one of the 50 states.

Table Name #Fields #Recs Last Updated:
ttblMyROS **5** **0** 8/29/05 10:20:02 A

Table Description: **Temporary Table: Regression on order statistics ROS estimates**

	Field Name	PK	FK	Rqd	Type	Size	Default	Description
1	sREMCValue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Reported event-mean concentration (EMC) value
2	tEMCQual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text	50		EMC Qualification Code
3	sEEMCValue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Reported or estimated event-mean concentration (EMC) value
4	sPPValue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Estimated plotting position value
5	sEZscore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number (Single)	4		Estimated normal scores

Table Name	#Fields	#Recs	Last Updated:
ttblMyTempDataSets	1	0	8/29/05 3:55:51 PM

Table Description: **Temporary Table: Selected Data Sets**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 QWHighwayDataSet_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies a highway water-quality-statistics data set

Table Name	#Fields	#Recs	Last Updated:
ttblMyTempDataSites	1	0	8/29/05 3:55:51 PM

Table Description: **Temporary Table: Selected Data Sites**

Field Name	PK	FK	Rqd	Type	Size	Default	Description
1 Site_ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Number (Long)	4		Key that uniquely identifies the study site