

There needs to be some guidance on how to answer these questions. These answers are all only likely answers unless the inspector is there at the time of the illicit discharge - everything else is an assumption based upon the inspection. The legal implications must be clearly written in the Permit.

## APPENDIX 14 – IDDE Reporting data and format

Updated on 9/21/18 to reflect changes made to the form within the WQwebIDDE application

*Permittees are required to submit the following information with the online annual report form, or an alternative format provided by Ecology if requested, pursuant to Special Condition S9.A.*

This is the complete list of information that all Permittees are required to report for each IDDE incident found, reported to, or investigated by the Permittee. Each Permittee may either use their own system or the WQWebIDDE form for recording this data. If using your own tracking system, this information must be provided in an electronic format that follows the data schema provided at the end of this document and is easily transferred to a database. Ecology prefers a zipped .xml. An excel spreadsheet or space- or tab-delimited file that follows the data schema is acceptable.

A complete report will include a separate entry (even if left blank) for every line below and must use the precise verbiage and spelling below. For all incidents where the answer to #7 is no, #8 is required but #9-15 are not required. Each field that ends in a colon (":") is followed by a text answer. All dates are in MM/DD/YYYY format.

Is the intent of this form to be filled out upon first discovery or after full investigation and determination?

Why is this necessary for data analysis?

1. ~~Jurisdiction name and permit number:~~

Unclear why the jurisdictions individual tracking is needed for data analysis. Remove.

2. ~~Incident ID assigned by jurisdiction:~~

3. ~~Date of incident:~~

4. Date incident was reported to you:

Not always know. And why is this necessary. Suggest removing and just keep when incident was reported.

5. Date of beginning your response:

6. Date of end of your response

- Date Response Ended:
- Final resolution?
  - Yes
  - No
- If transferred to another party, specify that party:

It is unclear when No would ever be chosen. Once a response is initiated, is it not required that it will be resolved? I think what you are trying to get out of this is if the Permit terms were met for investigation. If that is the case, use the Permit language here. And how does this help with regional prioritization? and these boxes don't seem to function properly on the web form

7. Discharge to MS4?

- Yes
  - ~~Estimated Quantity~~
  - ~~Unknown~~

too subjective. How will this be used?

- ~~Sheen~~ ← Is this a yes/no?
- ~~Estimated amount of discharge:~~ ← What are implications if the estimate is not accurate?
  - ~~Gallons~~ ← On the web app you can select a negative amount of discharge, please explain intent.
  - ~~Pounds~~
  - ~~Cubic feet~~
- ~~Discharge Frequency~~ ← Why? What are implications if the response is not accurate?
  - ~~Continuous or ongoing~~
  - ~~Intermittent~~
  - ~~One-time~~
- ~~Receiving water~~ ← What are you supposed to put here? The name? The type? Yes/No?
- No
  - ~~No problem found~~ ← This should be one of the first questions.
  - ~~Cleaned up~~ ← what does this mean? it went to ms4 and was cleaned? or cleaned before MS4. so it's not an illicit discharge then.
  - ~~Discharge to combined or sanitary sewer~~
  - ~~Discharge to private or other sewer~~ ← stormwater? what does other sewer mean?
  - ~~Discharge to ground~~
  - ~~Other~~
- Unknown ← This should be the most popular choice because it is not likely that inspector will be there during the incident so it is likely always unknown.

**8. How was the incident discovered or reported to you?**

- Referral
  - ~~Pollution hotline~~
  - ~~Direct report to your staff~~ ← How will these help answer any of the questions.
  - ~~Staff referral~~
  - ~~Other agency referral~~
  - ~~ERTS~~ ← Would ERTS send a spill to us?
- IDDE field observation ← What is the difference between the IDDE field observation and a MS4 inspection?
- Business Inspection
- Construction Inspection ← MS4 or NPDES? and what if both
- MS4 Inspection ← How will these help answer any of the questions.
  - ~~Catch basin or manhole~~
  - ~~Outfall~~
  - ~~Stormwater BMP~~ ← Permanent or source control or construction or all?

- ~~Other MS4 Inspection~~
    - ~~Explain:~~
  - Other Inspection
    - Explain:
  - Other
    - Explain:
9. **G3 notification?** (G3 notification required?)
- Yes
    - ERTS case number:
  - No
10. **Incident location** (provide at least one)
- ~~Street Address~~
    - ~~Street:~~
    - ~~City:~~
    - ~~State:~~
    - ~~Zip:~~
  - Nearest Intersection:
  - Tax Parcel:
  - Latitude/Longitude
    - Latitude:
    - Longitude:
11. **Pollutants identified** (select all that apply, explain if needed)
- ~~None found~~
  - Unconfirmed, unspecified, or not identified
  - Solid waste
    - ~~Trash~~
    - ~~Sediment/soil~~
    - ~~Cement, concrete, lime, or plaster~~
    - ~~Yard waste or other plant or wood waste~~
    - ~~Food waste~~
    - ~~Pet waste or human waste~~

How different than other. Also seems duplicative of Other MS4 Inspection.

How will this information be used?

The incident could be several locations as revealed by a source trace; what incident location is this referring to?  
This could be potential liability

Address not recommended.

Explain what is meant by provide at least one.

explain only allowed under other

What are the implications of mis-characterizing a pollutant? Without extensive training and specialized equipment it is not possible to correctly identify pollutants with accuracy.

Already answered under question #7.

The result for finding solid waste is the same so why include the type?

- ~~Carpet cleaning waste~~
  - ~~Roofing materials~~
  - ~~Road tar~~
  - Liquid waste
    - Vehicle oil, fuel, or other lubricant ← Under Oil too.
    - Antifreeze or other coolant
    - Paint
  - Sewage/septage
  - Oil
    - Vehicle ~~oil, fuel, or other lubricant~~
    - Food ~~preparation oil~~
    - Heating oil or kerosene ← Not easy to identify. Outcome for cleanup is same so why distinguish.
  - Chemical ← Do you also check solid or liquid if you find chemical?
    - Household or industrial chemical ← This could be under many categories. Like foam, oils, pesticides, refrigerants, etc.
      - Explain:
      - Pesticide or herbicide
      - Fertilizer
  - Foam
    - ~~Soap/detergent~~
    - ~~Fire-fighting foam~~ ← Too specific.
    - ~~Other or unknown foam~~
  - Other
    - ~~PCBs~~
    - ~~Refrigerant~~ ← same as household chemical
    - ~~Chlorinated water~~ ← same as sewerage? how do you find bacteria during a site investigation?
    - ~~Bacteria~~ ← explain only allowed under other.
  - Other not listed
    - Explain:
- 12. Source or cause** (select all that apply, explain if needed)
- Not applicable ← when is this the answer?
  - Not identified
  - Illicit connection

- Dumping
  - Spill
  - Construction activity
    - Construction BMP failure
  - Structural BMP failure
  - Vehicle related
    - Fueling
    - Vehicle collision/accident
    - Auto repair
    - Vehicle washing
    - Vehicle leakage/fluids
  - Improper business operation or activity
    - Equipment cleaning
    - Pressure washing
    - Leaking or abandoned container/dumpster
    - Drive-thru
    - Mobile business
      - Explain:
    - Retail operations
    - Restaurant
    - Non-emergency firefighting or training
    - Logging
    - Livestock
    - Other
      - Explain:
  - ~~Allowable discharge~~
    - ~~Diverted stream flow~~
    - ~~Flow from riparian habitat or wetland~~
    - ~~Uncontaminated ground water or spring water~~
    - ~~Foundation or footing drain~~
    - ~~Uncontaminated water from crawl space pump~~
    - ~~Air conditioning condensation~~
- could be part of vehicle related, construction, improper business operations, spill is very broad.
- always the answer - no drop down needed.
- This portion is confusing because of the mix of activities and business types. Revise list to just be activities.
- drive-thru same as restaurant.
- This could be the same as all of the options in this list.
- not needed because this would not be an IDDE or just put allowable discharge upfront as an option of not being IDDE

- ~~Irrigation water from agricultural source~~
- ~~Emergency firefighting~~
- ~~Conditionally allowed discharge~~
  - ~~Potable water~~
  - ~~Water line flushing or testing~~ ← why include if not IDDE.
  - ~~Lawn watering or other irrigation~~
  - ~~Dechlorinated pool/spa water~~
  - ~~Street/sidewalk wash water~~
- ~~Surface runoff~~ ← again, not IDDE
  - ~~Due to drainage or grade conditions~~
  - ~~Stormwater or flood water~~
  - ~~Groundwater pumping~~
  - Broken or clogged water or sewer line
  - Other
    - Explain: ← make own surfacing effluent category not called surface runoff.
  - Septic system ←
  - Other
    - Explain: ← explain only allowed under other

**13. Source tracing approach used** (select all that apply, explain if needed) ←

- Not applicable ← do you always have to say this if not an IDDE? When is this used?
- Visual observation
- Smell/odor
- Map analysis
- ~~Further inspection or reconnaissance~~ ← this is implied as happening already.
- Indicator testing
  - Flow/discharge
  - Sheen/oil
  - Floatables
  - Detergent or surfactants
  - Ammonia
  - Color ← Already called out above as smell/odor and visual observation.
  - Odor

- pH
- Temperature
- Turbidity
- Hardness
- Nitrates
- Potassium
- Specific conductivity
- Bacteria
- Chloride/chlorine
- Fluoride
- Carbon monoxide
- Hydrogen sulfide
- Other
  - Explain:
- Dye testing
- Pressure testing
- Smoke testing
- Video inspection
- Canine detection
- Optical brightener
- Sand bagging
- Other
  - Explain:

source tracing approach is probably most useful as a fill in narrative specific to the IDDE. This captures some specific elements but is too much for a pull down.



in there twice.

explain not available with every option



**14. Correction/elimination methods used** (select all that apply, explain if needed)

- No action needed
  - Explain:
- Clean-up
- Education/technical assistance
- Add or modify operational BMP
- Add or modify structural BMP
- Enforcement:
  - Verbal notice

all the other questions should explain this already.



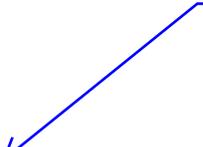
does this mean clean up by Permittee? This should always be chosen.



Enforcement may happen at a later time - how many times is Permittee expected to add data to this report?

- Written warning
- Correction notice
- Stop work order
- Legal notice
- Penalty or fine
- Referred to other agency or department
- Follow-up or further investigation
- Problem not abated
  - Explain:
- Other
  - Explain:

This question was asked in previous sections - how do you know whether to check here or in the other section or both?



you wouldn't have a closed date if follow-up was needed or if problem was not abated.



**15. Field notes, explanations, and/or other comments**

- Notes:

IDDE XML Schema Document (IDDE.xsd)

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<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="IDDEEvents">
    <xs:complexType>
      <xs:sequence>
        <xs:element maxOccurs="unbounded" name="IDDEEvent" type="IDDEEvent" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

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    <xs:annotation>
      <xs:documentation>One particular IDDE event</xs:documentation>
    </xs:annotation>
    <xs:all>
      <xs:element maxOccurs="1" minOccurs="1" name="Jurisdiction">
        <xs:annotation>
          <xs:documentation>Permit Number</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="9"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>
</xs:schema>
```

```
<xs:element maxOccurs="1" minOccurs="1" name="IncidentId" type="xs:string">
```

```
<xs:annotation>
```

```
<xs:documentation>Incident ID</xs:documentation>
```

```
</xs:annotation>
```

```
<xs:simpleType>
```

```
<xs:restriction base="xs:string">
```

```
<xs:maxLength value="50"/>
```

```
</xs:restriction>
```

```
</xs:simpleType>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="DateIncident" type="SqlDate">
```

```
<xs:annotation>
```

```
<xs:documentation>Date of incident</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="DateReported" type="SqlDate">
```

```
<xs:annotation>
```

```
<xs:documentation>Date incident reported</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="DateResponseBegin" type="SqlDate">
```

```
<xs:annotation>
```

```
<xs:documentation>Date incident response began</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="Resolved" type="Resolution">
```

```
<xs:annotation>
```

```
<xs:documentation>Was incident resolved here?</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="Discharge" type="Discharge">
```

```
<xs:annotation>
```

```
<xs:documentation>Discharge to MS4 details</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="Discovered" type="Discovered">
```

```
<xs:annotation>
```

```
<xs:documentation>How was the incident discovered?</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="G3" type="G3Notification">
```

```
<xs:annotation>
```

```
<xs:documentation>Does this incident require a G3 notification? What is its ERTS  
number?</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="Location" type="Location">
```

```
<xs:annotation>
```

```
<xs:documentation>Location of discharge</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:element>
```

```
<xs:element maxOccurs="1" minOccurs="0" name="Pollutants" type="Pollutant">
  <xs:annotation>
    <xs:documentation>Pollutants identified</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element maxOccurs="1" minOccurs="0" name="Sources" type="Source">
  <xs:annotation>
    <xs:documentation>Source or cause</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element maxOccurs="1" minOccurs="0" name="Traces" type="Trace">
  <xs:annotation>
    <xs:documentation>Source Tracing</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element maxOccurs="1" minOccurs="0" name="Corrections" type="Correction">
  <xs:annotation>
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  </xs:annotation>
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<xs:element maxOccurs="1" minOccurs="0" name="Notes" type="xs:string">
  <xs:annotation>
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  </xs:annotation>
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```

</xs:all>

</xs:complexType>

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<xs:annotation>

<xs:documentation>xs:date limited to SQL Server's operating range</xs:documentation>

</xs:annotation>

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<xs:minInclusive value="1753-01-01" />

<xs:maxInclusive value="9999-12-31" />

</xs:restriction>

</xs:simpleType>

<xs:complexType name="Resolution">

<xs:annotation>

<xs:documentation>Incident resolution</xs:documentation>

</xs:annotation>

<xs:simpleContent>

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<xs:annotation>

<xs:documentation>Did you resolve the incident?</xs:documentation>

</xs:annotation>

</xs:attribute>

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<xs:annotation>

<xs:documentation>Who was the incident transferred to (if any)</xs:documentation>

```
</xs:annotation>
</xs:attribute>
</xs:extension>
</xs:simpleContent>
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<xs:complexType name="Discharge">
  <xs:choice>
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    <xs:element name="No" type="NoMS4Discharge"/>
    <xs:element name="Unknown" type="UnknownMS4Discharge"/>
  </xs:choice>
</xs:complexType>
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  <xs:sequence>
    <xs:element maxOccurs="unbounded" name="Discovered">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string"/>
        </xs:sequence>
        <xs:attribute name="type" type="DiscoveredType"/>
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    </xs:element>
  </xs:sequence>
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```
<xs:attribute name="g3" use="required" type="xs:boolean"/>
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type="LatLongTypeIntersectionType" />
    <xs:element maxOccurs="1" minOccurs="0" name="TaxParcel" type="TaxParcelType" />
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type="IntersectionTypeLatLongType" />
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```

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  <xs:element maxOccurs="unbounded" name="Pollutant">
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</xs:sequence>
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</xs:complexType>
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  <xs:annotation>
    <xs:documentation>No discharge reached MS4</xs:documentation>
  </xs:annotation>
</xs:complexType>
```

```
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  <xs:annotation>  
    <xs:documentation>Discharge reached MS4</xs:documentation>  
  </xs:annotation>  
  <xs:attribute name="type" type="DischargeType"/>  
  <xs:attribute name="frequency" type="DischargeFrequency"/>  
  <xs:attribute name="waterbody" type="xs:string">  
    <xs:annotation>  
      <xs:documentation>Receiving waterbody</xs:documentation>  
    </xs:annotation>  
  </xs:attribute>  
  <xs:attribute name="volume" type="xs:integer">  
    <xs:annotation>  
      <xs:documentation>Number of gallons, pounds, or cubic feet</xs:documentation>  
    </xs:annotation>  
  </xs:attribute>  
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```
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</xs:annotation>  
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  <xs:annotation>  
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</xs:complexType>  
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      </xs:annotation>  
    </xs:enumeration>  
    <xs:enumeration value="1">  
      <xs:annotation>  
        <xs:documentation>Sheen</xs:documentation>
```

</xs:annotation>  
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<xs:annotation>  
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</xs:annotation>  
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<xs:annotation>  
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<xs:appinfo>Explain</xs:appinfo>  
</xs:annotation>  
</xs:enumeration>  
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<xs:annotation>  
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</xs:annotation>  
</xs:enumeration>  
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```
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<xs:enumeration value="0">  
<xs:annotation>  
<xs:documentation>Continuous or Ongoing</xs:documentation>  
</xs:annotation>  
</xs:enumeration>  
<xs:enumeration value="1">  
<xs:annotation>  
<xs:documentation>Intermittent</xs:documentation>  
</xs:annotation>  
</xs:enumeration>  
<xs:enumeration value="2">  
<xs:annotation>  
<xs:documentation>One-Time</xs:documentation>  
</xs:annotation>  
</xs:enumeration>  
</xs:restriction>  
</xs:simpleType>  
<xs:simpleType name="NoMs4Reason">  
<xs:annotation>  
<xs:documentation>Reason there was no discharge to MS4</xs:documentation>  
</xs:annotation>  
<xs:restriction base="xs:string">  
<xs:enumeration value="10">
```

```
<xs:annotation>  
  <xs:documentation>No problem found</xs:documentation>  
</xs:annotation>  
</xs:enumeration>
```

```
<xs:enumeration value="1">
```

```
<xs:annotation>
```

```
2">
```

```
<xs:annotation>
```

```
<xs:documentation>Cleaned up</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:enumeration>
```

```
<xs:enumeration value="2">
```

```
<xs:annotation>
```

```
3">
```

```
<xs:annotation>
```

```
<xs:documentation>Discharge to combined or sanitary sewer</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:enumeration>
```

```
<xs:enumeration value="4">
```

```
<xs:annotation>
```

```
3">
```

```
<xs:annotation>
```

```
<xs:documentation>Discharge to private or other sewer</xs:documentation>
```

```
</xs:annotation>
```

```
</xs:enumeration>
```

<xs:enumeration value="4">

~~<xs:annotation>~~

~~5">~~

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16">

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~~18"~~

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<xs:documentation>Heating oil or kerosene</xs:documentation>

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<xs:documentation>Household or industrial chemical</xs:documentation>

<xs:appinfo>Explain</xs:appinfo>

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<xs:documentation>Pesticide or herbicide</xs:documentation>

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21">

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<xs:appinfo>Construction activity</xs:appinfo>

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<xs:appinfo>Vehicle related</xs:appinfo>

<xs:documentation>Vehicle related</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="9">

<xs:annotation>

<xs:appinfo>Vehicle related</xs:appinfo>

<xs:documentation>Fueling</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="9">

~~<xs:annotation>~~

~~<xs:appinfo>Vehicle related</xs:appinfo>~~

<xs:documentation>Vehicle collision/accident</xs:documentation>

~~</xs:annotation>~~

~~</xs:enumeration>~~

~~<xs:enumeration value="10">~~

<xs:annotation>

<xs:appinfo>Vehicle related</xs:appinfo>

<xs:documentation>Vehicle collision/accident</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="11">

<xs:annotation>

<xs:appinfo>Vehicle related</xs:appinfo>

<xs:documentation>Auto repair</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="11">

~~<xs:annotation>~~

~~<xs:appinfo>Vehicle related</xs:appinfo>~~

~~<xs:documentation>Vehicle washing</xs:documentation>~~

~~</xs:annotation>~~

~~</xs:enumeration>~~

~~<xs:enumeration value="12">~~

<xs:annotation>

<xs:appinfo>Vehicle related</xs:appinfo>

<xs:documentation>Vehicle washing</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="13">

<xs:annotation>

<xs:appinfo>Vehicle related</xs:appinfo>

<xs:documentation>Vehicle leakage/fluids</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="14">

<xs:annotation>

<xs:appinfo>Improper business operation or activity</xs:appinfo>

13">

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~~<xs:appinfo documentation>Improper business operation or activity</xs:appinfo documentation>~~  
~~</xs:annotation>~~  
~~</xs:enumeration>~~  
~~<xs:enumeration value="15">~~  
~~<xs:annotation>~~  
~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~  
~~<xs:documentation>Equipment cleaning</xs:documentation>~~  
~~</xs:annotation>~~  
~~</xs:enumeration>~~  
~~<xs:enumeration value="16">~~  
~~<xs:annotation>~~  
~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~  
~~14">~~  
~~<xs:annotation>~~  
~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~  
~~<xs:documentation>Pressure washing</xs:documentation>~~  
~~</xs:annotation>~~  
~~</xs:enumeration>~~  
~~<xs:enumeration value="17">~~  
~~<xs:annotation>~~  
~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~  
~~15">~~  
~~<xs:annotation>~~  
~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Leaking or abandoned container/dumpster</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="18">

<xs:annotation>

<xs:appinfo>Improper business operation or activity</xs:appinfo>

16"

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Drive-thru</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="19">

<xs:annotation>

<xs:appinfo>Improper business operation or activity</xs:appinfo>

17"

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Mobile business</xs:documentation>

<xs:appinfo>Explain</xs:appinfo>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="20">

<xs:annotation>

<xs:appinfo>Improper business operation or activity</xs:appinfo>

~~18"~~

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Retail operations</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="21">

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~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~19"~~

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Restaurant</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="22">

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~20"~~

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Non-emergency firefighting or training</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="23">

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~<xs:documentation>21">~~

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~<xs:documentation>Logging</xs:documentation>~~

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="24">

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~22">~~

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

<xs:documentation>Livestock</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="25">

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~<xs:documentation>23">~~

~~<xs:annotation>~~

~~<xs:appinfo>Improper business operation or activity</xs:appinfo>~~

~~<xs:documentation>Other </xs:documentation>~~

<xs:appinfo>Explain</xs:appinfo>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="26">

<xs:annotation>

<xs:appinfo>Allowable discharge</xs:appinfo>

24">

<xs:annotation>

<xs:appinfo:documentation>Allowable discharge</xs:appinfo:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="27">

<xs:annotation>

<xs:appinfo>Allowable discharge</xs:appinfo>

<xs:documentation>Diverted stream flow</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="28">

<xs:annotation>

<xs:appinfo>Allowable discharge</xs:appinfo>

25">

<xs:annotation>

<xs:appinfo>Allowable discharge</xs:appinfo>

<xs:documentation>Flow from riparian habitat or wetland</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="29">

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

~~26">~~

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

<xs:documentation>Uncontaminated ground water or spring water</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="30">

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

~~27">~~

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

<xs:documentation>Foundation or footing drain</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="31">

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

~~28">~~

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

<xs:documentation>Uncontaminated water from crawl space pump</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="32">

<xs:annotation>

<xs:appinfo>Allowable discharge</xs:appinfo>

~~29"~~

~~<xs:annotation>~~

~~<xs:appinfo>Allowable discharge</xs:appinfo>~~

<xs:documentation>Air conditioning condensation</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="33">

<xs:annotation>

~~30"~~

~~<xs:annotation>~~

<xs:appinfo>Allowable discharge</xs:appinfo>

<xs:documentation>Irrigation water from agricultural source</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="3134">

<xs:annotation>

<xs:appinfo>Allowable discharge</xs:appinfo>

<xs:documentation>Emergency firefighting</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="35">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

~~32">~~

~~<xs:annotation>~~

<xs:appinfodocumentation>Conditionally allowed discharge</xs:appinfodocumentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="36">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

<xs:documentation>Potable water</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="37">

<xs:annotation>

~~33">~~

~~<xs:annotation>~~

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

<xs:documentation>Water line flushing or testing</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="34">

<xs:annotation>

38">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

<xs:documentation>Lawn watering or other irrigation</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="39">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

35">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

<xs:documentation>Dechlorinated pool/spa water</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="40">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

36">

<xs:annotation>

<xs:appinfo>Conditionally allowed discharge</xs:appinfo>

<xs:documentation>Street/sidewalk wash water</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="41">

<xs:annotation>

<xs:appinfo>Surface runoff<del>37>

~~<xs:annotation>~~

</xs:appinfo>

<xs:appinfo>documentation>Surface runoff</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="42">

<xs:annotation>

- <xs:appinfo>Surface runoff</xs:appinfo>

<xs:documentation>Due to drainage or grade conditions</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="38">

~~<xs:annotation>~~

43">

<xs:annotation>

<xs:appinfo>Surface runoff</xs:appinfo>

<xs:documentation>Stormwater or flood water</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="39">

~~<xs:annotation>~~

44">

<xs:annotation>

<xs:appinfo>Surface runoff</xs:appinfo>

<xs:documentation>Groundwater pumping</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="40">

~~<xs:annotation>~~

45">

<xs:annotation>

<xs:appinfo>Surface runoff</xs:appinfo>

<xs:documentation>Broken or clogged water or sewer line</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="41">

~~<xs:annotation>~~

~~<xs:appinfo>Surface runoff 46">~~

<xs:annotation>

<xs:appinfo>Surface runoff</xs:appinfo>

<xs:documentation>Other</xs:documentation>

<xs:appinfo>Explain</xs:appinfo>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="47">

<xs:annotation>

42">

~~<xs:annotation>~~

<xs:documentation>Septic system</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="4348">

<xs:annotation>

<xs:documentation>Other</xs:documentation>

<xs:appinfo>Explain</xs:appinfo>

</xs:annotation>

</xs:enumeration>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TraceType">

<xs:restriction base="xs:string">

<xs:enumeration value="10">

<xs:annotation>

<xs:documentation>Not applicable</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="1">

<xs:annotation>

2">

<xs:annotation>

<xs:documentation>Visual observation</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="3">

<xs:annotation>

2">

<xs:annotation>

<xs:documentation>Smell/odor</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="3">

<xs:annotation>

4">

~~<xs:annotation>~~

<xs:documentation>Map analysis</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="4">

<xs:annotation>

5">

~~<xs:annotation>~~

<xs:documentation>Further inspection or reconnaissance</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="5">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Indicator testing</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="6">

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  <xs:appinfo>Indicator testing</xs:appinfo>  
  <xs:documentation>Flow/discharge</xs:documentation>  
</xs:annotation>
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</xs:enumeration>
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<xs:enumeration value="7">
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```
<xs:annotation>  
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  <xs:documentation>Sheen/oil</xs:documentation>  
</xs:annotation>
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```
</xs:enumeration>
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```
<xs:enumeration value="8">
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```
<xs:annotation>  
  <xs:appinfo>Indicator testing</xs:appinfo>  
  <xs:documentation>Floatables</xs:documentation>  
</xs:annotation>
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```
</xs:enumeration>
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```
<xs:enumeration value="9">
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```
<xs:annotation>  
  <xs:appinfo>Indicator testing</xs:appinfo>  
  <xs:documentation>Detergent or surfactants</xs:documentation>  
</xs:annotation>
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</xs:enumeration>
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```
<xs:enumeration value="10">
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```
<xs:annotation>
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<xs:appinfo>Indicator testing</xs:appinfo>  
<xs:documentation>Ammonia</xs:documentation>  
</xs:annotation>  
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<xs:appinfo>Indicator testing</xs:appinfo>  
<xs:documentation>Color</xs:documentation>  
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<xs:enumeration value="12">  
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<xs:appinfo>Indicator testing</xs:appinfo>  
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<xs:enumeration value="13">  
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<xs:appinfo>Indicator testing</xs:appinfo>  
<xs:documentation>pH</xs:documentation>  
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<xs:enumeration value="14">  
<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Temperature</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="15">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Turbidity</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="16">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Hardness</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="17">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Nitrates</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="18">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Potassium</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="19">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Specific conductivity</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="20">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Bacteria </xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="21">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Chloride/chlorine</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="22">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Fluoride</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="23">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Carbon monoxide</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="24">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Hydrogen sulfide</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="25">

<xs:annotation>

<xs:appinfo>Indicator testing</xs:appinfo>

<xs:documentation>Other</xs:documentation>

<xs:appinfo>Explain</xs:appinfo>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="26">

<xs:annotation>

<xs:documentation>Dye testing</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="27">

<xs:annotation>

<xs:documentation>Pressure testing</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="28">

<xs:annotation>

<xs:documentation>Smoke testing</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="29">

<xs:annotation>

<xs:documentation>Video inspection</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="30">

<xs:annotation>

<xs:documentation>Canine detection</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="31">

<xs:annotation>

<xs:documentation>Optical brightener</xs:documentation>

</xs:annotation>

</xs:enumeration>

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<xs:enumeration value="32">  
  <xs:annotation>  
    <xs:documentation>Sand bagging</xs:documentation>  
  </xs:annotation>  
</xs:enumeration>
```

```
<xs:enumeration value="33">  
  <xs:annotation>  
    <xs:documentation>Other</xs:documentation>  
    <xs:appinfo>Explain</xs:appinfo>  
  </xs:annotation>  
</xs:enumeration>
```

```
</xs:restriction>  
</xs:simpleType>  
<xs:simpleType name="CorrectionType">
```

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<xs:restriction base="xs:string">  
  <xs:enumeration value="10">  
    <xs:annotation>  
      <xs:documentation>No action needed</xs:documentation>  
      <xs:appinfo>Explain</xs:appinfo>  
    </xs:annotation>  
  </xs:enumeration>
```

```
<xs:enumeration value="21">  
  <xs:annotation>  
    <xs:documentation>Clean-up</xs:documentation>  
  </xs:annotation>
```

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<xs:enumeration value="3">

~~<xs:annotation>~~

2">

<xs:annotation>

<xs:documentation>Education/technical assistance</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="3">

<xs:annotation>

4">

~~<xs:annotation>~~

<xs:documentation>Add or modify operational BMP</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="4">

<xs:annotation>

5">

<xs:annotation>

<xs:documentation>Add or modify structural BMP</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="5">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Enforcement</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="6">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Verbal notice</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="7">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Written warning</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="8">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Correction notice</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="9">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Stop work order</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="10">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Legal notice</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="11">

<xs:annotation>

<xs:appinfo>Enforcement</xs:appinfo>

<xs:documentation>Penalty or fine</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="12">

<xs:annotation>

<xs:documentation>Referred to other agency or department</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="13">

<xs:annotation>

<xs:documentation>Follow-up or further investigation</xs:documentation>

</xs:annotation>

</xs:enumeration>

<xs:enumeration value="14">

<xs:annotation>

```
<xs:documentation>Problem not abated</xs:documentation>
```

```
<xs:appinfo>Explain</xs:appinfo>
```

```
</xs:annotation>
```

```
</xs:enumeration>
```

```
<xs:enumeration value="15">
```

```
<xs:annotation>
```

```
<xs:documentation>Other</xs:documentation>
```

```
<xs:appinfo>Explain</xs:appinfo>
```

```
</xs:annotation>
```

```
</xs:enumeration>
```

```
</xs:restriction>
```

```
</xs:simpleType>
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<xs:annotation>
```

```
<xs:documentation>xs:date limited to SQL Server's operating range</xs:documentation>
```

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</xs:annotation>
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<xs:restriction base="xs:date">
```

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<xs:minInclusive value="1753-01-01" />
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```
<xs:maxInclusive value="9999-12-31" />
```

```
</xs:restriction>
```

```
</xs:simpleType>
```

```
</xs:schema>
```

Example (IDDE.xml)

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<IDDEEvents>
```

```
<IDDEEvent>
```

```
<DateIncident>2018-01-01</DateIncident>
```

```
<IncidentId>IncidentId1</IncidentId>
```

```
—<Jurisdiction>WAR045000</Jurisdiction>
—</IDDEEvent>
—<IDDEEvent>
—<Notes>Notes2</Notes>
—<Corrections>
—<Correction type="1">
—</Correction>
—</Corrections>
—<Traces>
—<Trace type="1">
—</Trace>
—</Traces>
—<Sources>
—<Source type="1">
—</Source>
—</Sources>
—<Pollutants>
—<Pollutant type="1">
—</Pollutant>
—</Pollutants>
—<Location>
—<Intersection>Martin Way and Desmond Drive</Intersection>
—</Location>
—<G3_g3="false" />
—<Discovereds>
—<Discovered type="1">
—</Discovered>
—</Discovereds>
—<Discharge>
—<Unknown />
—</Discharge>
—<Resolved final="true">2018-08-15</Resolved>
—<DateResponseBegin>2018-08-10</DateResponseBegin>
—<DateReported>2018-08-09</DateReported>
—<DateIncident>2018-08-08</DateIncident>
—<IncidentId>IncidentId2</IncidentId>
—<Jurisdiction>WAR044000</Jurisdiction>
—</IDDEEvent>
—<IDDEEvent>
—<Notes>Notes3</Notes>
—<Corrections>
—<Correction type="3">
—</Correction>
—<Correction type="14">
—<Explain>Explain correction</Explain>
—</Correction>
```

—<Correction type="13">  
—</Correction>  
—</Corrections>  
—<Traces>  
—<Trace type="7">  
—<Explain>Explain7</Explain>  
—</Trace>  
—<Trace type="25">  
—<Explain>Explain trace indicator</Explain>  
—</Trace>  
—<Trace type="33">  
—<Explain>Explain trace</Explain>  
—</Trace>  
—</Traces>  
—<Sources>  
—<Source type="17">  
—<Explain>Explain source</Explain>  
—</Source>  
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