Begin METADATA documentation

 METADATA Date: August 18, 2011

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 METADATA Data Description:

   Filename: matrix.spikes.txt

   Source: U.S. Geological Survey Data Series 630, appendix 2.

           URL http://pubs.usgs.gov/ds/630/

   The data provided herein are an UPDATED water-quality quality-control data set processed

   similarly to that provided in--

   U.S. Geological Survey Scientific Investigations Report 2009-5189, Adjustment of Pesticide

   Concentrations for Temporal Changes in Analytical Recovery, 1992-2006

   URL http://pubs.usgs.gov/sir/2009/5189/

Concentrations and recoveries of as many as 44 pesticides and 8 degradates in 1,819 matrix spikes collected at 361 stream-water sites and 999 matrix spikes collected at 633 groundwater sites from May 8, 1992, to August 31, 2010, are provided in this tab-delimited ASCII file.

NOTE: This is a "row" format data file. Each row contains information about one pesticide measured in one matrix spike.

This data file contains 125,374 rows of data (excludes rows of METADATA comments, 1 row of attribute labels, and 1 row of field descriptions).

METADATA Basic documentation of dataset elements:

Data Attributes:

pstaid	15s
suid	4s
dates	8d
sdectime	9n
year	9n
month	9n
day	9n
pcode	5s
plname	25s
stimes	4s
smedim	3s
sremrk	1s

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svalue        9n

ssched        9s

etimes        4s

emedim        3s

eremrk        1s

evalue        9n

esched        9s

lotno         9n

sch           14s

ugml          9n

spivol        9n

samvol        9n

recov         9n

sname         50s
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Note: The row in the data file that follows the row of attribute labels describes the
      width of the field and the data type. S or s indicates a text attribute,
      D or d indicates a date attribute, and N or n indicates a numeric attribute.
      For example: 15s indicates a 0- to 15-character text attribute, whereas
      9N indicates a 0- to 9-digit numeric attribute. Attribute labels may be longer
      than the width of the field.

Attribute label: pstaid

Attribute description: U.S. Geological Survey (USGS) site identification number.

        Note: pstaid is the "parent" site identification number. At some sites, the actual
              location of sample collection (at the "child" site identification number)
              may have changed during the period of sample collection, but the sites
              are considered equivalent.

Attribute label: suid

Attribute description: National Stream Quality Accounty Network (NASQAN) Program (suid = NSQN)
                       or National Water Quality Assessment (NAWQA) Program Study-Unit identifier

        Code   Description

        ACAD   Acadian-Pontchartrain Drainages

        ACFB   Apalachicola-Chattahoochee-Flint River Basin

        ALBE   Albemarle-Pamlico Drainage Basin

        ALMN   Allegheny and Monongahela River Basins

        CAZB   Central Arizona Basins

        CCYK   Central Columbia Plateau-Yakima River Basin

        CNBR   Central Nebraska Basins

        CONN   Connecticut, Housatonic, and Thames River Basins

        COOK   Cook Inlet Basin

        DELR   Delaware River Basin

        EIWA   Eastern Iowa Basins

GAFL	Georgia-Florida Coastal Plain
GRSL	Great Salt Lake Basins
HDSN	Hudson River Basin
HPGW	High Plains Regional Ground Water Study
KANA	Kanawha-New River Basins
LERI	Lake Erie-Lake Saint Clair Drainages
LINJ	Long Island-New Jersey Coastal Drainages
LIRB	Lower Illinois River Basin
LSUS	Lower Susquehanna River Basin
MISE	Mississippi Embayment
MOBL	Mobile River Basin
NECB	New England Coastal Basins
NROK	Northern Rockies Intermontane Basins
NSQN	NASQAN
NVBR	Las Vegas Valley Area and Carson and Truckee River Basins
OAHU	Island of Oahu
OZRK	Ozark Plateaus
PODL	Potomac River Basin and Delmarva Peninsula
PUGT	Puget Sound Basin
REDN	Red River of the North Basin
RIOG	Rio Grande Valley
SACR	Sacramento River Basin
SANA	Santa Ana Basin
SANJ	San Joaquin-Tulare Basins
SANT	Santee River Basin and Coastal Drainages
SCTX	South-Central Texas

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        SOFL    Southern Florida

        SPLT    South Platte River Basin

        TENN    Tennessee River Basin

        TRIN    Trinity River Basin

        UCOL    Upper Colorado River Basin

        UIRB    Upper Illinois River Basin

        UMIS    Upper Mississippi River Basin

        USNK    Upper Snake River Basin

        WHMI    White, Great Miami, and Little Miami River Basins

        WILL    Willamette Basin

        WMIC    Western Lake Michigan Drainages

        YELL    Yellowstone River Basin
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Attribute label: dates

Attribute description: Date of matrix spike and environmental background sample, YYYYMMDD.

Attribute label: sdectime

Attribute description: Decimal date/time of matrix spike.

Attribute label: year

Attribute description: Year of matrix spike and environmental background sample.

Attribute label: month

Attribute description: Month of matrix spike and environmental background sample.

Attribute label: day

Attribute description: Day of matrix spike and environmental background sample.

Attribute label: pcode

Attribute description: Parameter code. The 5-digit number used to identify variables
                      in the USGS National Water Information System (NWIS).

Attribute label: plname

Attribute description: Common name of the pesticide or degradate.

Attribute label: stimes

Attribute description: Time of matrix spike.

Attribute label: smedim

Attribute description: Medium of matrix spike.

        Code   Description

        WGQ   Groundwater

        WSQ   Surface water

Attribute label: sremrk

Attribute description: Remark code for the measured pesticide concentration in the

                        matrix spike (svalue).

        Code   Description

        <   Not Detected. Concentration reported as less than svalue.

        (blank)   Detected. Concentration reported as svalue.

        E   Detected. Concentration is estimated as svalue.

                    Estimated concentration may result from any of the following reasons:

                        1. The compound is characterized as a "poor performer" in the method on the

                            basis of laboratory QC samples. In general, compounds with less than 60 %

                            recovery, greater than 120 % recovery, or greater than 25 % relative standard

deviation of recovery are considered poor performers. All detections of these compounds are remarked E.

2. The compound was detected at a concentration less than the reporting level or less than the lowest calibration standard.

3. The sample was diluted to bring the concentration into the calibration range.

Attribute label: svalue

Attribute description: Measured pesticide concentration in the matrix spike, in micrograms per liter.

Attribute label: ssched

Attribute description: Analytical schedule (method and suite of pesticides) used to measure pesticides in the matrix spike.

Code	Description
NWQL2001	NWQL schedule 2001
NWQL2003	NWQL schedule 2003
NWQL2010	NWQL schedule 2010
NWQL2033	NWQL schedule 2033

Attribute label: etimes

Attribute description: Time of environmental background sample.

Attribute label: emedim

Attribute description: Medium of environmental background sample.

    Code   Description

    WG   Groundwater
    WS   Surface water

Attribute label: eremrk

Attribute description: Remark code for the measured pesticide concentration in the
                      environmental background sample (evalue).

    Code   Description

    <   Not Detected. Concentration reported as less than evalue.
    (blank)   Detected. Concentration reported as evalue.
    E   Detected. Concentration is estimated as evalue.
              Estimated concentration may result from any of the following reasons:

1. The compound is characterized as a "poor performer" in the method on the basis of laboratory QC samples. In general, compounds with less than 60 % recovery, greater than 120 % recovery, or greater than 25 % relative standard deviation of recovery are considered poor performers. All detections of these compounds are remarked E.
2. The compound was detected at a concentration less than the reporting level or less than the lowest calibration standard.
3. The sample was diluted to bring the concentration into the calibration range.

Attribute label: evalue

Attribute description: Measured pesticide concentration in the environmental background sample, in micrograms per liter.

Attribute label: esched

Attribute description: Analytical schedule (method and suite of pesticides) used to measure pesticides in the environmental background sample.

Code	Description
NWQL2001	NWQL schedule 2001
NWQL2003	NWQL schedule 2003
NWQL2010	NWQL schedule 2010

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            NWQL2033    NWQL schedule 2033



Attribute label: lotno


Attribute description: Spike solution lot number


     Note: This is the NWIS lot number NOT the manufacturer's lot number.
           See http://wwwnwql.cr.usgs.gov/USGS/spike/spike.html for more information.
           Also see companion data file: spike.solutions.txt



Attribute label: sch


Attribute description: USGS National Water Quality Laboratory (NWQL) analytical schedules
                      appropriate for spike solution


        Code            Description


        2001/2010       NWQL schedules 2001 and 2010
        2003            NWQL schedule 2003
        2003/2032/2033  NWQL schedules 2003, 2032, and 2033



Attribute label: ugml
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Attribute description: Concentration of pesticide or degradate in spike solution, in

microgramms per milliliter.

Attribute label: spivol

Attribute description: Volume of spike solution added to the matrix spike, in milliliters.

Attribute label: samvol

Attribute description: Volume of the matrix spike, in milliliters.

Attribute label: recov

Attribute description: Recovery of pesticide in the matrix spike, in percent.

Attribute label: sname

Attribute description: Name of the stream-water or groundwater site where the matrix spike and the

environmental background sample were collected (pstaid).

End METADATA documentation