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M-AREA AND METALLURGICAL LABORATORY HAZARDOUS WASTE MANAGEMENT FACILITIES GROUNDWATER MONITORING AND CORRECTIVE-ACTION REPORT (U)

THIRD AND FOURTH QUARTERS 1996

VOLUME II

Publication Date: March 1997

Authorized Derivative Classifier
and Reviewing Official:

C. G. Reeves, DE, RO.

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Controlled Nuclear Information

Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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Appendix E

Data Quality/Usability Assessment

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Data Quality/Usability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory, and QC data are reviewed prior to publication of results. The review by the Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; EPD/EMS' review of the QC data cannot be completed in time to meet the deadlines for the groundwater monitoring reports required by the Resource Conservation and Recovery Act and associated regulations. Beginning first quarter 1996, the *Quality Control Samples* section of EMS' quarterly groundwater monitoring report contains detailed evaluation of the following indicators of data quality: precision, accuracy, representativeness, comparability, and completeness. Site and regulatory personnel can obtain further information on the data quality and usability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QC information either at the same time as analytical results or in quarterly summaries. Properly defined and used modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Modifiers designed by EPA or EPD/EMS and used by the primary laboratories or EMS' data validators are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by evaluation of results obtained from known samples. The contract laboratories analyze commercial reference samples periodically at EPD/EMS' request. The results of these analyses from the nonradionuclide laboratories are presented in the EPD/EMS groundwater monitoring quarterly reports; the results from the radionuclide laboratories should be available on request from the laboratory subcontract representatives. The primary laboratories also seek or maintain state certification by participating periodically in performance studies. Reference samples and evaluation of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceed established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches. In these regulatory reports, the modifier *V* is assigned to every detected result that is run in the same batch as a laboratory blank with positive results for that analyte. A *U* qualifier (reported as *less than* [*<*]) also is added if the analyte concentration is less than five times the concentration in the blank (or, for common laboratory contaminants, less than ten times).

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples and blanks in each analytical batch. In analyses of semivolatile organics by EPA Method 8270, three surrogates are required and an additional compound is advised for each fraction (acids and base/neutrals). Two surrogates are used in organochlorine pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered into the database.

Beginning first quarter 1996, statistical summaries are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. If recoveries are not within specified limits, the laboratory is expected to reanalyze the samples or attach qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A portion of the sample is analyzed unspiked to determine a baseline set of values. A second portion of the sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically five volatile organic compounds for volatile organics analyses, eleven semivolatile compounds for semivolatiles, six pesticide compounds for pesticides, all metals for metals analyses by SW-846 methods (EPA, 1986), and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS. Beginning first quarter 1996, spike results and a statistical summary are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a laboratory is having a systemic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers assigned by the laboratories on the basis of the percentage of spike recovery are reported in the EPD/EMS results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates initiated by the laboratory and blind replicates provided by EPD/EMS. The results of duplicate and replicate analyses are presented in results tables that report only one quarter of data. Results tables that include more than one quarter of data present only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference (RPD) for each pair of laboratory-initiated duplicate results. The EMS data validators apply a data qualifier to the results of entire preparation batches of metals analyses when the RPD for laboratory duplicates is greater than 20 percent and either the difference between the two samples is greater than the contract-required detection limit (CRDL) or both sample results are greater than 5 times the CRDL. This qualifier is published in the EPD/EMS quarterly reports.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the mean relative difference (MRD), which is similar to EPA's RPD except that the MRD is the average of all the RPD values from one laboratory for each compound (intralaboratory MRD) or all the RPD values from all laboratories for each compound (interlaboratory MRD) during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all duplicate and replicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important

component of determining data usability. EPA has conducted extensive research and development on the methods approved for the analysis of water and wastewater. Information on the accuracy and precision of a method is available from EPA publications, as is full information on required QA/QC procedures. A listing of the methods used by the primary laboratories during fourth quarter 1995 is given below, along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results. The EPD/EMS quarterly reports provide the methods used by the laboratories each quarter.

Table E-1. Methods Used by the Contract Laboratories

Method	Used to Analyze	Source
EICHROMTC1MOD ^a	Technetium isotopes	EiChrom Industries, Inc.; NA ^p
EMLAM01MOD	Americium, curium isotopes	DOE, 1992
EMLPU02MOD	Neptunium, plutonium isotopes	DOE, 1992
EMLSR02MOD	Strontium isotopes	DOE, 1992
EMLTH01MOD	Thorium isotopes	DOE, 1992
EMLU02MOD	Uranium isotopes	DOE, 1992
ENICMOD	Carbon-14	NA
EPA120.1	Specific conductance	EPA EMSL, 1983
EPA150.1	pH	EPA EMSL, 1983
EPA160.1	Total dissolved solids	EPA EMSL, 1983
EPA160.2	Total dissolved solids, total suspended solids	EPA EMSL, 1983
EPA180.1	Turbidity	EPA EMSL, 1983
EPA200.7	Metals	EPA EMSL, 1983
EPA245.1	Mercury	EPA EMSL, 1983
EPA300.0	Chloride, nitrite, sulfate, fluoride	EPA EMSL, 1983
EPA310.1	Alkalinity (as CaCO ₃)	EPA EMSL, 1983
EPA335.2	Cyanide	EPA EMSL, 1983
EPA335.3	Cyanide	EPA EMSL, 1983
EPA340.2	Fluoride	EPA EMSL, 1983
EPA350.1	Ammonia nitrogen	EPA EMSL, 1983
EPA350.3	Ammonia	EPA EMSL, 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL, 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL, 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.3	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.4	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA405.1	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA405.1/SM	Five-day biochemical oxygen demand	EPA EMSL, 1983

Method	Used to Analyze	Source
EPA410.4	Chemical oxygen demand	EPA EMSL, 1983
EPA415.1	Dissolved organic carbon, total inorganic carbon, total organic carbon	EPA EMSL, 1983
EPA418.1	Total petroleum hydrocarbons	EPA EMSL, 1983
EPA420.2	Phenols	EPA EMSL, 1983
EPA450.1	Total organic halogens	NA
EPA900.0MOD	Gross alpha, nonvolatile beta	EPA EMSL, 1980
EPA901.1MOD	Gamma PHA, iodine isotopes	EPA EMSL, 1980
EPA903.0MOD	Total alpha-emitting radium, radium isotopes	EPA EMSL, 1980
EPA904.0MOD	Radium isotopes	EPA EMSL, 1980
EPA906.0MOD	Tritium	EPA EMSL, 1980
EPA6010	Metals	EPA, 1986
EPA6010A	Metals	EPA, 1992
EPA7470	Mercury	EPA, 1986
EPA8080	Organochlorine pesticides and PCBs	EPA, 1986
EPA8150	Chlorinated herbicides	EPA, 1986
EPA8240	GCMS volatiles	EPA, 1986
EPA8260	GCMS volatiles	EPA, 1986
EPA8270	GCMS semivolatiles	EPA, 1986
EPA8280	Dioxins and furans	EPA, 1986
EPA9020A	Total organic halogens	EPA, 1986
EPA9020B	Total organic halogens	EPA, 1994b
EPA9060	Total inorganic carbon	EPA, 1986
EPIA-001 ^c	Gross alpha, nonvolatile beta	EP, 1996
EPIA-002 ^c	Tritium	EP, 1996
EPIA-003 ^c	Carbon-14	EP, 1996
EPIA-004 ^c	Strontium-90	EP, 1996
EPIA-005 ^c	Technetium-99	EP, 1996
EPIA-006 ^c	Iodine-129	EP, 1996
EPIA-008 ^c	Radium-226	EP, 1996
EPIA-009 ^c	Radium-228	EP, 1996
EPIA-010 ^c	Radium, total alpha-emitting	EP, 1996
EPIA-011 ^c	Americium, curium, uranium isotopes	EP, 1996
EPIA-012 ^c	Neptunium, plutonium, thorium isotopes	EP, 1996
EPIA-013 ^c	Gamma PHA	EP, 1996
EPIA-022 ^c	Nickel isotopes	EP, 1996
MMES16009MOD	Technetium-99	NA

Method	Used to Analyze	Source
3Q1-6-1420	Total activity, tritium	NA

^a MOD indicates modifications of applicable EPA, DOE, or other procedures.

^b NA = not available. Sources for some proprietary methods are not available.

^c The methods and detection limits used by GP are in-house methods based on applicable EPA, DOE, or other procedures. Complete method descriptions are available from GP.

Note: One of the labs reports the method for some metals determinations as CLP or CLP-MOD. This is presumed equivalent to Method 6010 or 6010A.

An example of method-specific QC information is that for EPA Method 8270 (EPA, 1986), which is used by both GE and Weston for analyses of semivolatile organics. The following table gives method-specific accuracy and precision as functions of concentration. Contract laboratories are expected to achieve or at least approach these limits.

Table E-2. Method Accuracy and Precision as Functions of Concentration for EPA Method 8270

Parameter	Accuracy, as recovery, x' ($\mu\text{g/L}$)	Single analyst precision, s_r' ($\mu\text{g/L}$)	Overall precision, S' ($\mu\text{g/L}$)
Acenaphthene	0.96C+0.19	0.15X-0.12	0.21X-0.67
Acenaphthylene	0.89C+0.74	0.24X-1.06	0.26X-0.54
Aldrin	0.78C+1.66	0.27X-1.28	0.43X+1.13
Anthracene	0.80C+0.68	0.21X-0.32	0.27X-0.64
Benzo[a]anthracene	0.88C-0.60	0.15X+0.93	0.26X-0.21
Benzo[b]fluoranthene	0.93C-1.80	0.22X+0.43	0.29X+0.96
Benzo[k]fluoranthene	0.87C-1.56	0.19X+1.03	0.35X+0.40
Benzo[g,h,i]perylene	0.98C-0.86	0.29X+2.40	0.51X-0.44
Benzo[a]pyrene	0.90C-0.13	0.22X+0.48	0.32X+1.35
β -BHC	0.87C-0.94	0.20X-0.58	0.30X+1.94
δ -BHC	0.29C-1.09	0.34X+0.86	0.93X+0.17
Bis(2-chloroethoxy) methane	1.12C-5.04	0.16X+1.34	0.26X+2.01
Bis(2-chloroethyl) ether	0.86C-1.54	0.35X-0.99	0.35X+0.10
Bis(2-chloroisopropyl) ether	1.03C-2.31	0.24X+0.28	0.25X+1.04
Bis(2-ethylhexyl) phthalate	0.84C-1.18	0.26X+0.73	0.36X+0.67
4-Bromophenyl phenyl ether	0.91C-1.34	0.13X+0.66	0.16X+0.66
Butylbenzyl phthalate	0.66C-1.68	0.18X+0.94	0.53X+0.92
4-Chloro-m-cresol	0.84C+0.35	0.23X+0.75	0.29X+1.31
Chloroethane	0.99C-1.53	0.14X-0.13	0.17X-0.28
2-Chloronaphthalene	0.89C+0.01	0.07X+0.52	0.13X+0.34
2-Chlorophenol	0.78C+0.29	0.18X+1.46	0.28X+0.97

Parameter	Accuracy, as recovery, x' ($\mu\text{g/L}$)	Single analyst precision, s_r' ($\mu\text{g/L}$)	Overall precision, S' ($\mu\text{g/L}$)
4-Chlorophenyl phenyl ether	0.91C+0.53	0.20X-0.94	0.30X-0.46
Chrysene	0.93C-1.00	0.28X+0.13	0.33X-0.09
p,p'-DDD	0.56C-0.40	0.29X-0.32	0.66X-0.96
p,p'-DDE	0.70C-0.54	0.26X-1.17	0.39X-1.04
p,p'-DDT	0.79C-3.28	0.42X+0.19	0.65X-0.58
Dibenz[a,h]anthracene	0.88C+4.72	0.30X+8.51	0.59X+0.25
Di-n-butyl phthalate	0.59C+0.71	0.13X+1.16	0.39X+0.60
1,2-Dichlorobenzene	0.80C+0.28	0.20X+0.47	0.24X+0.39
1,3-Dichlorobenzene	0.86C-0.70	0.25X+0.68	0.41X+0.11
1,4-Dichlorobenzene	0.73C-1.47	0.24X+0.23	0.29X+0.36
3,3'-Dichlorobenzidine	1.23C-12.65	0.28X+7.33	0.47X+3.45
2,4-Dichlorophenol	0.87C-0.13	0.15X+1.25	0.21X+1.28
Dieldrin	0.82C-0.16	0.20X-0.16	0.26X-0.07
Diethyl phthalate	0.43C+1.00	0.28X+1.44	0.52X+0.22
2,4-Dimethyl phenol	0.71C+4.41	0.16X+1.21	0.22X+1.31
Dimethyl phthalate	0.20C+1.03	0.54X+0.19	1.05X-0.92
2,4-Dinitrophenol	0.81C-18.04	0.38X+2.36	0.42X+26.29
2,4-Dinitrotoluene	0.92C-4.81	0.12X+1.06	0.21X+1.50
2,6-Dinitrotoluene	1.06C-3.60	0.14X+1.26	0.19X+0.35
Di-n-octyl phthalate	0.76C-0.79	0.21X+1.19	0.37X+1.19
Endosulfan sulfate	0.39C+0.41	0.12X+2.47	0.63X-1.03
Endrin aldehyde	0.76C-3.86	0.18X+3.91	0.73X-0.62
Fluoranthene	0.81C+1.10	0.22X-0.73	0.28X-0.60
Fluorene	0.90C-0.00	0.12X+0.26	0.13X+0.61
Heptachlor	0.87C-2.97	0.24X-0.56	0.50X-0.23
Heptachlor epoxide	0.92C-1.87	0.33X-0.46	0.28X+0.64
Hexachlorobenzene	0.74C+0.66	0.18X-0.10	0.43X-0.52
Hexachlorobutadiene	0.71C-1.01	0.19X+0.92	0.26X+0.49
Hexachloroethane	0.73C-0.83	0.17X+0.67	0.17X+0.80
Indeno[1,2,3-c,d]pyrene	0.78C-3.10	0.29X+1.46	0.50X-0.44
Isophorone	1.12C+1.41	0.27X+0.77	0.33X+0.26
2-Methyl-4,6-dinitrophenol	1.04C-28.04	0.10X+42.29	0.26X+23.10
Naphthalene	0.76C+1.58	0.21X-0.41	0.30X-0.68
Nitrobenzene	1.09C-3.05	0.19X+0.92	0.27X+0.21
2-Nitrophenol	0.07C-1.15	0.16X+1.94	0.27X+2.60
4-Nitrophenol	0.61C-1.22	0.38X+2.57	0.44X+3.24

Parameter	Accuracy, as recovery, x' ($\mu\text{g/L}$)	Single analyst precision, s_r' ($\mu\text{g/L}$)	Overall precision, S' ($\mu\text{g/L}$)
N-Nitrosodi-n-propylamine	$1.12C-6.22$	$0.27X+0.68$	$0.44X+0.47$
PCB 1260	$0.81C-10.86$	$0.35X+3.61$	$0.43X+1.82$
Pentachlorophenol	$0.93C+1.99$	$0.24X+3.03$	$0.30X+4.33$
Phenanthrene	$0.87C+0.06$	$0.12X+0.57$	$0.15X+0.25$
Phenol	$0.43C+1.26$	$0.26X+0.73$	$0.35X+0.58$
Pyrene	$0.84C-0.16$	$0.16X+0.06$	$0.15X+0.31$
1,2,4-Trichlorobenzene	$0.94C-0.79$	$0.15X+0.85$	$0.21X+0.39$
2,4,6-Trichlorophenol	$0.91C-0.18$	$0.16X+2.22$	$0.22X+1.81$

x' = Expected recovery for one or more measurements of a sample containing a concentration of C, in $\mu\text{g/L}$.

s_r' = Expected single analyst standard deviation of measurements at an average concentration of X, in $\mu\text{g/L}$.

S' = Expected interlaboratory standard deviation of measurements at an average concentration of X, in $\mu\text{g/L}$.

C = True value for the concentration, in $\mu\text{g/L}$.

X = Average recovery found for measurements of samples containing a concentration of C, in $\mu\text{g/L}$.

Appendix F

Time Series Plots

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Tetrachloroethylene Concentrations Well ABP 2A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well ABP 3C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well ABP 8C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster AC 1

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AC 3A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster AMB 4

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 5

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 6

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster AMB 7

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 8D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 9D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster AMB 10

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster AMB 11

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 12D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 13AR

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

-x- AMB 13AR (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 14D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 15D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 16D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 17A

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

—x— AMB 17A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster AMB 18

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AMB 19C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AOB 1

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well AOB 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well ASB 1A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster ASB 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster ASB 3

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well ASB 4

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster ASB 5

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster ASB 6

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster ASB 8

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

◆ ASB 8 (UL) ◇ ASB 8C (UL) × ASB 8B (MCBC) + ASB 8TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster ASB 9

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well ASB 10CR

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MCB 5C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MCB 6C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MCB 7C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 1

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 3

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 4

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 5

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 6

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 7

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 8

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 9

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 10

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 11

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 12

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 13

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 14A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 15

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 16

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 17

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 18

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 19

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 20

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 21

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

■ MSB 21C (M) ▲ MSB 21A (LL) ▲ MSB 21B (LL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 23

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 24

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 25A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 26

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 27

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 28

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 29

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 30

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 31

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 32

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 33

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 34

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 35

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 36

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 37

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 38C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 39

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 40

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 41

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 42

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 43TA

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 45

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 46

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 47

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 48

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 49

—■— MSB 49D (M) —▲— MSB 49B (LL) —x— MSB 49A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 51B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 52B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 53

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

MSB 53C (UL) MSB 53B (LL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 54

—◆— MSB 54D (UL) —▲— MSB 54C (LL) —x— MSB 54B (MCBC) —+— MSB 54TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 55

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 56D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 57D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 58D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 59D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 60D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 62

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 63

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 64

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 65D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 66

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 67D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 68

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 69

MSB 69D (M)
 MSB 69C (LL)
 MSB 69B (MCBC)
 MSB 69TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 70

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 71B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 72B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 73B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 74

■ MSB 74D (M) ♦ MSB 74C (UL) ▲ MSB 74B (LL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 75

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 76C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 77

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 78D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 79

—◆— MSB 79C (UL) —▲— MSB 79B (LL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 81B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 82

MSB 82D (M)
 MSB 82C (LL)
 MSB 82A (MCBC)
 MSB 82B (MCBC)
 MSB 82TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 83

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

■ MSB 83D (M) ▲ MSB 83C (LL) × MSB 83B (MCBC) + MSB 83TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 84

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 85

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 86C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 87

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster MSB 88

—▲— MSB 88C (LL) —x— MSB 88B (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well MSB 89B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster SRW 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster SRW 14

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Tetrachloroethylene Concentrations Well Cluster SRW 16

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well ABP 2A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well ABP 3C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well ABP 8C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster AC 1

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AC 3A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster AMB 4

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 5

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 6

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster AMB 7

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 8D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

M-Area and Met Lab HWMFs

F-4

Third and Fourth Que 1996

Trichloroethylene Concentrations Well AMB 9D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster AMB 10

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster AMB 11

■ AMB 11D (M) ◆ AMB 11B (UL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 12D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 13AR

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

—x— AMB 13AR (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 14D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 15D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 16D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 17A

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

—x— AMB 17A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster AMB 18

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

—◆— AMB 18C (UL) —x— AMB 18A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AMB 19C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AOB 1

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well AOB 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well ASB 1A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster ASB 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster ASB 3

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well ASB 4

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster ASB 5

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster ASB 6

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster ASB 8

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster ASB 9

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well ASB 10CR

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MCB 5C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MCB 6C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCB=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MCB 7C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 1

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 2

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 3

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 4

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 5

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 6

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 7

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 8

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 9

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 10

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 11

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 12

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 13

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 14A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 15

■ MSB 15C (M) □ MSB 15D (M) ◆ MSB 15A (UL) ▲ MSB 15AA (LL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 16

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 17

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 18

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 19

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

■ MSB 19C (M) ▲ MSB 19B (LL) × MSB 19A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 20

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 21

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 23

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 24

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 25A

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 26

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 27

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 28

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 29

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 30

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 31

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 32

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 33

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 34

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 35

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 36

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 37

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 38C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 39

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 40

Any unconnected lines
indicate a dry well or a value
below the detection limit.

GWPS 5 µg/L

◆ MSB 40C (UL) ▲ MSB 40B (LL) x MSB 40A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 41

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 42

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 43TA

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 45

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 46

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

■ MSB 46C (M) x MSB 46A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 47

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 48

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 49

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 51B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 52B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 53

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 54

—◆— MSB 54D (UL) —▲— MSB 54C (LL) —x— MSB 54B (MCBC) —+— MSB 54TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 55

—●— MSB 55D (UL) —◇— MSB 55HC (UL) —▲— MSB 55C (LL) —x— MSB 55B (MCBC) —+— MSB 55TA (CBA)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 56D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 57D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 58D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 59D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 60D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 62

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 63

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 64

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 65D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 66

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 67D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 68

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 69

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 70

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 71B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 72B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 73B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 74

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 75

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 76C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 77

—▲— MSB 77C (LL) —x— MSB 77B (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 78D

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 79

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 81B

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 82

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 83

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 84

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 85

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 86C

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 87

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster MSB 88

Any unconnected lines
indicate a dry well or a value
below the detection limit.
GWPS 5 µg/L

—▲— MSB 88C (LL) —x— MSB 88B (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well MSB 89B

▲ MSB 89B (LL)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster SRW 2

—◆— SRW 2B (UL) —x— SRW 2A (MCBC)

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster SRW 14

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Trichloroethylene Concentrations Well Cluster SRW 16

Note: M=M-Area; UL=Upper Lost Lake; LL=Lower Lost Lake; MCBC=Middle Sand; CBA=Crouch Branch

Appendix G

Hydrographs

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Hydrograph Well Cluster ABP 1

Hydrograph Well Cluster ABP 2

Hydrograph Well Cluster ABP 3

Hydrograph Well Cluster ABP 4

Hydrograph Well ABP 6D

Hydrograph Well ABP 7D

Hydrograph Well Cluster ABP 8

Hydrograph Well ABW 1

Hydrograph Well Cluster AC 1

Hydrograph Well Cluster AC 2

Hydrograph Well Cluster AC 3

Hydrograph Well ACB 1A

Hydrograph Well ACB 2A

Hydrograph Well ACB 3A

Hydrograph Well ACB 4A

Hydrograph Well Cluster AMB 4

Hydrograph Well AMB 5

Hydrograph Well AMB 6

Hydrograph Well Cluster AMB 7

Hydrograph Well AMB 8D

Hydrograph Well AMB 9D

Hydrograph Well Cluster AMB 10

Hydrograph Well Cluster AMB 11

Hydrograph Well AMB 12D

Hydrograph Well AMB 13AR

Hydrograph Well AMB 14D

Hydrograph Well AMB 15D

Hydrograph Well AMB 16D

Hydrograph Well AMB 17A

Hydrograph Well Cluster AMB 18

Hydrograph Well AMB 19C

Hydrograph Well AOB 1

Hydrograph Well AOB 2

Hydrograph Well AOB 3

Hydrograph Well ARP 1A

Hydrograph Well ARP 2

Hydrograph Well ARP 3

Hydrograph Well ARP 4

Hydrograph Well ASB 1A

Hydrograph Well Cluster ASB 2

Hydrograph Well Cluster ASB 3

Hydrograph Well ASB 4

Hydrograph Well Cluster ASB 5

Hydrograph Well Cluster ASB 6

Hydrograph Well Cluster ASB 8

■ ASB 8 △ ASB 8A ● ASB 8B □ ASB 8C ▽ ASB 8TA

Hydrograph Well Cluster ASB 9

Hydrograph Well ASB 10CR

Hydrograph Well MCB 2

Hydrograph Well MCB 4

Hydrograph Well Cluster MCB 5

Hydrograph Well Cluster MCB 6

Hydrograph Well MCB 7C

Hydrograph Well MCB 8D

Hydrograph Well MCB 9D

Hydrograph Well Cluster MSB 1

Hydrograph Well Cluster MSB 2

Hydrograph Well Cluster MSB 3

Hydrograph Well Cluster MSB 4

Hydrograph Well Cluster MSB 5

Hydrograph Well Cluster MSB 6

Hydrograph Well Cluster MSB 7

Hydrograph Well Cluster MSB 8

Hydrograph Well Cluster MSB 9

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Hydrograph Well Cluster MSB 89

Hydrograph Well Cluster SRW 1

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Hydrograph Well Cluster SRW 3

Hydrograph Well Cluster SRW 4

Hydrograph Well SRW 5

Hydrograph Well SRW 6

Hydrograph Well SRW 7

Hydrograph Well Cluster SRW 8

Hydrograph Well Cluster SRW 9

Hydrograph Well Cluster SRW 10

Hydrograph Well Cluster SRW 11

Hydrograph Well Cluster SRW 12

Hydrograph Well Cluster SRW 13

Hydrograph Well Cluster SRW 14

Hydrograph Well Cluster SRW 15

—■— SRW 15A —△— SRW 15B —●— SRW 15C

Hydrograph Well Cluster SRW 16

Hydrograph Well Cluster SRW 17