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Rockwell Hanford Operations

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Abstract

This data package contains a complete listing of the Site Hydrochemical Data Base for water samples associated with the Basalt Waste Isolation Project (BWIP). In addition to the detailed chemical analyses the following information is included:

- A summary description of the data base format
- Detailed descriptions of verification procedures used to check data entries
- Detailed descriptions of validation procedures used to evaluate data quality.

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A HYDROCHEMICAL DATA BASE FOR THE HANFORD SITE, WASHINGTON

1.0 INTRODUCTION

This data package contains a listing of the Site Hydrochemical Data Base for the Hanford Site and a summary of data verification and validation procedures applied to the analyses. The hydrochemistry data tables present the following types of information:

- o Sample Event
  - Sample Identification
  - Location
  - Date
  - Collection Techniques Used
  - Source of data
- o Results of Field Measurements
  - Sample and In Situ Temperatures
  - Conductivity
  - Alkalinity
  - Turbidity
  - pH
  - Redox potential
- o Results of Laboratory Measurements
  - Major, minor and trace inorganic components
  - Total organic and inorganic carbon
  - Dissolved gases
  - Stable isotopic constituents
  - Radioactive constituents

The hydrochemical samples reported in this data base were collected from within the Hanford Site and represent all components of the hydrologic cycle. Personnel from the Basalt Waste Isolation Project (BWIP) collected most of the samples as part of a reconnaisance level characterization program although this report includes numerous data from other sources. The following sections of this document identify the location of sample sites and specific sources of non-BWIP data as well as provide a detailed explanation of data base format and a summary of verification and validation procedures applied to the data.

Every attempt has been made to eliminate errors in data transcription and transfer. However, the potential exists for some errors to occur inadvertantly in a data base of this size. It is anticipated that future updates of this document gradually will reduce the probability of errors.

2.0 LOCATION OF SAMPLING SITES

The data base includes hydrochemical samples of the following types:

- o Precipitation
- o Surface Water
- o Springs
- o Groundwater (confined and unconfined)

Figures 1 through 5 identify the location of all sampling sites.

3.0 DATA SOURCES

Most of the analyses listed in the Site Hydrochemical Data Base were determined by several Rockwell Hanford Operations (Rockwell) laboratories on samples collected by Rockwell personnel. During 1977-1980, there was a sampling activity known as the confined aquifer sampling program (CASP) with two Rockwell laboratories jointly providing the analyses. The BWIP began sample collection in 1980 and in 1982 one of the Rockwell analytical laboratories (Research and Engineering) was transferred into the BWIP. Since 1982 the BWIP has operated its own laboratory and performed all field and most laboratory analyses. Subcontractors of the BWIP analyze selected constituents requiring specialized equipment.

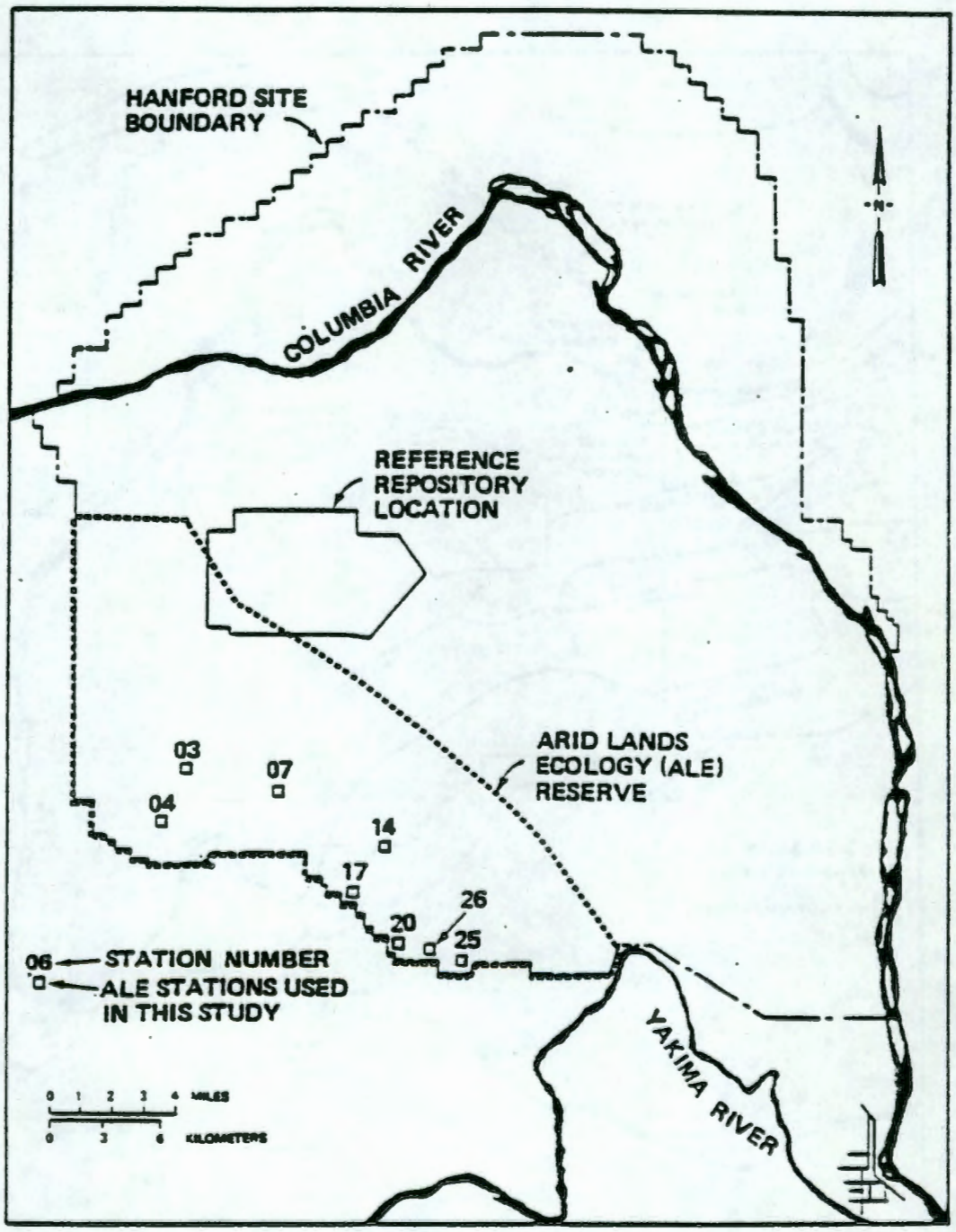

FIGURE 1. Location of Precipitation Stations.

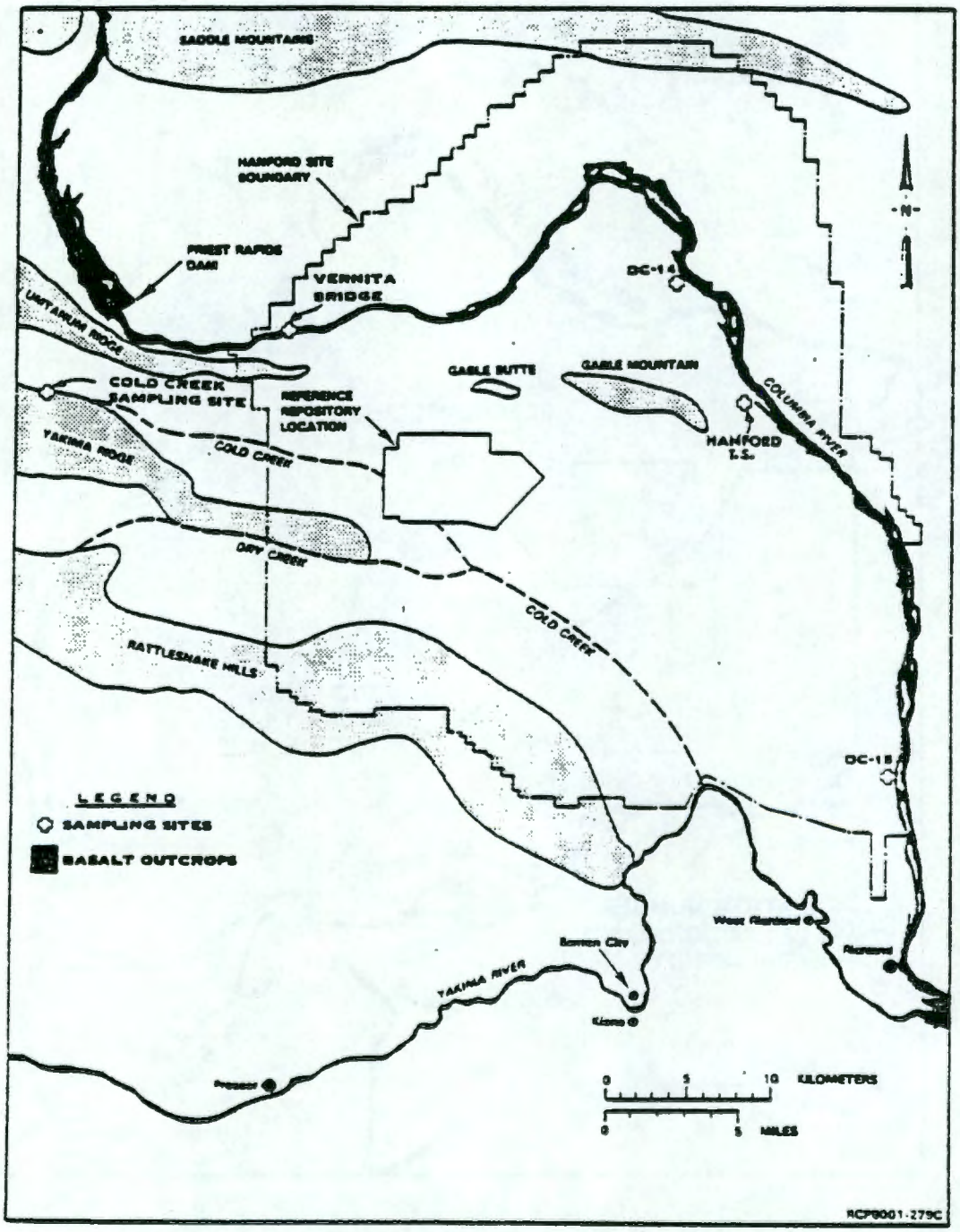

FIGURE 2. Location of Surface Water Sampling Sites.

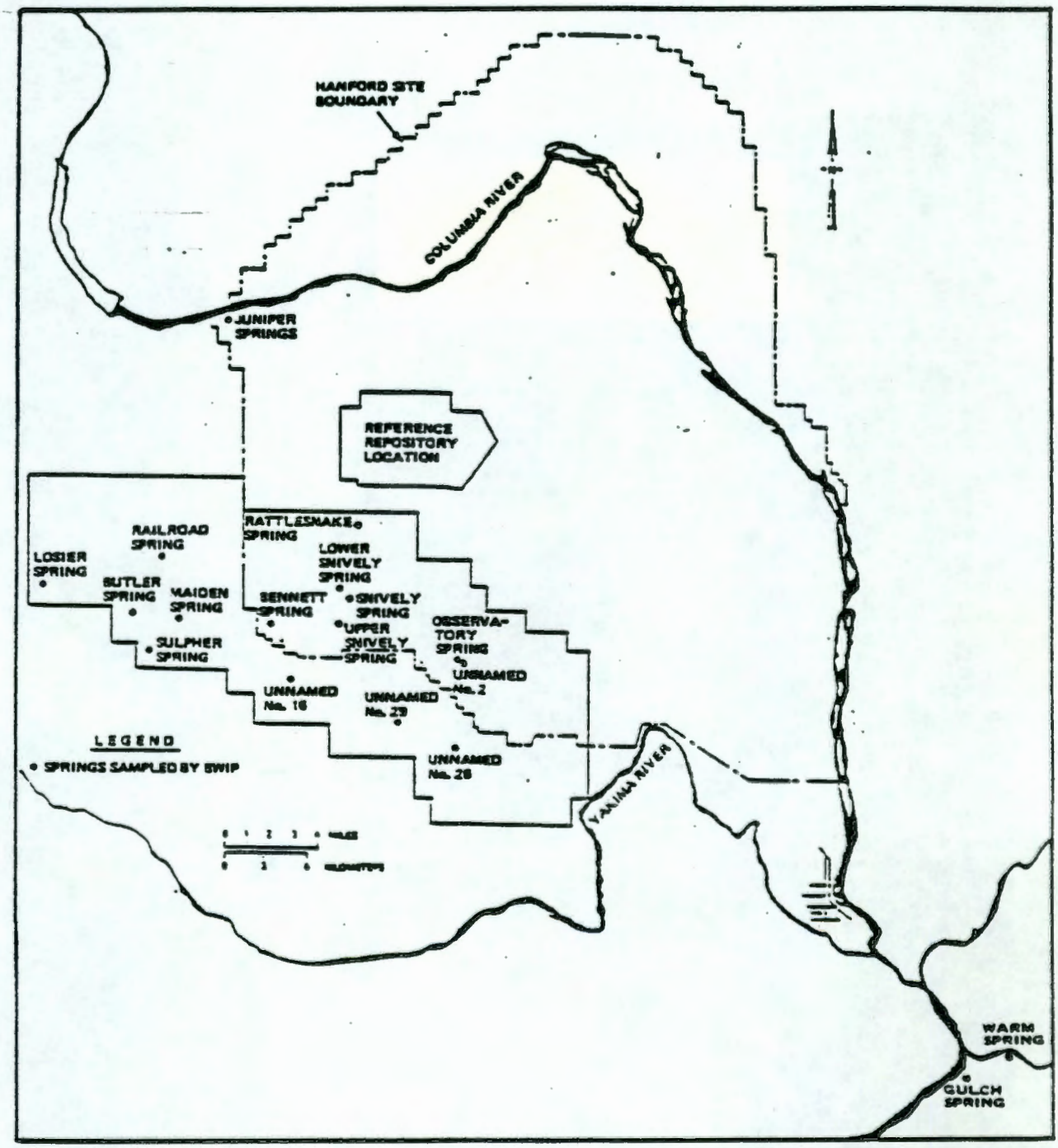

FIGURE 3. Location of Springs.

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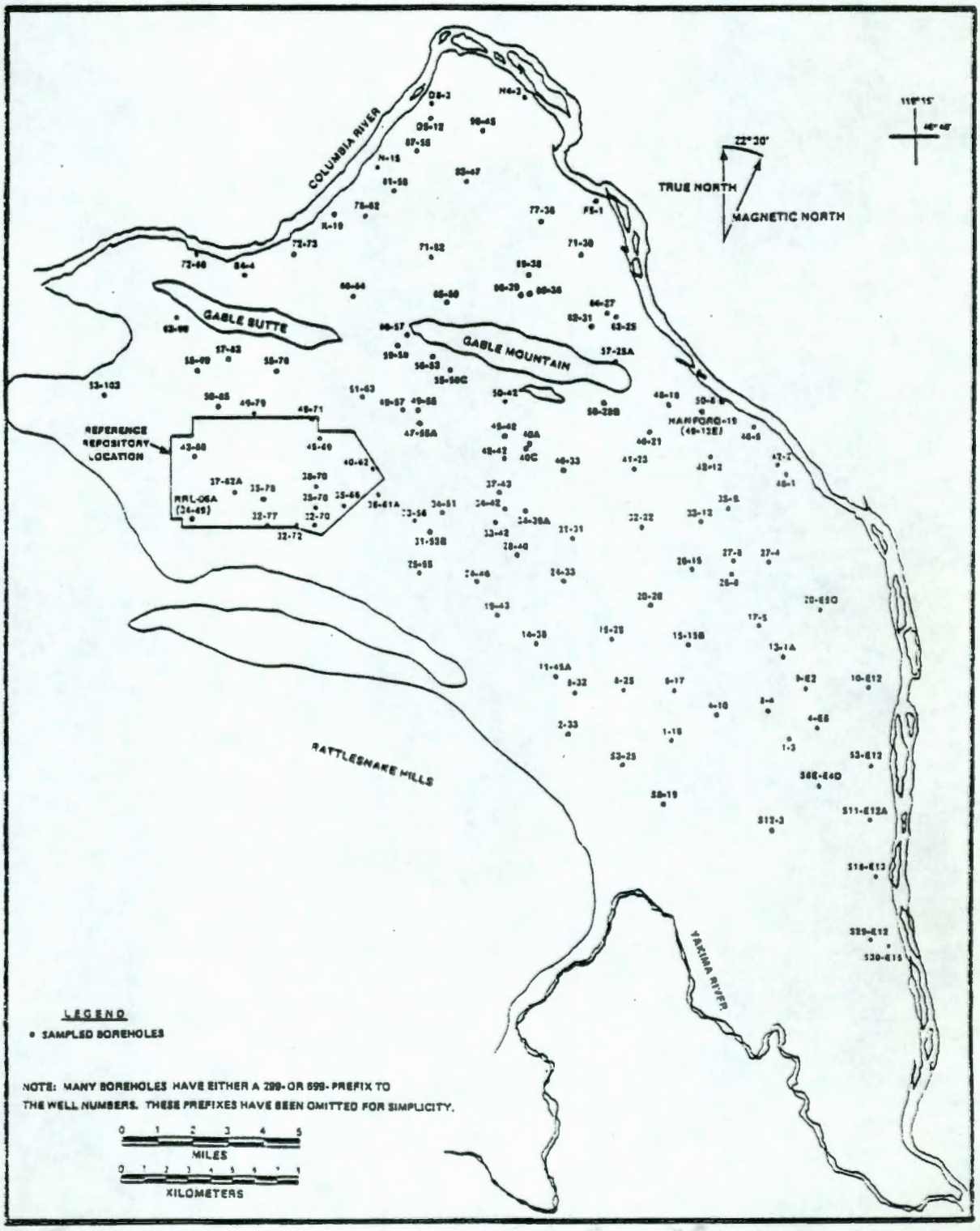

FIGURE 4. Locations of Sampling wells for the unconfined Aquifer.

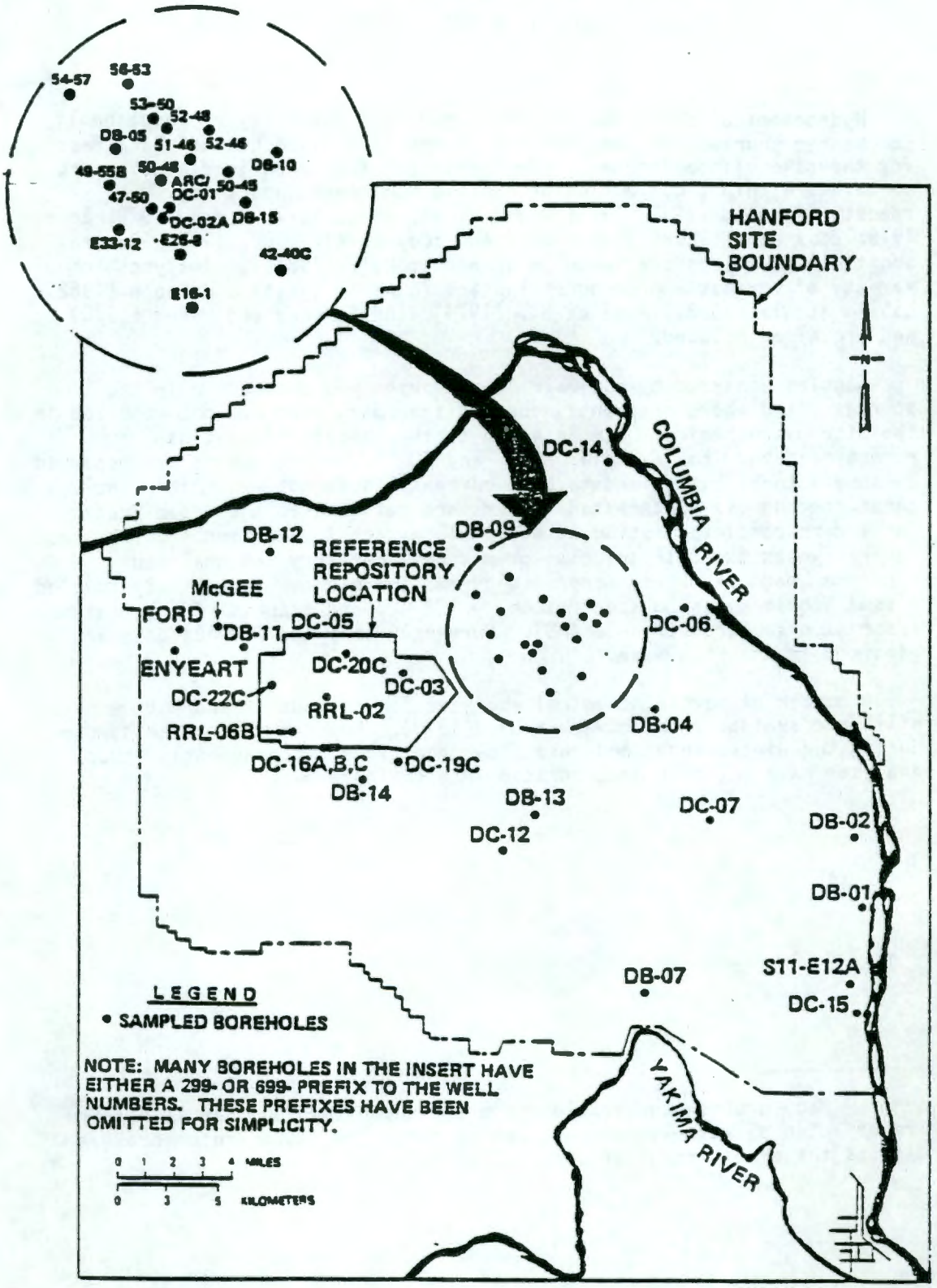

FIGURE 5. Location of Sampling Boreholes for the Confined Aquifers.

Hydrochemical data also are available from a variety of additional documented sources and are included in the Site Hydrochemical Data Base for the sake of completeness. Most data for the unconfined aquifer are contained within a collection of Pacific Northwest Laboratory (PNL) reports (Raymond et al. 1976; Myers et al. 1976, 1977; Myers, 1978; Eddy, 1979; Eddy and Wilbur, 1980, 1981; and Eddy et al. 1982, 1983). Several additional analyses are found in Graham et. al. (1984)[1]. Analyses for a variety of springs and/or boreholes are found in Strait and Moore (1982), LaSala et al. (1973), Apps et al. (1979), and Summers and Weber (1978) and are also included.

Samples analyzed by non-BWIP laboratories and documented in the sources cited above frequently contain some data that are not reported in the Site Hydrochemical Data Base due to the specific format used in reporting data. For example, HCO_3^- and CO_3^{2-} concentrations are reported by some authors but this data base currently does not explicitly include these components. Interested readers are referred to those publications for a more complete listing of available data. In addition, for the past several years the BWIP solution chemistry laboratory has analyzed aluminum, magnesium, and manganese by two techniques (inductively coupled plasma atomic emission spectroscopy - ICP-AES and graphite furnace atomic adsorption spectrometry - GFAAS). Currently only the ICP-AES data are reported in the data base.

A number of partial chemical analyses for springs of the Rattlesnake Hills are available in Schwab et al. (1979). However, most were sampled during the winter under non-base flow conditions. Consequently, those analyses have not been incorporated into the data base.

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1 - Many groundwater samples from the unconfined aquifer at Hanford are affected by waste management activities. The listed references discuss the areal extent of disposal effects.

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4.0 STRUCTURE OF DATA BASE PRINTOUT

The printout of the Site Hydrochemical Data Base is found in Appendix A and is arranged into the following series of reports:

- o Sampling Events - pages 69-89
- o Major Inorganics (4 reports) - pages 90-173
- o Trace Elements (2 reports) - pages 174-213
- o Dissolved Gases - pages 214-217
- o Radioactive Isotopes (2 reports) - pages 218-243
- o Stable Isotopes - pages 244-257

Each report contains specific information as described below. Where specified data or information is unknown or not available a blank field occurs unless otherwise indicated.

The printout of data is constrained to the format of the data base software package (INFO - Copyright 1983, Henco Software, Inc.). As such, numerical values for specific parameters cannot be truncated to the proper number of significant figures for output. In general, one or more zeroes may be added to some printout values to satisfy formating requirements. The user should be aware of this limitation and refer to the analytical uncertainties that are discussed elsewhere in this document, or may be included in the data tables, to ascertain the significance of trailing zeroes for data entries.

4.1 Sampling Events (pages 69-89)

Figure 6 is a copy of a page of the sampling event report and contains information that is common to all samples associated with a sampling event. For example:

- o Location - This is a site name referenced to the maps in Figures 1 to 5
- o Record Number - This is a sequential number given to each sample event in the data base

9 5 0 1 4 9 2 1

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
699-E12-1	1	SITE-161	ELEPHANT MOUNTAIN	468	510	PUMP	5/15/82	2
	2	SITE-162	ELEPHANT MOUNTAIN	468	510	PUMP	7/13/82	2
	3	SITE-163	ELEPHANT MOUNTAIN	468	510	PUMP	7/13/82	2
	4	SITE-164	ELEPHANT MOUNTAIN	468	510	PUMP	7/14/82	2
699-E26-8	5	SITE-166	RATTLESNAKE RIDGE	326	396	PUMP	5/18/82	2
	6	SITE-167	RATTLESNAKE RIDGE	326	396	PUMP	5/19/82	2
	7	SITE-168	RATTLESNAKE RIDGE	326	396	PUMP	5/19/82	2
699-E33-12	8	SITE-170	RATTLESNAKE RIDGE	305	380	PUMP	5/21/82	2
	9	SITE-171	RATTLESNAKE RIDGE	305	380	PUMP	5/22/82	2
	10	SITE-172	RATTLESNAKE RIDGE	305	380	PUMP	5/22/82	2
699-42-40C	11	SITE-177	RATTLESNAKE RIDGE	306	390	PUMP	5/20/82	2
	12	SITE-178	RATTLESNAKE RIDGE	306	390	PUMP	5/21/82	2
	13	SITE-179	RATTLESNAKE RIDGE	306	390	PUMP	5/21/82	2
	14	SITE-180	RATTLESNAKE RIDGE	306	390	PUMP	11/19/82	2
	15	SITE-176	ELEPHANT MOUNTAIN	9,999	9,999	PUMP	4/16/82	2
699-47-50	16	SITE-205	RATTLESNAKE RIDGE	260	295	PUMP	6/25/80	3
	17	SITE-181	RATTLESNAKE RIDGE	9,999	9,999	PUMP	7/15/82	2
699-49-55B	18	SITE-183	RATTLESNAKE RIDGE	170	226	PUMP	5/27/82	2
	19	SITE-184	RATTLESNAKE RIDGE	170	226	PUMP	5/27/82	2
	20	SITE-185	RATTLESNAKE RIDGE	170	226	PUMP	5/28/82	2
699-50-45	21	SITE-203	RATTLESNAKE RIDGE	133	178	PUMP	5/29/80	3
	22	SITE-186	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 6/82	2
699-50-48	23	SITE-204	RATTLESNAKE RIDGE	213	250	PUMP	6/10/80	3
	24	SITE-187	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 7/82	2
699-51-46	25	SITE-201	RATTLESNAKE RIDGE	120	165	PUMP	5/ 6/80	3
	26	SITE-188	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 4/82	2
699-52-46A	27	SITE-202	RATTLESNAKE RIDGE	165	225	PUMP	5/13/80	3
	28	SITE-189	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 7/82	2
699-52-48	29	SITE-199	RATTLESNAKE RIDGE	145	195	PUMP	4/ 8/80	3
	30	SITE-190	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/10/82	2
699-53-50	31	SITE-200	RATTLESNAKE RIDGE	146	193	PUMP	4/17/80	3
	32	SITE-191	RATTLESNAKE RIDGE	9,999	9,999	PUMP	7/14/82	2
699-54-57	33	SITE-192	RATTLESNAKE RIDGE	236	321	PUMP	5/17/82	2
699-56-53	34	SITE-196	RATTLESNAKE RIDGE	190	270	PUMP	6/ 3/82	2
	35	SITE-197	RATTLESNAKE RIDGE	190	270	PUMP	6/ 3/82	2
D3-01	36	CP70	HABTON	976	990	PUMP	7/20/70	1

FIGURE 6. Sampling Events Report.

- o Reference Number - Each sampling event may have as many as three samples associated with it. The first sample number is arbitrarily chosen as the reference number for the event. Non-BWIP data are assigned a unique reference number for bookkeeping purposes.[2]

- o Producing Zone - This information applies only to groundwater samples and represents the major stratigraphic zone(s) from which the sample came. Some inconsistencies in level of stratigraphic detail exist but all producing zone information is referenced to the representative geologic log in Figure 7.

- o Packer Top/Bottom - For boreholes these data fields report the depth interval below surface (in feet) that was isolated by packers (or a packer and the bottom of the hole) during sampling. Where unavailable the number 9,999 is reported.

- o Sampling Method - A brief description of the sampling technique used is reported. The sample method and its identifier in the data base are as follows:

---

2 - Samples collected by the BWIP are assigned a two-part numerical code. The first two digits (e.g., 83-) refer to the fiscal year (FY) in which they were collected. Some samples reported in the data base were collected as part of the CASP and analyzed by the Analytical Laboratories of Rockwell. These samples are identified by sample numbers with a CP-prefix. During FY 1979 some samples analyzed under the auspices of CASP were taken from borehole DB-15 which was partially funded by the BWIP. As a consequence, water samples were assigned both CP- and 79- sample numbers. The latter are used in the data base while the equivalent CP-numbers are maintained in BWIP records. All remaining non-BWIP samples are arbitrarily assigned a sample number of the form SITE-xxx.

1 2 1 2 4 9 4 1 0 6 1

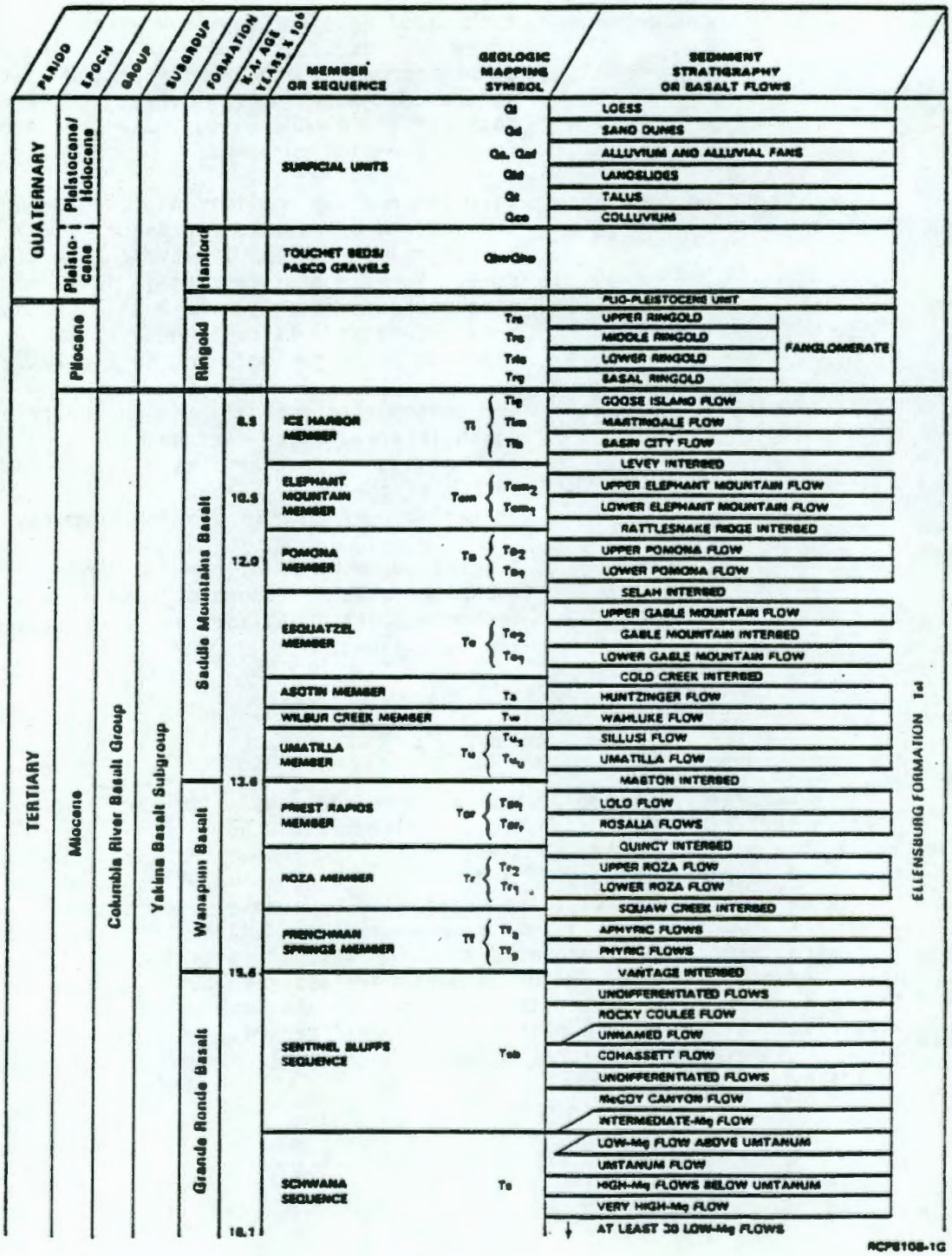

FIGURE 7. Stratigraphic Units Present in the Pasco Basin.

Airlift - Airlift pumping using compressed air

Airlift IG - Airlift pumping using compressed inert gas

Dip - Sample bottle was submerged below water surface

Flowing - Sampled zone was flowing under artesian pressure. For springs, water was pumped through submerged plastic tubing using a peristaltic pump

Precipitation Collector - A sampling device consisting of a large funnel emptying into a plastic sample bottle.

Swab - Swab cups and rods

Pump - A submersible or turbine pump

Windmill - A windmill-type pump actuated by a compressed air cylinder

- o Date - The date that sampling occurred (Month/day/year). The data base requires a date even if one is unknown. Many unconfined aquifer samples fall into this category and are dealt with by recording the date as 1/1/xx, where xx is the calendar year of collection

- o Source - A number which is keyed to specific data source references appearing at the end of the sampling event report.

4.2 Major Inorganics - Report 1 (pages 90-110)

Figure 8 presents a copy of a portion of the first major inorganic report. Some of this information is common to the sampling event while the remainder refers to a specific sample. Where the concentration of a chemical species is below the detection limit of the instrument a "<" will precede the numerical estimate of detection limit.

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
299-E16-1	1	SITE-161	8.600	9.050	325.00			23.30	
	2	SITE-162	8.300	8.450	380.00			22.90	
	3	SITE-163	8.800	8.350	370.00			22.80	
	4	SITE-164	8.600	8.300	340.00			23.20	
299-E26-8	5	SITE-166	8.400	8.500	360.00			21.30	
	6	SITE-167	8.300	8.350	370.00			19.50	
	7	SITE-168	8.300		375.00			20.60	
299-E33-12	8	SITE-170	9.100	9.750	345.00			20.30	
	9	SITE-171	9.000	9.450	305.00			19.70	
	10	SITE-172	8.900	8.250	315.00			19.90	
699-42-40C	11	SITE-177	9.000	8.750	365.00			18.40	
	12	SITE-178	8.300		260.00			18.40	
	13	SITE-179	8.200	8.450	330.00			19.60	
	14	SITE-180							
	15	SITE-176	7.800	7.700	425.00			18.00	
699-47-50	16	SITE-205		7.500	521.60			18.30	
	17	SITE-181	7.800	7.800	560.00			19.40	
699-49-55B	18	SITE-183	7.600	7.800	375.00			18.10	
	19	SITE-184	7.600	7.800	365.00			18.40	
	20	SITE-185	7.500					18.00	
699-50-45	21	SITE-203		7.400	301.10			16.80	
	22	SITE-186	8.200	7.600	410.00			17.60	
699-50-48	23	SITE-204		7.500	320.30			18.40	
	24	SITE-187	8.200	7.600	470.00			19.80	
699-51-46	25	SITE-201		8.900	254.90			16.50	
	26	SITE-188	8.800	8.600	320.00			17.30	
699-52-46A	27	SITE-202		7.400	313.40			17.80	
	28	SITE-189	8.000	7.650	360.00			18.40	
699-52-48	29	SITE-199		7.400	330.70			16.80	
	30	SITE-190	8.000	8.050	400.00			17.90	
699-53-50	31	SITE-200		7.400	306.80			16.80	
	32	SITE-191	7.600	7.650	365.00			17.20	
699-54-57	33	SITE-192	7.600	7.800	350.00			18.70	
699-56-53	34	SITE-196	7.500	7.750				17.40	
	35	SITE-197	7.600	7.850				18.40	
DB-01	36	CP73		8.360	401.00			22.20	26.10

FIGUR Major Inorganics Report 1.

o Location -	Same as above.
o Record Number -	Same as above.
o Sample Number -	The specific sample number associated with the sampling event for which data exist.
o Lab pH -	The pH value (in pH units) measured in the laboratory at room temperature. It usually is determined on only one of the samples in a sampling event but is recorded for all common samples
o Field pH -	The pH value (in pH units) measured in the field at the time of sample collection and at the collection temperature. It usually is determined on only one of the samples in a sampling event but is recorded for all common samples.
o Specific Conductance -	It is reported in units of microsiemens/cm at 25°C and usually is determined on only one of the samples in a sampling event but is recorded for all common samples.
o Turbidity -	It is measured in the field on an unfiltered sample in nephelos turbidity units (NTU) and usually is determined on only one of the samples in a sampling event but is recorded for all common samples.
o ORP -	The oxidation reduction potential (ORP) is measured in units of millivolts with a platimum electrode relative to an Orion reference electrode that has the potential characteristics of a saturated calomel electrode. Measurements are reported for the collection temperature listed and usually are determined on only one of the samples in a sampling event.

9212494106 5

Data are recorded for all common samples. These data can be converted by the following equation to a standard hydrogen reference electrode at 25°C yielding a value of Eh:

$$Eh\ (MV) = E_{pt,T} + 257.1 - 0.64\ T(^{o}C).$$

This equation results from linear regression of data found in Orion (1980).

- o Sample Temperature - The temperature (in °C) of the sample at the time of collection.
- o In Situ Temperature - For boreholes this is the actual temperature (in °C) for the producing zone as determined by downhole temperature logging with a thermistor, thermocouple, or temperature transducer.

4.3 Major Inorganics - Report 2 (pages 111-131)

Figure 9 is a contination of the major inorganic data. The location, record number and sample number are interpreted as described previously. Where the concentration of a species is below the detection limit of the instrument a "<" will precede the numerical estimate of detection limit.

- o NA - Sodium concentration in mg/L.
- o K - Potassium concentration in mg/L.
- o CA - Calcium concentration in mg/L.
- o MG - Magnesium concentration in mg/L.

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
299-E16-1	1	SITE-161	28.000	10.900	15.000	8.900
	2	SITE-162	30.000	10.200	15.000	9.200
	3	SITE-163	31.000	10.200	28.000	9.600
	4	SITE-164	31.000	10.200	26.000	9.900
299-E26-8	5	SITE-166	20.000	10.400	19.000	8.200
	6	SITE-167	18.000	9.900	21.000	9.200
	7	SITE-168	19.000	9.900	19.000	9.200
299-E33-12	8	SITE-170	17.000	8.600	14.000	7.200
	9	SITE-171	17.000	8.300	18.000	7.700
	10	SITE-172	17.000	8.000	19.000	8.500
699-42-40C	11	SITE-177	35.000	14.400	10.000	3.700
	12	SITE-178	33.000	13.700	7.500	4.500
	13	SITE-179	35.000	13.600	10.000	4.600
	14	SITE-180	36.000	12.700	18.700	4.500
	15	SITE-176	24.600	6.400	26.600	11.800
699-47-50	16	SITE-205	20.390	7.390	55.310	14.660
	17	SITE-181	22.000	7.200	46.000	18.500
699-49-55B	18	SITE-183	11.000	6.900	38.000	11.900
	19	SITE-184	12.000	6.800	38.000	12.200
	20	SITE-185	12.000	6.800	38.000	12.400
699-50-45	21	SITE-203	16.390	5.710	30.020	10.210
	22	SITE-186	17.000	6.000	92.000	15.700
699-50-48	23	SITE-204	30.390	10.990	22.080	4.230
	24	SITE-187	33.000	11.000	19.000	6.200
699-51-46	25	SITE-201	20.000	9.310	32.020	4.230
	26	SITE-188	21.000	9.200	19.000	2.200
699-52-46A	27	SITE-202	16.510	4.230	33.630	9.190
	28	SITE-189	16.000	7.300	24.000	10.500
699-52-48	29	SITE-199	51.700	6.690	14.430	3.060
	30	SITE-190	50.000	6.400	6.200	1.900
699-53-50	31	SITE-200	20.390	7.120	28.980	8.630
	32	SITE-191	21.000	7.300	30.000	10.900
699-54-57	33	SITE-192	2.300	7.200	25.000	11.600
699-56-53	34	SITE-196	21.000	6.800	38.000	13.200
	35	SITE-197	21.000	6.600	38.000	13.500
DB-01	36	CP73	94.800	12.700	2.000	0.550

FIGURE 9. Major Inorganics Report 2.

4.4 Major Inorganics - Report 3 (pages 132-152)

Figure 10 is a continuation of the major inorganic data. The location, record number and sample number are interpreted as described previously. Where the concentration of a species is below the detection limit of the instrument a "<" will precede the numerical estimate of detection limit.

- o Lab Alkalinity - A laboratory measurement of alkalinity usually is made on only a single sample for a sampling event but is recorded in the data base for all associated samples. It is reported in units of mg/L of $CaCO_3$.
- o Field Alkalinity - A measurement of alkalinity made in the field at the time of sample collection. See under lab alkalinity for additional information.
- o SI - Silicon concentration in mg/L.
- o TOC - Total organic carbon in mg/L.
- o Total Carbon - The sum of all organic and inorganic forms of carbon in mg/L.

4.5 Major Inorganics - Report 4 (pages 153-173)

Figure 11 is a continuation of the major inorganic data. The location, record number and sample number are interpreted as described previously. Where the concentration of a species is below the detection limit of the instrument a "<" will precede the numerical estimate of detection limit.

- o CL - Chloride concentration in mg/L.
- o F - Fluoride concentration in mg/L.
- o BR - Bromide concentration in mg/L.
- o SO4 - Sulfate concentration in mg/L.
- o NO3 - Nitrate concentration in mg/L.
- o PO4 - Phosphate concentration in mg/L.

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
299-E16-1	1	SITE-161		90.000	32.000		
	2	SITE-162		143.000	32.000		
	3	SITE-163		144.000	31.000		
	4	SITE-164		145.000	32.000		
299-E26-8	5	SITE-166			37.000		
	6	SITE-167		103.000	37.000		
	7	SITE-168		104.000	37.000		
299-E33-12	8	SITE-170		39.000	28.000		
	9	SITE-171		50.000	31.000		
	10	SITE-172		64.000	34.000		
699-42-40C	11	SITE-177		122.000	34.000		
	12	SITE-178		123.000	34.000		
	13	SITE-179		125.000	34.000		
	14	SITE-180					
	15	SITE-176		128.000	23.000		
699-47-50	16	SITE-205					
	17	SITE-181		95.000	24.000		
699-49-55B	18	SITE-183		120.000	34.000		
	19	SITE-184		122.000	34.000		
	20	SITE-185		117.000	33.000		
699-50-45	21	SITE-203					
	22	SITE-186		114.000	27.000		
699-50-48	23	SITE-204					
	24	SITE-187		114.000	31.000		
699-51-46	25	SITE-201					
	26	SITE-188		86.000	32.000		
699-52-46A	27	SITE-202					
	28	SITE-189		117.000	37.000		
699-52-48	29	SITE-199					
	30	SITE-190		147.000	28.000		
699-53-50	31	SITE-200					
	32	SITE-191		114.000	33.000		
699-54-57	33	SITE-192		117.000	33.000		
699-56-53	34	SITE-196		130.000	20.000		
	35	SITE-197		129.000	19.000		
DB-01	36	CP73		202.000	31.800		47.370

FIGURE 10. Major Inorganics Report 3.

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MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
299-E16-1	1	SITE-161	2.600	0.620		26.000			9.8
	2	SITE-162	1.400	0.610		36.000			-9.0
	3	SITE-163	1.200	0.570		31.000			2.8
	4	SITE-164	< 1.000	0.590		35.000			0.4
299-E26-8	5	SITE-166	7.900	0.510		35.000			
	6	SITE-167	7.400	0.580		18.000			2.9
	7	SITE-168	8.100	0.530		37.000			-5.5
299-E33-12	8	SITE-170	6.600	0.230		28.000			18.1
	9	SITE-171	7.300	0.200		26.000			17.1
	10	SITE-172	6.100	0.170		25.000			13.3
699-42-40C	11	SITE-177	3.000	0.660		38.000			-10.9
	12	SITE-178	4.000	0.960		17.000			-8.1
	13	SITE-179	4.000	0.840		16.000			-4.2
	14	SITE-180	3.500	0.700		15.500			
	15	SITE-176	5.100	0.850		18.000			6.1
699-47-50	16	SITE-205	30.950	0.570		107.300	7.63		
	17	SITE-181	31.000	0.660		100.000			0.7
699-49-55B	18	SITE-183	16.700	0.370		20.000			3.3
	19	SITE-184	9.600	0.260		21.000			6.4
	20	SITE-185	10.600	0.230		17.000			9.2
699-50-45	21	SITE-203	22.970	0.490		20.520	0.93		
	22	SITE-186	22.000	0.600		18.000			34.4
699-50-48	23	SITE-204	16.980	0.800		16.780	0.12		
	24	SITE-187	26.000	0.640		31.000			-7.5
699-51-46	25	SITE-201	16.980	0.460		32.850	1.18		
	26	SITE-188	16.000	0.540		28.000			-10.0
699-52-46A	27	SITE-202	25.950	0.460		21.020	0.43		
	28	SITE-189	25.000	0.470		19.000			-8.1
699-52-48	29	SITE-199	4.990	0.710		35.270			
	30	SITE-190	4.000	0.640		24.000			-12.2
699-53-50	31	SITE-200	20.990	0.420		18.930	1.05		
	32	SITE-191	21.000	0.600		29.000			-0.2
699-54-57	33	SITE-192	12.900	0.530		20.000			-11.8
699-56-53	34	SITE-196	28.000	0.200		< 1.000			8.7
	35	SITE-197	27.000	0.140		2.000			9.3
DD-01	36	CP73	16.000	3.100		0.500			-0.8

FI 11. Major Inorganics Report 4.

- Calculated Balance - The calculated percent deviation between the observed total cations and anions (each measured in milliequivalents/L) determined according to the following equation:

$$\text{Calculated Balance} = \left[\frac{\text{Total Cations} - \text{Total Anions}}{\text{Total Cations} + \text{Total Anions}}\right] \times 100\%$$

4.6 Trace Elements - 2 Reports (pages 174-193 and 194-213, respectively)

Figures 12 and 13 are examples of the printout for trace element data. The location, record number, and sample number are interpreted as described previously. All elements are reported by their conventional chemical symbols and concentrations are reported in units of mg/L. Measurements below detection are noted by use of a "<".

Because of their low concentrations in groundwaters, trace elements are more likely than major constituents to suffer the effects of contamination prior to analysis. While the BWIP has not systematically evaluated contamination-control of trace element concentrations one cautionary comment is warranted. The elevated zinc concentrations observed in precipitation samples probably are due to the use of galvanized iron funnels in the sample collectors. Design of these collectors currently is under review.

4.7 Dissolved Gases (pages 214-217)

Figure 14 presents a portion of the dissolved gas report. The location, record number, and sample number are interpreted as described previously. The gas data are reported in units of mole percent for each constituent. The vendor who supplied the analyses listed in this report extracted dissolved gases, under vacuum, from groundwater samples in stainless steel containers. The extraction time was insufficient to remove all of the dissolved gases. Therefore, because of the different solubilities and exsolution rates of individual gas components the relative amounts (mole %) reported in this table must be regarded only as estimates.[3] Similarly, the vendor reported the volume of gas extracted from each sample but, for the reason cited above, these results are known to be significantly in error and are not reported. Changes in procedures for sample collection and analysis of dissolved gases in groundwaters are in progress.

[3]Currently, the only use made of these data by the BWIP is with the relative amounts of the two major gaseous components, nitrogen and methane.

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
299-E16-1	1	SITE-161		0.060		< 0.036	< 0.030	< 0.001	0.040	
	2	SITE-162						<	0.030	
	3	SITE-163							0.040	
	4	SITE-164							0.040	
299-E26-8	5	SITE-166						<	0.030	
	6	SITE-167		0.092			< 0.012	< 0.001	< 0.030	
	7	SITE-168		0.092			< 0.012	< 0.001	< 0.030	
299-E33-12	8	SITE-170						<	0.030	
	9	SITE-171		0.098		< 0.084	< 0.009	< 0.001	< 0.030	
	10	SITE-172		0.098		< 0.084	< 0.009	< 0.001	< 0.030	
699-42-40C	11	SITE-177						<	0.030	
	12	SITE-178						<	0.030	
	13	SITE-179						<	0.030	
	14	SITE-180		0.110					0.008	
	15	SITE-176							2.720	
699-47-50	17	SITE-181		0.088		< 0.018		< 0.001	0.060	
699-49-55B	18	SITE-183						<	0.030	
	19	SITE-184						<	0.030	
	20	SITE-185		0.105		< 0.014		< 0.001	< 0.030	
699-50-45	22	SITE-186		0.090		< 0.012	< 0.010	< 0.001	0.040	
699-50-48	24	SITE-187		0.044		< 0.037	< 0.030	< 0.001	< 0.030	
699-51-46	26	SITE-188		0.087		< 0.160		< 0.001	0.300	
699-52-46A	28	SITE-189		0.059		< 0.005	< 0.007	< 0.001	< 0.030	
699-52-48	30	SITE-190		0.064		< 0.008	< 0.007	< 0.001	< 0.030	
699-53-50	32	SITE-191		0.053		< 0.010		< 0.001	0.080	
699-54-57	33	SITE-192		0.129				< 0.001	< 0.030	
699-56-53	34	SITE-196		0.096		< 0.012		< 0.001	< 0.030	
	35	SITE-197		0.096		< 0.012		< 0.001	< 0.030	
DB-01	36	CP73	< 0.0500	0.013	0.206	< 0.010	< 0.005	< 0.005	0.178	
	36	CP82	< 0.0500	0.012	0.089	< 0.010	< 0.005	< 0.005	0.363	
	38	B1-19	< 0.0100	0.014	0.130	< 0.010	< 0.003	< 0.002	0.050	0.048
	39	B1-65	< 0.0170	0.005	0.210	< 0.004	< 0.006	< 0.003	0.360	0.015
	39	B1-70	< 0.0170	0.005	0.210	< 0.004	< 0.006	< 0.003	0.370	0.015
	40	B2-27	< 0.0750	0.011	0.210	< 0.015	< 0.036	< 0.006	0.120	0.015
	40	B2-87	< 0.0750	0.011	0.200	< 0.015	< 0.036	< 0.006	0.130	0.014

FIGURE 12. Trace Elements Report 1.

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
299-E16-1	1	SITE-161			< 0.012	< 0.020		0.081	
	2	SITE-162							
	3	SITE-163							
	4	SITE-164							
299-E24-8	5	SITE-166							
	6	SITE-167			< 0.002	< 0.049		0.117	
	7	SITE-168			< 0.002	< 0.049		0.117	
299-E33-12	8	SITE-170							
	9	SITE-171	< 0.0020			< 0.048		0.097	
	10	SITE-172	< 0.0020			< 0.048		0.097	
699-42-40C	11	SITE-177							
	12	SITE-178							
	13	SITE-179							
	14	SITE-180							
	15	SITE-176							
699-47-50	17	SITE-181			< 0.002	< 0.028		0.097	
699-49-55B	18	SITE-183							
	19	SITE-184							
	20	SITE-185	< 0.0030		< 0.002	< 0.016		0.140	
699-50-45	22	SITE-186			< 0.006	< 0.025		0.117	
699-50-48	24	SITE-187	0.0330		< 0.016	< 0.013		0.085	
699-51-46	26	SITE-188			< 0.003	< 0.016		0.150	
699-52-46A	28	SITE-189	< 0.0030		< 0.003	< 0.011		0.081	
699-52-48	30	SITE-190	0.0054		< 0.003	< 0.018		0.088	
699-53-50	32	SITE-191			< 0.014	< 0.013		0.120	
699-54-57	33	SITE-192			< 0.014	< 0.016		0.226	
699-56-53	34	SITE-196			< 0.014	< 0.023		0.149	
	35	SITE-197			< 0.014	< 0.023		0.149	
DW-01	36	CP73	< 0.1000	< 0.100				< 0.005	
	36	CP82	< 0.1000	< 0.100				< 0.005	
	38	B1-19	< 0.1000	< 0.030	< 0.020	< 0.010	0.010	< 0.002	< 0.200
	39	B1-65		0.110	< 0.008	< 0.043	0.002	< 0.004	0.080
	39	B1-70		0.110	< 0.008	< 0.043	0.002	< 0.004	0.080
	40	B2-27	< 0.0030	0.100	< 0.026	< 0.160	0.002	< 0.150	< 0.340
	40	B2-87	< 0.0030	0.100	< 0.026	< 0.160	0.002	< 0.015	< 0.340

FIGURE 13. Trace Elements Report 2.

QAB DATA FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	N2	O2	CO2	AR	HE	H2	CH4	CARBON MONOXI
DB-13	92	83-404	83.30	0.02	0.07	0.97	<	0.01	15.60 <	0.10
DB-15	102	79-17	0.65	0.01	0.20 <	0.01 <	0.010	0.13 <	0.01 <	0.10
	103	79-35	0.27	0.02	0.01 <	0.01 <	0.010	0.10 <	0.01 <	0.10
	104	79-33	0.02	0.01 <	0.01 <	0.01 <	0.010	0.01 <	0.01 <	0.01
	105	79-15	7.57	0.18	0.06	0.35 <	0.010	0.33	29.20	14.40
	106	79-39	2.50	0.03	0.07	0.05 <	0.010	0.10	4.40 <	0.10
	109	79-51	3.58 <	0.01	0.03	0.09 <	0.010 <	0.01	96.30 <	0.10
	109	79-61	3.87 <	0.01	0.01	0.08 <	0.010 <	0.01	96.00 <	0.10
	109	79-92	3.80 <	0.01	0.02	0.08 <	0.010 <	0.01	96.10 <	0.10
	110	79-74	74.10	18.10	0.04	0.93 <	0.010	0.06	3.98	2.82
	110	79-85	70.30	18.60	0.04	0.88 <	0.010	0.04	7.07	3.10
	111	79-80	4.21	0.02 <	0.01	0.08 <	0.010	0.82	94.87 <	0.10
	111	79-99	4.00 <	0.01 <	0.01	0.07 <	0.001	0.85	95.07 <	0.10
	112	79-62	10.88	0.38	1.33 <	0.01 <	0.010	4.35	83.06 <	0.10
	112	79-84	7.62	0.11	0.10	0.19 <	0.010 <	0.01	91.98 <	0.10
	114	80-35	10.90	0.71	0.20	0.22 <	0.010	1.07	86.90 <	0.10
	114	80-41	8.34	0.18	0.22	0.18 <	0.010	1.28	89.80 <	0.10
	115	80-24	5.40 <	0.01	0.01	0.11		0.09	94.40 <	0.10
	115	80-74	5.50 <	0.01	0.02	0.11 <	0.010	0.05	94.30 <	0.10
	116	80-42	7.77 <	0.01 <	0.01	0.16 <	0.010	0.95	91.10 <	0.10
	116	80-77	8.38 <	0.01 <	0.01	0.16		0.94	90.50 <	0.10
	117	80-1	5.60 <	0.01 <	0.01	0.09 <	0.010 <	0.01	94.30 <	0.10
	117	80-51	6.06 <	0.01 <	0.01	0.15 <	0.010 <	0.01	93.80 <	0.10
DC-05	139	79-30	1.70 <	0.01 <	0.01	0.16	0.010 <	0.01	93.40	4.72
DC-06	143	80-238	98.00	0.01 <	0.01	1.12		0.01	0.57	0.10
	149	80-15	97.60	0.49	0.16	1.35	<	0.01 <	0.01 <	0.10
	151	80-29	97.80 <	0.01	0.04	1.16		0.17	0.48 <	0.10
	151	80-37	96.80	0.12 <	0.01	1.60	0.320	0.20	0.90 <	0.10
	152	79-57	97.50 <	0.02 <	0.02	1.14	0.300	0.24	0.77 <	0.10
	152	79-58	97.60	0.05 <	0.01	1.17	0.260	0.19	0.75 <	0.10
	153	80-45	96.00 <	0.01 <	0.01	1.23		0.23	1.58 <	0.10
	153	80-75	96.00	0.19 <	0.01	1.54		0.29	1.95 <	0.10
DC-07	154	82-23	91.30	0.59 <	0.01	1.19		0.08	4.32	2.30
	154	82-56	92.00	0.37 <	0.01	1.13		0.09	4.39	1.80
	155	82-10A	94.60 <	0.01	0.02	1.01	<	0.01	4.14 <	0.10
	155	82-10B	91.00	0.54 <	0.01	1.10	0.200	0.03	5.16	2.00
	155	82-33	89.70	0.64 <	0.01	1.10		0.03	5.19	3.20
DC-12	162	80-80	3.42 <	0.01	0.50	0.14 <	0.010 <	0.01	95.90 <	0.10
	163	80-100	7.78 <	0.01 <	0.01	0.11 <	0.010 <	0.01	92.10 <	0.10
	163	80-40	5.79	0.01 <	0.01	0.13 <	0.010 <	0.01	94.10 <	0.10
	164	80-97	5.20	0.11	0.06	0.12 <	0.010 <	0.01	92.70	1.80
	165	80-32	7.86 <	0.01	0.13	0.12 <	0.010 <	0.01	91.90 <	0.10
	167	80-124	8.30 <	0.01	0.02	0.14 <	0.010 <	0.01	91.50 <	0.10
	172	80-234	99.20	0.01	0.02	0.63 <	0.010 <	0.01	0.11 <	0.10

FIG 14. Dissolved Gases Report.

Absolute gas concentrations are not available except for a few non-BWIP samples (Apps et al., 1979) and they are not reported in the data base. More recent sample collection techniques have employed a gas separation barrel from which gas concentrations can be obtained. These results will be reported in a future update of this document. Samples showing high relative amounts of dissolved oxygen are thought to reflect air contamination during sampling. A "<" denotes analyses below the detection limit of the mass spectrometer.

Cross-referencing sample numbers between dissolved gas samples and the appropriate sampling method (Sampling Events Report) illustrates a source of uncertainty in this report that must be acknowledged. There is an indication that some gas samples were collected by airlift techniques. This implication is incorrect as gas samples are never collected in that manner. Future updates of this data package will seek to correct these errors.

Several dissolved gas analyses for borehole DB-15 (sample numbers 79-15, 79-17, 79-33, 79-35, and 79-39) were analyzed under conditions where water vapor present in the gas was not compensated for. While these few analyses are of questionable value they are included for completeness.

4.8 Radioactive Isotopes - Report 1 (pages 218-230)

Figure 15 is a portion of the first report for radioactive isotopes. The location, record number, and sample number are interpreted as described previously. Measurements below detection are noted by use of a "<". The following information is given:

- o C-14 PMC - The amount of carbon-14 relative to non-radiogenic carbon in the sample compared to modern values and reported as Percent Modern Carbon (PMC). A "Y" preceding this value indicates that it was not provided by the vendor but was computed from the reported age (see below) acccording to the following equation:

$$\text{C-14 PMC} = 100 \times \exp\left[\frac{0.693 \times t}{5570}\right] \%$$

Where: t = Uncorrected Sample "age" in years.

- o PMC Range - Where reported, this is the uncertainty (in percent) for C-14 PMC given by the vendor.

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
299-E16-1	1	SITE-161							5.25	0.22
	2	SITE-162							0.30	0.07
	3	SITE-163							-0.01	0.07
	4	SITE-164							0.09	0.06
299-E26-8	5	SITE-166							-0.03	0.06
	6	SITE-167							1.04	0.11
	7	SITE-168							1.82	0.11
299-E33-12	8	SITE-170							84.50	1.80
	9	SITE-171							90.00	2.10
	10	SITE-172							103.00	2.00
699-42-40C	11	SITE-177							12.00	0.40
	12	SITE-178							5.98	0.22
	13	SITE-179							3.78	0.13
	14	SITE-180							4.18	0.13
	15	SITE-176							374.00	7.00
699-47-50	16	SITE-205							308.20	8.64
	17	SITE-181							97.00	3.10
699-49-55B	18	SITE-183							0.24	0.09
	19	SITE-184							0.25	0.08
	20	SITE-185							0.22	0.08
699-50-45	21	SITE-203	Y	26.80		10580.0	270.0	270.0	0.16	0.13
	22	SITE-186							0.36	0.07
699-50-48	23	SITE-204	Y	17.02		14230.0	350.0	350.0	17.22	0.38
	24	SITE-187							4.10	0.22
699-51-46	25	SITE-201	Y	40.87		7190.0	160.0	160.0	-0.06	0.16
	26	SITE-188							0.57	0.09
699-52-46A	27	SITE-202	Y	24.40		11335.0	200.0	200.0	0.45	0.13
	28	SITE-189							0.09	0.08
699-52-48	29	SITE-199	Y	14.28		15640.0	210.0	210.0	0.26	0.16
	30	SITE-190							0.28	0.08
699-53-50	31	SITE-200	Y	40.42		7280.0	120.0	120.0	1.79	0.19
	32	SITE-191							0.45	0.08
699-54-57	33	SITE-192							0.02	0.09
699-56-53	34	SITE-196							0.42	0.08
	35	SITE-197							-0.02	0.06
DB-01	36	CP73							0.04	0.05

'RE 15. Radioactive Isotopes Report 1.

- o C-14 "Age" - This column contains an "age" (in years) of the C-14 in the groundwater based upon a calculation from the reported C-14 PMC value as follows:

$$\text{C-14 "Age" (yrs)} = -\frac{5,570}{0.693} \times \ln\left[\frac{\text{C-14 PMC}}{100}\right]$$

These "ages" are <u>not</u> corrected for the effects of dead carbon. Most values have been reported by the vendor but if not supplied have been computed by the BWIP from the above equation. Calculated values are noted by a "Y" preceding the age.

- o C-14 + Range/ C-14 - Range - Where reported, these values are the +/- uncertainties (in years) in the C-14 age reported by the vendor.

- o H-3 - Tritium concentration reported in tritium units where:

$$1 \text{ Tu} = 3.23 \text{ pCi/L}$$

- o H-3 Range - Where reported, this value is the uncertainty (in tritium units) of the tritium concentrations as reported by the vendor.

4.9 <u>Radioactive Isotopes - Report 2</u> (pages 231-243)

Figure 16 is a continuation of radioactive isotope data from Report 1. The location, record number, and sample number are interpreted as described previously. Measurements below detection are noted by use of a "<".

- o Total Uranium - Uranium concentration in ug/L.

- o Uranium 234/238 - The atomic ratio of U-234 to that of U-238 (no units).

- o 234/238 Range - Where reported, this value is the uncertainty in the U-234/U-238 ratio reported by the vendor.

- o Uranium 235/238 - The atomic ratio of U-235 to that of U-238 (no units).

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
DB-01	37	CP179									
	38	81-19									
	39	81-65									
	40	82-27	0.007	0.000100		0.007300		8.30	0.20	106.00	2.00
	40	82-87									
DB-02	45	CP181									
	46	81-13									
	47	81-10	0.042	0.000120	0.000007	0.007210	0.000070				
DB-04	49	CP75									
DB-05	52	CP76									
DB-07	58	CP183									
	59	83-413									
DB-09	62	CP78									
	65	CP177									
	66	83-472									
DB-10	68	CP185									
DB-12	81	81-25	0.004	0.000088	0.000007	0.007100	0.000200				
DB-13	86	CP91									
	87	CP92									
	91	80-159									
	92	83-404									
DB-14	93	CP93									
	95	CP99									
	99	CP103									
	101	81-139									
	101	81-162									
DB-15	102	79-17	5.624	0.000072	0.000006						
	102	79-22									
	103	79-20									
	103	79-35	0.024	0.000103	0.000013						
	104	79-27	0.041	0.000061	0.000089						
	104	79-33	0.052	0.000079	0.000018						
	105	79-15	0.083	0.000084	0.000047						
	105	79-38									
	106	79-39	0.581	0.000084	0.000007						
	106	79-8	0.673	0.000078	0.000011						
	107	79-31	0.241	0.000077	0.000008						
	107	79-9									
	109	79-51	0.226	0.000074	0.000006						
	110	79-66									

FIG 16. Radioactive Isotopes Report 2.

- o 235/238 Range - Where reported, this value is the uncertainty in the U-235/U-238 ratio reported by the vendor.
- o CL-36- CL-36 concentration in atoms/L x 10^{-7}.
- o CL-36 Range - The uncertainty in the Cl-36 concentration reported by the vendor.
- o CL-36/CL - The atomic ratio of Cl-36 to total Cl x 10^{15} (no units). The vendor who supplies the BWIP with Cl-36 analyses also determines total chloride (Cl) on the same sample. The reported value of Cl-36/Cl is provided by the vendor and is based solely on these analyses. In the future, the BWIP will update the Cl-36/Cl values using the chloride data reported in Major Inorganics Report 4.
- o CL-36/CL Range - The uncertainty in the Cl-36/Cl ratio reported by the vendor.

4.10 <u>Stable Isotopes</u> (pages 244-257)

Figure 17 presents a portion of the stable isotope report.

- o C-13(CH_4) - The $\delta^{13}C$ (in units of per mil) for methane in gas separated from the sample. Delta-^{13}C values are referenced to the Pee Dee Belemnite (PDB).
- o H-2(CH_4) - The δD (in units of per mil) for methane gas separated from the sample. Delta-D values are referenced to standard mean ocean water (SMOW).
- o C-13 - The $\delta^{13}C$ for inorganic carbon in aqueous samples (concentrated by precipitation of $BaCO_3$ from a basified aliquot). It is reported in units of per mil and referenced to PDB. The analytical uncertainty for $\delta^{13}C$ for inorganic carbon is ± 0.5 per mil.
- o H-2 - The δD for water samples. It is reported in units of per mil and referenced to SMOW. The analytical uncertainty for δD for water is ± 2.0 per mil.

9 2 1 2 4 9 4 1 0 7 9

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
299-E16-1	1	SITE-161				-142.00	-16.60	
	2	SITE-162				-142.00	-16.80	
	3	SITE-163				-143.00	-16.90	
	4	SITE-164				-140.00	-16.20	7.40
299-E26-8	5	SITE-166				-141.00	-17.30	7.40
	6	SITE-167				-142.00	-17.30	7.40
	7	SITE-168				-142.00	-17.30	0.50
299-E33-12	8	SITE-170				-147.00	-18.40	0.50
	9	SITE-171				-151.00	-18.30	
	10	SITE-172				-152.00	-18.30	6.20
699-42-40C	11	SITE-177				-156.00	-18.70	
	12	SITE-178				-156.00	-18.60	
	13	SITE-179				-156.00	-18.40	3.30
	15	SITE-176				-150.00	-18.50	2.70
699-47-50	16	SITE-205				-139.00	-17.00	
	17	SITE-181				-142.00	-16.80	-1.40
699-49-55B	18	SITE-183				-148.00	-17.90	
	19	SITE-184				-148.00	-17.80	
	20	SITE-185				-145.00	-17.60	2.80
699-50-45	21	SITE-203				-136.00	-17.00	
	22	SITE-186				-146.00	-17.00	0.80
699-50-48	23	SITE-204				-149.00	-17.90	
	24	SITE-187				-144.00	-16.80	-1.20
699-51-46	25	SITE-201				-139.00	-18.60	
	26	SITE-188				-144.00	-16.50	1.50
699-52-46A	27	SITE-202				-137.00	-17.00	
	28	SITE-189				-146.00	-16.90	0.50
699-52-48	29	SITE-199				-145.00	-16.90	
	30	SITE-190				-149.00	-17.80	-0.70
699-53-50	31	SITE-200				-141.00	-16.40	
	32	SITE-191				-147.00	-17.30	-0.10
699-54-57	33	SITE-192				149.00	-17.80	-0.10
699-56-53	34	SITE-196				-148.00	-17.60	
	35	SITE-197				-148.00	-17.20	3.60
DB-01	36	CP73					-17.00	
	37	CP179				-144.00	-17.90	

FIGURE 17. Stable Isotopes Report.

- o O-18 - The $\delta^{18}O$ for water samples. It is reported in units of per mil and referenced to SMOW. The analytical uncertainty for $\delta^{18}O$ for water is ± 0.2 per mil.

- o S-34 - The $\delta^{34}S$ for sulfate-sulfur in aqueous samples (concentrated by precipitation of $BaSO_4$). It is reported in units of per mil and referenced to the Canyon Diablo troilite. The analytical uncertainty for $\delta^{34}S$ for sulfate sulfur is ± 0.5 per mil.

5.0 Evaluation of Data Quality

There are three techniques used by the BWIP for assessing the quality of hydrochemical data from the Hanford Site. These are:

- o Verification of data transferred into the data base.
- o Evaluation of the chemical analyses.
- o Evaluation of sample representativeness.

For the purpose of this document the term "verification" refers to all of those techniques by which the accurate recording and transfer (electronically or by hand) of data is confirmed. "Validation" refers to those techniques by which the ability to represent the chemical composition of water from a specific site or stratigraphic zone by a collected sample can be assessed.

5.1 Data Traceability and Verification:

All data presented in the Site Hydrochemical Data Base has been evaluated with respect to its traceability to original sources. Futhermore, the accuracy of data transfer (verification) has been addressed. A discussion of these topics follows.

5.1.1 Traceability. All data collected by the BWIP water chemistry laboratory and subcontractors to the BWIP are traceable through sample numbers to the appropriate controlled notebooks, numbered internal letters and signed data sheets (provided by the vendors). Data obtained by the Analytical Laboratories of Rockwell are not traceable to laboratory notebooks and apparently laboratory-controlled records pertaining to them are not available.

Data sheets supplied by Analytical Laboratories to the BWIP are available for many samples. Sample analyses provided by Analytical Laboratories prior to approximately 1979 were entered into a data base called DATRUD. Some of these analyses apparently are not traceable to data sheets provided by the laboratory. Data from documented non-BWIP sources are traceable to the specific documents referenced.

The confirmation of traceability for sample analyses presented in the hydrochemical data base is an ongoing process. Future updates of this data package will address this concern in more detail.

5.1.2 Verification. All data reported in the Site Hydrochemical Data Base have been entered and verified by a clerk. In addition, data from the BWIP solution chemistry laboratory has been checked for correctness by laboratory personnel. Furthermore, special verification checks have been made by a clerk on an ad hoc basis.

Information relative to the sampling event has been supplied by personnel of the Drilling and Testing Group of the Site Department and verified by a clerk with the following specific exceptions. The sampling method information currently is under review and likely contains some errors (i.e., wrong method reported for sampling event). Furthermore, attempts are being made to provide missing packer, date, and in situ temperature information where possible. These changes will be incorporated in updates to this data package.

5.2 Evaluation of the Chemical Analyses

There are a variety of test strategies that can be applied to the hydrochemical analyses to check them for internal consistency. These include the following:

- Examination of the charge balance for each sample
- Examination of total cations vs. specific conductance
- Examination of total anions vs. specific conductance
- Comparison of duplicate analyses
- Analysis of blind samples
- Participation in interlaboratory analysis programs

9 2 1 2 4 9 4 1 0 8 2

5.2.1 Charge Balance: The charge balance, as defined in section 4.3 is a measure of how closely the analyzed water sample achieves electrical neutrality. Because it must be neutral, any deviation is a reflection of uncertainties in major ionic species of the analyses and, possibly, may indicate that one or more species of importance either is in error or was not determined. Canceling errors and large analytical errors for trace elements will not be detected by this type of analysis.

Figure 18 is a presentation of charge balance results, in histogram form, for all samples from the data base with appropriate analytical information. Of the approximately 500 analyses presented in Figure 18 over 60 percent are within ± 2 percent of a perfect charge balance and approximately 85 percent are within ± 5 percent of neutrality. Many sources of information on the analytical aspects of water quality address the question of charge balance and suggest appropriate limits of acceptability for analyses (Skougstad et al., Freeze and Cherry, 1979; APHA, 1978; ASTM, 1980; Anderson, 1975; Hem, 1970). Most of these discussions recognize the need for a sliding scale with more restrictive criteria for samples with large concentrations of dissolved ionic species. However, the specific criteria chosen differ among the sources.

The BWIP tentatively has adopted a maximum allowable deviation of ± 5 percent as a criterion to screen all analyses encountered at the Hanford Site. This standard is consistent with that cited in Freeze and Cherry (1979) and acknowledges the way in which the BWIP uses charge balance as only one of many indicators of sample quality.
Table 1 identifies those samples which exceed this criterion. In addition, Table 1 reports the results of other data quality evaluations as discussed below.

5.2.2 Total Cations and Total Anions vs. Specific Conductance: While the observed charge balance deviation for a sample may be small, a chemical analysis may be seriously in error due to contamination occurring in the field or laboratory. In addition, for those samples with poor charge balances, it may not be obvious what component(s) is in error. In both cases, an analysis of total cations and total anions relative to specific conductance can be helpful discriminators.

9 2 1 2 4 9 4 1 0 8 3

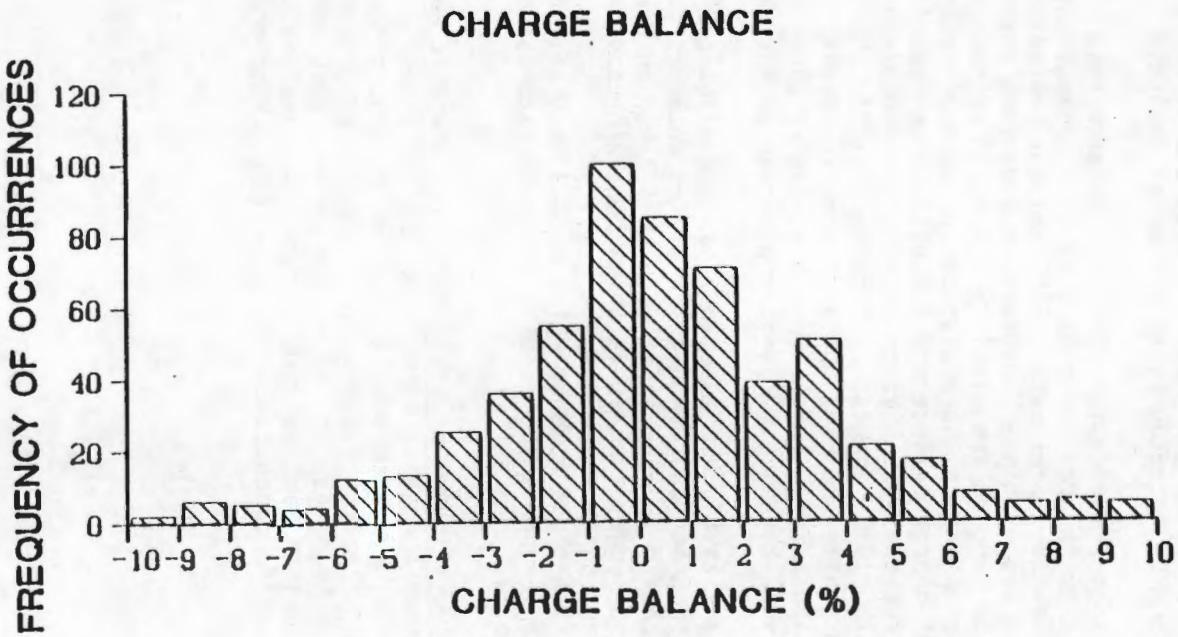

FIGURE 18. Histogram of Charge Balance Data for Hydrochemical Samples from Springs, Surface Waters, and Groundwaters on the Hanford Site. Twenty-Four Analyses Lie Outside the Limits of the Figure.

TABLE 1. Summary Listing of Potentially Anomalous Analyses for Hydrochemical Samples.

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
299-E16-1	SITE-161	SITE-161	X										
	SITE-162	SITE-162	X										
299-E26-8	SITE-167	SITE-167											
	SITE-168	SITE-168	X										
299-E33-12	SITE-170	SITE-170	X										
	SITE-171	SITE-171	X										
	SITE-172	SITE-172	X										
699-42-40C	SITE-177	SITE-177	X										
	SITE-178	SITE-178	X										
	SITE-180	SITE-180											
	SITE-176	SITE-176	X										
699-47-50	SITE-205	SITE-205											
	SITE-181	SITE-181											
699-49-55B	SITE-183	SITE-183											
	SITE-184	SITE-184	X										
	SITE-185	SITE-185	X										
699-50-45	SITE-186	SITE-186	X	CA									
699-50-48	SITE-204	SITE-204											
	SITE-187	SITE-187	X	X									
699-51-46	SITE-188	SITE-188	X										
699-52-46A	SITE-189	SITE-189	X										
699-52-48	SITE-190	SITE-190	X										
699-54-57	SITE-192	SITE-192	X										
699-56-53	SITE-196	SITE-196	X										
	SITE-197	SITE-197	X										

Legend for Table 1:

X - Identifies specific sample analyses for which results of validity check appear to be anomalous.

CA - Identifies a specific chemical component in the analysis of a sample that appears to be anomalous based on results of the "Total Cations or Total Anions vs. Specific Conductivity" validity tests.

? - Identifies sample analyses that the "Total Cations or Total Anions vs. Specific Conductivity" validity tests suggest are anomalous but for which uncertainties exist.

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS

NA	K	CA	MG	SI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
		X						X	X			SITE-161
		X										SITE-162
							X					SITE-167
												SITE-168
									X			SITE-170
									X			SITE-171
									X			SITE-172
							X		X			SITE-177
									X			SITE-178
		X										SITE-180
									X			SITE-174
									X			SITE-205
				X					X			SITE-181
					X							SITE-183
												SITE-184
												SITE-185
		X										SITE-186
									X			SITE-204
					X		X					SITE-187
		X										SITE-188
												SITE-189
		X										SITE-190
												SITE-192
												SITE-194
												SITE-197

TABLE 1 (CONT)

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
DB-02	81-13	81-13											
DB-04	CP37	CP37											
DB-05	CP112	CP112	X										
	CP113	CP113											
DB-09	79-28	CP115											
DB-14	CP119	CP119											
	81-162	81-139						X					
	81-162	81-162						X					
DB-15	79-17	79-17	X				X						
	79-17	79-22											
	79-17	79-4	X				X						
	79-35	79-35											
	79-33	79-33											
	79-15	79-15											
	79-39	79-39											
	79-51	79-51									X	X	X
	79-51	79-61									X	X	X
	79-85	79-74	X										
	79-85	79-85	X										
	79-80	79-80	X					X					
	79-80	79-99	X					X					
	80-35	80-35									X		
	80-35	80-41	X								X		
DC-01	SITE-230	SITE-230											
	SITE-231	SITE-231											
	SITE-235	SITE-235											
	SITE-237	SITE-237											
	SITE-238	SITE-238											
	SITE-242	SITE-242											
DC-02A	80-4	80-25	X				X	X	X	X			
	80-4	80-4	X				X	X	X	X			
	SITE-213	SITE-213				?							
DC-03	80-27	80-27	X						X			X	X
	80-27	80-81							X			X	X
DC-05	79-30	79-30	X		CL	?							
	79-30	79-32	X		CL	?							
DC-06	SITE-214	SITE-214											

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS

NA	K	CA	MG	BI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
									X			81-13
				X								CP37
					X							CP112
					X							CP113
							X					CP115
					X							CP119
												81-139
										X		81-142
									X		X	79-17
									X			79-22
												79-4
											X	79-35
											X	79-33
											X	79-15
											X	79-39
												79-51
												79-61
											X	79-74
											X	79-85
												79-80
												79-99
												80-35
												80-41
									X			SITE-230
									X			SITE-231
									X			SITE-235
									X			SITE-237
									X			SITE-238
									X			SITE-242
												80-25
												80-4
									X			SITE-213
												80-27
												80-81
												79-30
												79-32
								X				SITE-214

TABLE I (CONT)

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
DC-06	80-238	80-201	X										
	80-191	80-186				X							
	80-191	80-191				X							
	80-58	80-13	X										
	80-58	80-58	X										
	79-59	79-59					X						
	79-59	79-97					X						
	80-118	80-118									X	X	
	80-118	80-133			X						X	X	
	80-15	80-15	X								X	X	
	80-15	80-70	X		CL						X	X	
	79-57	79-57		X									
	79-57	79-58		X									
DC-07	82-23	82-23											
	82-10	82-10											
	80-39	80-39											
	80-39	80-98											
	80-19	80-11											
	80-19	80-19											
	80-103	80-103						X	X				
	80-103	80-163	X					X	X				
	80-188	80-178						X					
	80-188	80-188						X					
	80-196	80-177				X					X	X	X
	80-196	80-196				X					X	X	X
DC-12	80-32	80-68	X	NA									
	80-101	80-101											
	80-101	80-169											
	80-174	80-174											
	80-209	80-209									X	X	
	80-209	80-242									X	X	
	80-234	80-208											X
	80-234	80-234											X
DC-14	80-3	80-3							X				
	80-3	80-34							X				
	80-99	80-55									X		
	80-99	80-99									X		
	80-89	80-36									X		
	80-89	80-89									X		
	80-189	80-127						X					
	80-189	80-189						X					
	80-117	80-117	X										
	80-117	80-151	X										
	80-213	80-213	X										

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS

NA	K	CA	MG	SI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
												80-201
												80-186
												80-191
												80-13
												80-58
												79-59
												79-97
												80-118
												80-133
					X							80-15
					X							80-70
												79-57
												79-58
									X	X		82-23
									X	X		82-10
X					X	X	X	X				80-39
X					X	X	X	X				80-98
X					X	X	X	X				80-11
X					X	X	X	X				80-19
									X			80-103
												80-163
		X		X				X				80-178
		X		X				X				80-188
		X		X				X				80-177
		X		X				X				80-196
												80-68
				X								80-101
				X								80-169
				X	X							80-174
												80-209
												80-242
												80-208
									X			80-234
												80-3
												80-34
												80-55
												80-99
												80-36
												80-89
												80-127
												80-189
												80-117
												80-151
												80-213

TABLE I (CONT)

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
DC-14	80-213	80-236	X										
	81-20	81-20	X										
	81-30	81-18											
	81-30	81-30											
	81-21	81-21											
	81-21	81-29											
	81-99	81-91											
	81-99	81-99											
	81-138	81-138											
	83-150	83-150											
	83-261	83-261											
DC-15	80-57	80-57									X		
	80-57	80-65									X		
	80-135	80-135				X		X					
	80-135	80-149						X					
	80-120	80-139											
	80-193	80-114						X					
	80-193	80-193	X					X					
	81-41	81-24	X										
	81-2	81-2	X										
	81-2	81-36	X										
	81-33	81-32	X										
	81-33	81-37											
	81-64	81-64											
	82-94	82-94											
DC-16A	81-109	81-109					X		X				
	81-109	81-167					X		X				
	82-19	82-198											
	82-188	82-140											
	82-188	82-188A											
	82-124	82-135											
	82-124	82-139											
	82-202	82-202											
	82-202	82-214A											
	82-202	82-279A											
	82-202	82-279B											
	82-430	82-430											
	83-29	83-20											
	83-29	83-29											
DC-19C	84-53	84-53											
ENYEART	84-166	84-166											
FORD	SITE-219	SITE-219	X										

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS

NA	K	CA	MG	SI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
												80-236
												81-20
									X			81-18
											X	81-30
X	X			X	X	X	X	X				81-21
X	X			X	X	X	X	X				81-29
X					X	X	X					81-91
X					X	X	X					81-99
									X			81-138
											X	83-150
											X	83-261
												80-57
												80-65
												80-135
												80-149
									X			80-139
												80-114
												80-193
												81-24
												81-2
												81-36
												81-32
									X			81-37
										X		81-64
										X		82-94
										X		81-109
												81-147
											X	82-198
											X	82-140
											X	82-188A
											X	82-135
											X	82-139
										X		82-202
											X	82-214A
											X	82-279A
											X	82-279B
										X		82-430
											X	83-20
										X		83-29
											X	84-53
											X	84-166
			X									SITE-219

TABLE I (CONT)

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
MCGEE	SITE-225	SITE-225											
	80-64	80-64						X					
	80-64	80-88						X					
	81-54	81-54								X			
	81-54	81-56								X			
	83-513	83-513											
RRL-02	82-170	82-163									X		
	82-170	82-170	X								X		
	82-401	82-401											
	82-401	82-414											
	82-309	82-309											
	82-309	82-351											
S11-E12A	80-180	80-138											
	80-180	80-180											
BENNETT SPRING	79-13	79-13	X										
BENSON SPRING	SITE-217	SITE-217	X										
BUTLER SPRING	79-1	79-1									X		
	79-1	79-50									X		
JUNIPER SPRING	SITE-215	SITE-215	X										
	79-2	79-2								X			
	79-2	79-43								X			
	81-115	81-115											
	81-115	81-161	X										
	83-372	83-305							X				
	83-372	83-372							X				
LOWER SNIVELY SPRING	79-34	79-19	X										
RAILROAD SPRING	79-76	79-76	X				X		X				
	79-76	79-81					X		X				
RATTLESNAKE SPRING	SITE-216	SITE-216	X										
	79-88	79-87							X				
	79-88	79-88							X				
SNIVELY SPRING	79-49	79-37											X
	79-49	79-49											X
SULPHUR SPRINGS	79-29	79-29	X										
	79-29	79-36	X										

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS												
NA	K	CA	MG	SI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
X		X		X								SITE-225
												80-44
												80-88
												81-54
												81-56
									X			83-313
												82-163
									X	X		82-170
										X		82-401
											X	82-414
										X		82-309
										X		82-351
					X	X						80-138
					X	X						80-180
					X							79-13
												SITE-217
												79-1
												79-50
			X									SITE-215
												79-2
												79-43
							X					81-115
							X					81-161
												83-305
												83-372
												79-19
												79-74
												79-81
X		X	X					X				SITE-216
												79-87
												79-88
												79-37
												79-49
							X					79-29
							X					79-36

TABLE I (CONT)

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
UNNAMED SPRING #02	79-75	79-75	X										
UNNAMED SPRING #16	79-73	79-73											X
	79-73	79-82											X
UNNAMED SPRING #26	79-98	79-54						X					
	79-98	79-98						X					
UNNAMED SPRING #29	79-16	79-16									X		X
	79-16	79-24									X		X
199-D8-3	SITE-72	SITE-72	X										
199-H4-3	SITE-81	SITE-81		?	?	?							
199-N-15	SITE-42	SITE-42	X										
299-E26-8	SITE-165	SITE-165	X										
299-E33-12	SITE-169	SITE-169	X		X								
699-14-38	SITE-86	SITE-86	X										
699-17-5	SITE-18	SITE-18											
	SITE-151	SITE-151											
699-27-4	SITE-101	SITE-101	X										
699-27-8	SITE-50	SITE-50	X										
	SITE-76	SITE-76	X										
	SITE-87	SITE-87	X										
699-31-31	SITE-69	SITE-69	X										
	SITE-102	SITE-102	X										
699-32-22	SITE-51	SITE-51											
	SITE-65	SITE-65	X										
	SITE-89	SITE-89	X										
699-32-70	SITE-70	SITE-70	X										
699-33-42	SITE-12	SITE-12	X										
	SITE-67	SITE-67	X										
699-35-66	SITE-77	SITE-77	X										
699-35-9	SITE-31	SITE-31											

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS												
NA	K	CA	MG	SI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
												79-75
												79-73
												79-82
												79-54
												79-98
												79-16
												79-24
												SITE-72
												SITE-81
												SITE-42
												SITE-165
												SITE-169
												SITE-86
				X								SITE-18
				X								SITE-151
												SITE-101
												SITE-50
												SITE-76
												SITE-87
												SITE-69
												SITE-102
					X							SITE-51
												SITE-65
												SITE-89
												SITE-70
					X		X					SITE-12
												SITE-67
												SITE-77
X												SITE-31

TABLE I (CONT)

LOCATION	REFERENCE NUMBER	SAMPLE NUMBER	CHARGE BALANCE	TOTAL CATIONS/TOTAL ANIONS VS. SP. COND			DUPLICATE COMPARISONS						
				CATIONS	ANIONS	SP. COND	NA	K	CA	MG	CL	F	SO4
699-35-9	SITE-104	SITE-104											
699-37-43	SITE-34	SITE-34											
	SITE-173	SITE-173				X							
699-37-82A	SITE-105	SITE-105	X										
699-40-1	SITE-10	SITE-10											
	SITE-106	SITE-106											
699-41-23	SITE-15	SITE-15											
	SITE-113	SITE-113											
699-42-12	SITE-155	SITE-155	X										
699-42-2	SITE-154	SITE-154	X										
699-43-88	SITE-123	SITE-123	X										
699-45-42	SITE-57	SITE-57	X										
699-46-5	SITE-156	SITE-156	X										
699-48-71	SITE-59	SITE-59	X										
699-49-55	SITE-126	SITE-126											
699-50-42	SITE-14	SITE-14											
	SITE-115	SITE-115											
699-55-50C	SITE-128	SITE-128	X										
	SITE-193	SITE-193	X										
699-55-76	SITE-129	SITE-129											
699-59-58	SITE-107	SITE-107	X										
699-63-90	SITE-133	SITE-133	X										
699-72-73	SITE-109	SITE-109	X										
699-86-E4D	SITE-11	SITE-11	X										
699-88-19	SITE-84	SITE-84				X							

TABLE I (CONT)

SAME ZONE/SITE COMPARISONS

NA	K	CA	MG	SI	CL	F	SO4	FIELD ALK	TRITIUM CONTAM.	TOC CONTAM.	DISS. GAS CONTAM.	SAMPLE NUMBER
X												SITE-104
		X	X		X		X	X				SITE-34
		X	X		X		X	X				SITE-173
												SITE-105
X												SITE-10
X												SITE-106
					X							SITE-15
					X							SITE-113
												SITE-155
												SITE-154
												SITE-123
												SITE-57
												SITE-156
												SITE-59
			X	X				X				SITE-126
		X	X	X				X				SITE-14
		X	X	X				X				SITE-115
												SITE-128
		X										SITE-193
							X					SITE-129
												SITE-107
					X							SITE-133
												SITE-109
												SITE-11
												SITE-84

APHA (1978) recognizes that a close functional relationship exists between specific conductance and total dissolved solids. Summers et al. (1978) applied this technique for evaluating groundwaters from the Pasco Basin. By separating the total dissolved solids into total cations and total anions, examining the covariance of each with respect to specific conductance, and comparing these results to those samples with poor charge balance identified above, it should be possible to identify if the poor balance results from an error in the anion or cation analyses. Alternatively, badly contaminated samples with an acceptable charge balance may standout from the overall population of water samples and be identified as anomolous. Finally, poor analyses of specific conductance may be recognized by this type of evaluation.

Figure 19 presents graphs of specific conductance vs. total cations and total anions for all waters from the Hanford Site with appropriate analytical data. The central line results from linear regression of the data and the two boundary lines represent a 95 percent confidence limit uncertainty band.

Table 1 identifies those samples that lie significantly off the trends (i.e., outside of the 95 percent confidence limit uncertainty band). When coupled with charge balance information it becomes clear that for some samples the source of a poor charge balance can be identified as resulting from either inaccurate cation or anion analyses while the others are suggestive of contamination, erroneous conductivity measurement, or both. Furthermore, when the analyses are viewed within the context of their nearest neighbors in a borehole (see section 5.3.2) it is often possible to identify the specific cation or anion that is anomalous. This information is included in Table 1.

5.2.3 Comparison of Duplicate Analyses: Nearly all analyses for a specific sampling event performed by the BWIP laboratory since 1980 have been done as duplicates. Figure 20 presents histogram comparisons of these duplicates for the major cations and anions. The deviations are computed as follows:

$$\text{Deviation percent} = \left[\frac{M_1 - M_2}{M_1}\right] \times 100\%$$

where: M_1 = concentration of M in the 1st duplicate
M_2 = concentration of M in the 2nd duplicate

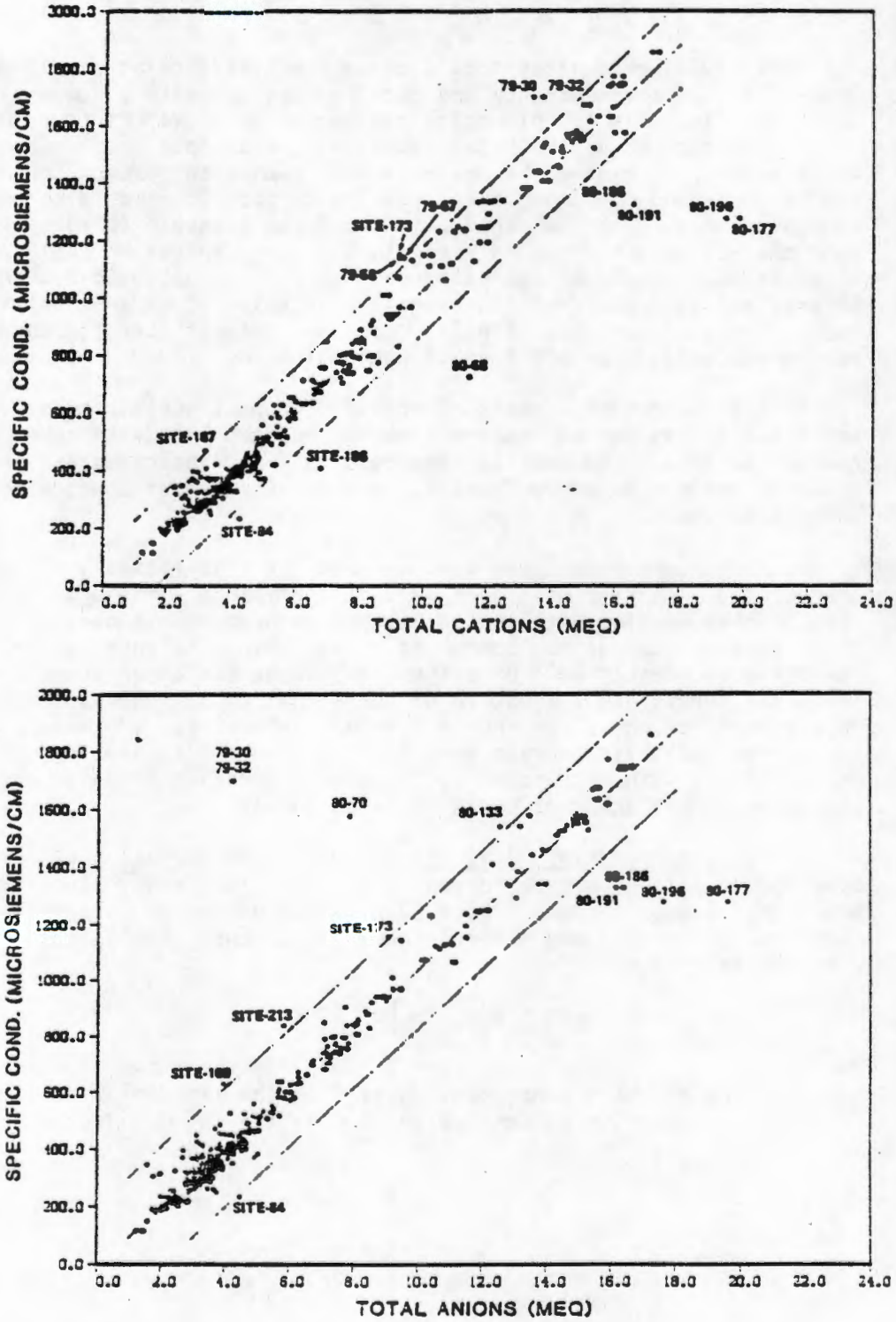

FIGURE 19. Total Cations and Total Anions vs. Specific Conductance for Hydrochemical Samples from Springs, Surface Waters, and Groundwaters on the Hanford Site. Samples 80-135 and Site-81 Lie Outside the Limits of the Figures.

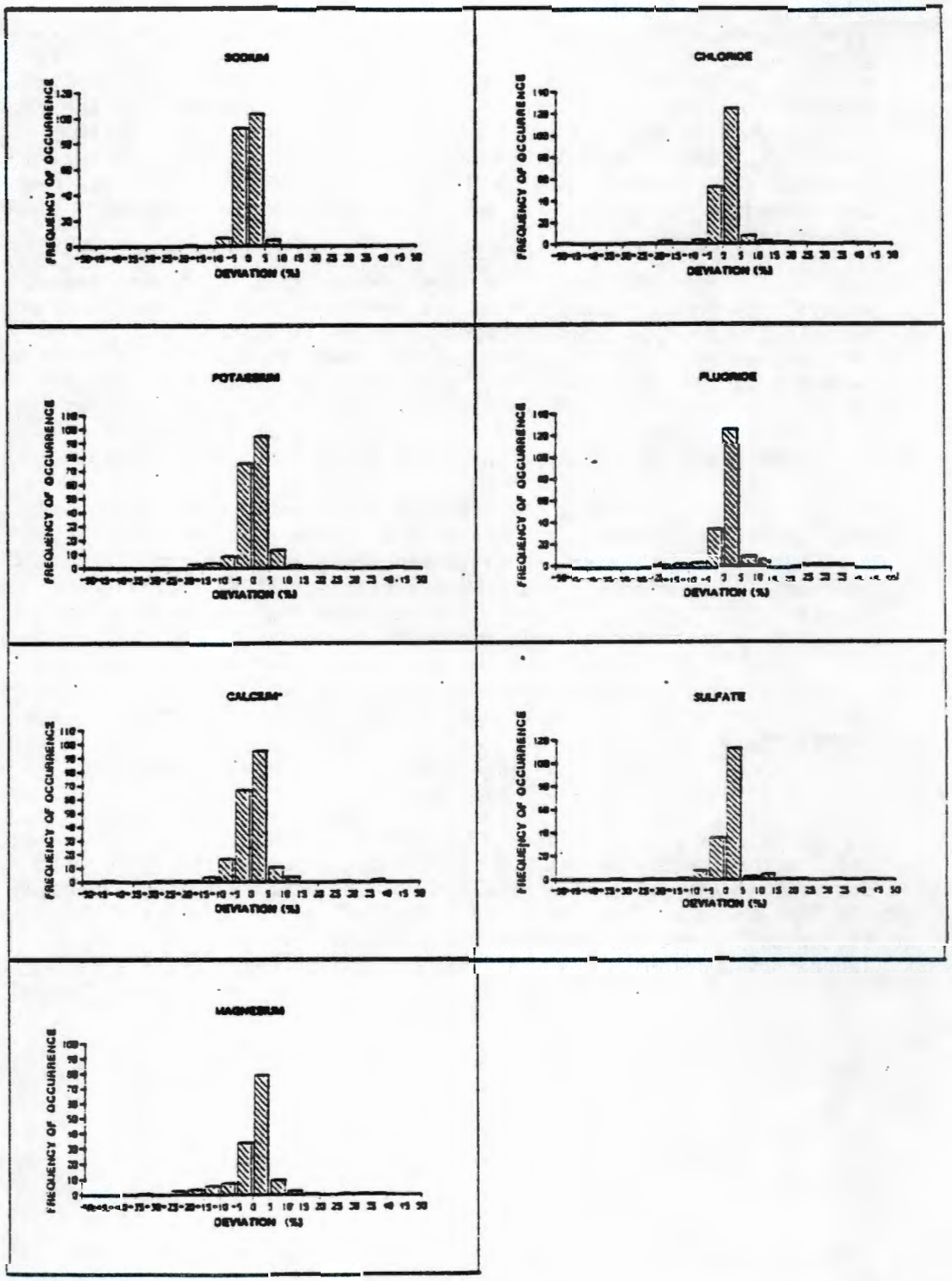

FIGURE 20. Histograms Showing Comparison of Duplicate Analyses for Major Cations and Anions in Hydrochemical Samples from Springs, Surface Waters, and Confined Aquifers for the Hanford Site. Several Analyses Lie Outside the Limits of the Figure.

The analytical uncertainties of instruments used in an analysis are closely related to the observed deviations for duplicates. West et al. (1983) report that for cations (analyzed by inductively coupled plasma atomic emission spectroscopy) a relative precision of 1-3 percent is observed. For anions (analyzed by ion chromatography) the relative precision is less than 1 percent. In general, these results are based upon repetitive analysis of samples under optimum instrument and laboratory conditions. An estimate of relative precision that is more applicable to routine analytical conditions probably is on the order of 3-5 percent. For the purpose of this document a criterion of ± 5 percent is adopted.

Table 1 presents results of these comparisons for those samples with a deviation greater than ± 5 percent for the major cations and anions. Alkalinity, a major, likely source of error is omitted as it is not measured on both duplicate samples. However, errors in alkalinity may be detected in the total anion vs. specific conductance analysis described above. In recognition of the fact that analytical uncertainties increase with decreasing concentrations, the comparison of duplicate analyses described above is performed only when concentrations exceed 5 mg/L.

In addition to the major inorganic components, a comparison of duplicates for all analytical data is possible in principle. While few duplicate analyses exist for dissolved gases and stable and radioactive isotopes, trace elements could be evaluated in this manner. Future updates of this data package will extend the evaluation of duplicate analyses to these additional components.

5.2.4 Blind Samples. In general, inclusion of one or more blind samples with a batch of water samples sent to a vendor for analysis represents an appropriate check on the laboratory. While this procedure could be applied to most of the analytical needs of the BWIP it has been used only with the δD and $\delta^{18}O$ analyses.

Table 2 is a listing of the δD and $\delta^{18}O$ analyses of a blind sample sent to the vendor and analyzed on the dates noted with appropriate statistical analysis. The results are consistent with the exception of the last three analyses reported. The fact that these three analyses are isotopically heavier than the others suggests a laboratory problem. These analyses are being checked by the vendor.

9 2 1 2 4 9 4 1 1 0 2

TABLE 2. BLIND SAMPLE ANALYSES FOR δD AND $\delta^{18}O$

DATE	SAMPLE NUMBER	δD (per mil)	$\delta^{18}O$ (per mil)
12/23/81	82-59	-124	-17.4
03/23/82	82-18	-137	-17.6
05/14/82	82-82	-135	-17.5
05/28/82	82-128	-137	-17.5
06/22/82	82-171	-138	-17.2
12/30/82	83-192	-138	-18.2
02/24/83	83-186	-133	-17.7
06/15/83	83-346	-135/134	-17.7
12/28/83	84-66	-136	-16.9
04/06/84	84-155	-130	-16.7
06/26/84	84-248	-131	-16.8

9 2 1 2 4 9 4 1 1 0 3

5.2.5 Interlaboratory Analyses: The solution chemistry laboratory of the BWIP participates in the United States Geological Survey Analytical Evaluation Program for Standard Reference Water Samples (USGS-AEPSRWS). Reference water samples are analyzed by nearly one hundred laboratories nationwide. This program is a valuable aid to a laboratory in assessing the quality of its analytical capabilities. A discussion of the results for the BWIP solution chemistry laboratory is presented in West et al. (1983).

5.3 Evaluation of Sample Representativeness. Although the checks on the quality of the chemical analyses described above are important, evaluation of the representativeness for each sample is crucial before interpretations based upon the data are considered reliable. For precipitation and stream samples seasonal variability is a virtual certainty and must be addressed accordingly. Likewise, the composition of spring samples may be seasonally dependent. This problem is most easily resolved by restricting all spring sampling to the summer months when base flow conditions exist.

For groundwater samples there are special problems related to drilling and sampling that complicate attempts at obtaining representative samples. For example, most Hanford boreholes have been drilled with bentonite-based fluids frequently containing additives such as soda ash, causticized lignite and organic polymers (Halko, 1985). Estimates of the amount of fluid lost to each zone and the amount of water recovered prior to sampling are made during drilling and testing. These estimates are included in the borehole completion reports (e.g., see Diediker, 1983; and Wintczak, 1984). However, a record of fluid composition rarely is available.

While detailed reconstruction of potential contamination effects occurring in most Hanford boreholes is not possible, Graham et al. (1985) report results for a well-documented test in borehole DC-14 that illustrates the chemical effects of drilling fluid and borehole development on water chemistry. The reader is referred to this paper for detailed information.

9 2 1 2 4 9 4 1 1 0 4

A further question of sample representativeness is related to changes in the sample (resulting from chemical reactions) that occur during decompression as groundwater is brought to the surface prior to collection. For example, field collection personnel report that degassing sometimes occurs and unstable (i.e., gradually rising) pH values are observed when field measurements are made on groundwaters from the Saddle Mountains Formation.

All perspectives of the question of sample representativeness cannot be addressed in this document. However, there are a number of tests that, when applied to the analyses, may provide an estimate of the overall consistency of the hydrochemical data. These are:

- o comparison of multiple analyses from the same borehole and producing zone or spring.
- o comparison of all analyses from a single borehole as a function of depth.
- o evaluation of tritium contamination in groundwater.
- o evaluation of organic carbon contamination in groundwater.
- o evaluation of contamination of dissolved gases.

5.3.1 Analyses from Same Sampling Site: In many instances more than one sample has been taken over a period of years from the same zone of a borehole. Occasionally, these samples have been analyzed by different laboratories. Appendix B presents a comparison of all multiple sample analyses from boreholes in the Site Hydrochemical Data Base. Several significant deviations of major chemical constituents result from the intercomparisons. There are no clear guidelines for identifying anomalous analyses by this technique. For the present, elemental analyses for one sample differing by more than approximately 25 percent (arbitrarily chosen) from the mean of the analyses are highlighted unless the concentrations are below 10 mg/L. These anomalies are recorded in Table 1. While one cannot dismiss the possibility of temporal changes in groundwater chemistry, to a first appproximation it is assumed that these effects are small.

Spring sample analyses might be anticipated to be more variable than groundwater analyses due to the potential for evaporation effects and contamination of spring pools by surficial processes. Appendix B presents comparisons of multiple sampling events for springs. The internal consistency of most analyses suggests that the comparison is valid. Anomalous analyses are noted in Table 1.

The current comparison is limited to the major chemical parameters although it could be extended to all constituents (trace elements, dissolved gases and stable and radioactive isotopes). Future revisions to this data package may consider these additional components.

5.3.2 Continuity of Compositional Depth Profiles. Another test that may apply as a validation tool for borehole data is useful for those sites where a sufficient quantity of data as a function of depth exists. This test is based on the observation that compositional depth profiles for Hanford boreholes do not appear to exhibit random variation of major chemical parameters. While compositional discontinuities may exist, the overall pattern is quite regular. If true, this observation suggests that random compositional fluctuations, potentially representing erroneous analyses, can be readily identified by statistical means.

The potential value of this technique is that it encompasses the following factors associated with a sampling event:

- borehole development (i.e., drilling fluid contamination).
- sampling techniques.
- uncertainties in chemical analyses.

In addition, however, any inherent depth-related compositional variability is addressed by this analyses.

In principle, this technique can be applied to 10-15 boreholes on the Hanford Site and used to evaluate most major and trace inorganic and isotopic species. However, the magnitude of data analyses is great and has not yet been attempted systematically.

5.3.3 Tritium Contamination. Tritium (H-3) is formed in the earth's upper atmosphere, incorporated into the water molecule, precipitated and becomes associated with the groundwater system through infiltration. Because of its short half-life (12.3 years) groundwater that has been isolated from the atmosphere for greater than approximately 100 years should be free of tritium. However, Davis (1981) acknowledges that a small amount of tritium (0.1 to 1.0 Tu) can be produced in situ in groundwater due to nuclear reactions involving the decay of natural uranium and thorium.

9 2 1 2 4 9 4 1 1 0 6

During the drilling of most boreholes at Hanford, drilling fluids made up with Columbia River water has been used. The current natural tritium content of the river water is approximately 50 Tu (see analyses in the Site Hydrochemical Data Base). LaSala and Doty (1971) report that in 1969 the tritium content of the Columbia River was from 300 to 600 Tu and that the drilling fluid used in borehole ARC-DC-1 contained 418 Tu. Therefore, tritium from the Columbia River is a useful tracer for identifying borehole contamination associated with drilling.

Figure 21 is a histogram of tritium analyses for groundwaters from confined aquifers at Hanford. Based on the discussion above, many of the samples represented in the data base exhibit some tritium contamination. While a quantitative evaluation of the link between tritium content and disturbance of major chemical parameters due to drilling fluid contamination is not possible, the study by Graham and Bryce (1985) suggests that tritium concentrations of only several Tritium units may be indicative of a problem at DC-14. There are legitimate questions regarding the applicability of contamination criteria based on data from one borehole (DC-14) to others at the Hanford Site. Therefore, for this document only confined groundwater samples with greater than 5 Tu are identified as being potentially contaminated. Table 1 identifies the affected samples.

5.3.4 Organic Carbon Contamination. As in the case of tritium, the organic carbon content of Hanford groundwaters can be a measure of contamination with drilling fluid. Halko (1984) describes the organic components that frequently are included in drilling fluids and Graham et al. (1985) assess the affects of these fluids on the total organic carbon (TOC) level of recovered water in the test at DC-14. They found that, for this specific test, TOC values of approximately 5 to 10 mg/L may be indicative contamination for some major inorganic constituents.

Figure 22 is a histogram of observed TOC values for groundwaters taken from confined aquifers at Hanford. Because the organic composition of drilling fluids can be so variable no definitive criterion for TOC to identify such contamination is available. Table 1 notes those samples with TOC in excess of 10mg/L which is tentatively suggested as an indicator of contamination that may affect the major chemistry of the water samples.

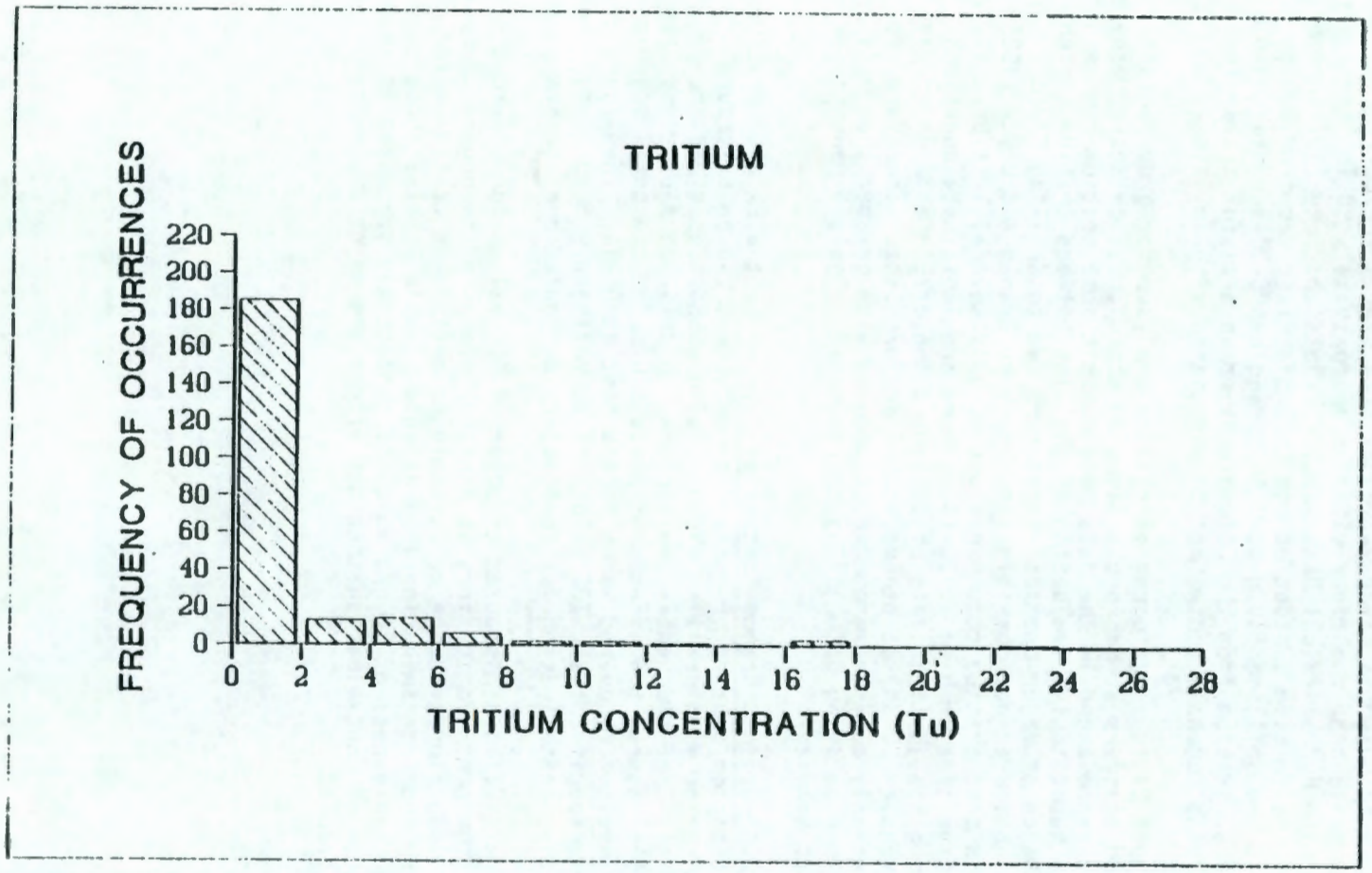

FIGURE 21. Histogram of Tritium Concentrations in Groundwaters from Confined Aquifers.

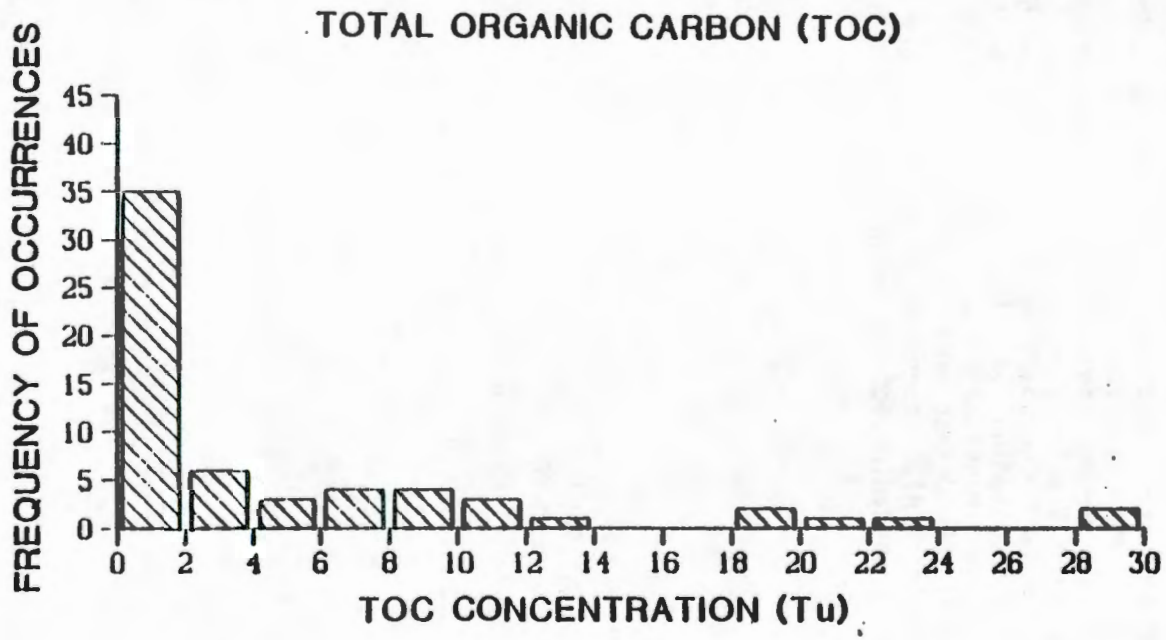

FIGURE 22. Histogram of Total Organic Carbon Concentrations in Groundwaters from Confined Aquifers.

5.3.5 Dissolved Gases. One simple test of the representativness of dissolved gas analyses is to note those samples containing significant amounts of oxygen. The great majority of gas analyses reported in the Site Hydrochemical Data Base contain very little if any oxygen. Furthermore, the discussions in DOE/RL82-3 (1982; pg. 5.1-132) suggest that this observation is compatible with the reducing conditions thought to prevail in basalt groundwaters. Jointly, these findings point to the low probability of significant dissolved oxygen associated with Hanford groundwaters. Generally it can be assumed that air contamination during sample collection is responsible for elevated oxygen levels. Using the normal composition of air it is possible to correct these analyses for contamination. Table 1 identifies these gas analyses that have apparent air contamination (i.e., > 1% oxygen) and the five samples from borehole DB-15 that were identified in Section 4.7 as being of questionable value. Also identified in Table 1 is one gas sample apparently grossly contaminated with argon.

9 2 1 2 4 9 4 1 1 1 0

6.0 Summary and Conclusions

This data package presents the Site Hydrochemical Data Base (Appendix A). A variety of verification and validation procedures have been applied to the data and these are summarized in Figure 23. The goal of these procedures is to insure that hydrochemical data quality is high and to identify those specific analyses that appear to be in error. The results of this evaluation is summarized in Table 1.

Identification of potentially anomalous samples or analyses in Table 1 must be approached with caution. The great majority of analyses in the Site Hydrochemical Data Base appear to be excellent. Many of those samples flagged in Table 1 probably are of equally high quality. The purpose of Table 1 is only to serve as a guide for data users and to alert them to potential uncertainties.

Currently, the verification and validation procedures are incomplete. For example, certain information (e.g., sampling method, in situ temperature, date) has not been fully verified. Furthermore, in future updates to this data package it will be possible to compare the total inorganic carbon (TIC) content of samples determined by a carbon analyzer to analogous information extracted from alkalinity values. Many of the validation checks can be extended to parameters beyond the major inorganics (e.g., trace elements) and this will be addressed also. Finally, it is anticipated that greater use will be made of blind samples in the future to evaluate the quality of analyses from subcontractors.

A further concern that must be considered is the fact that some types of data can be checked more thoroughly than others. For example, validation of precipitation and surface water analyses is more limited in scope than for groundwater samples. Fortunately, the BWIP is not as dependant on these data for its characterization and flow modeling studies.

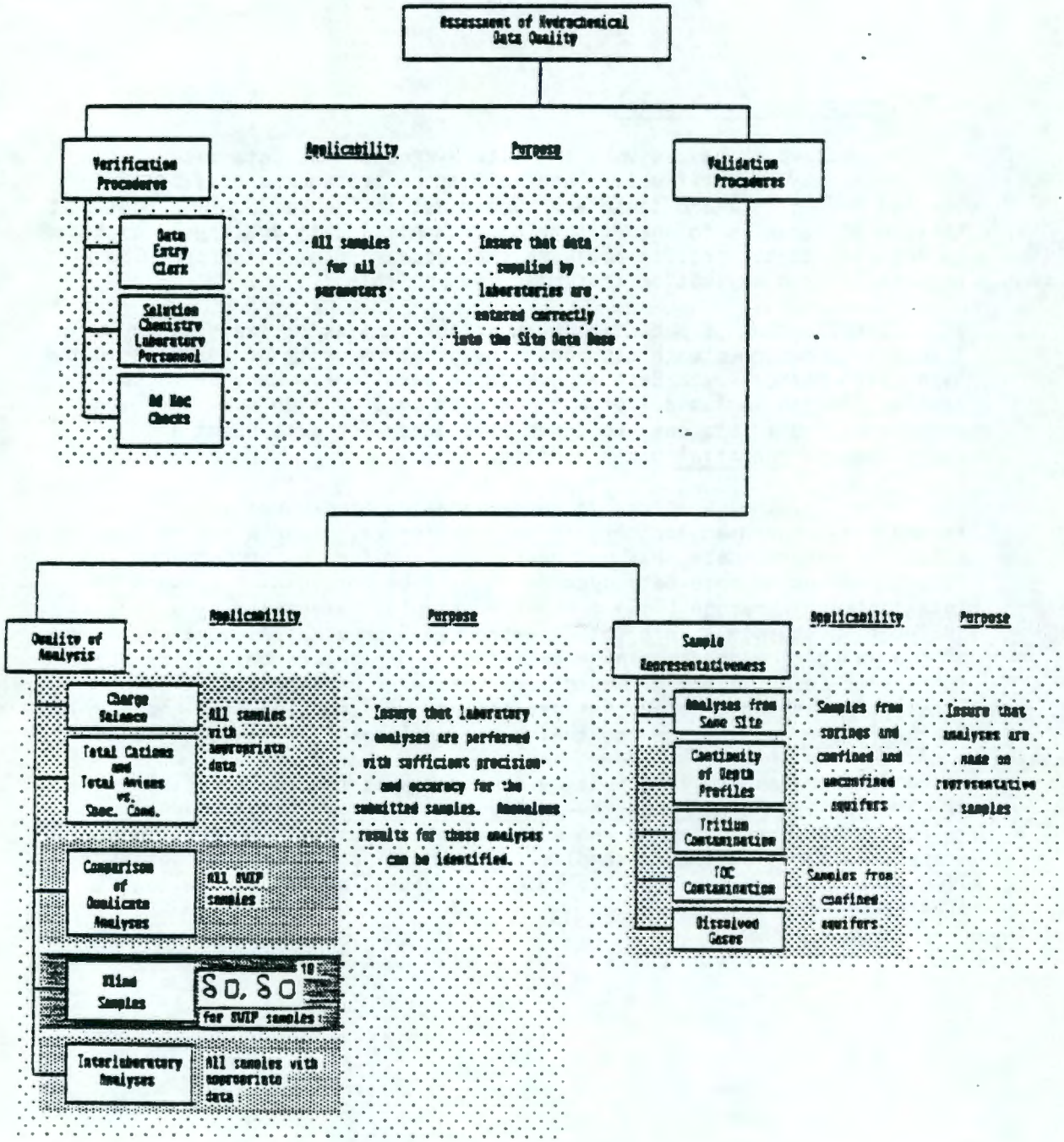

FIGURE 23. Summary Logic Diagram for Verification and Validation Procedures Applied to Hydrochemical Analyses.

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APENDIX A

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BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
299-E16-1	1	SITE-161	ELEPHANT MOUNTAIN	468	510	PUMP	5/15/82	2
	2	SITE-162	ELEPHANT MOUNTAIN	468	510	PUMP	7/13/82	2
	3	SITE-163	ELEPHANT MOUNTAIN	468	510	PUMP	7/13/82	2
	4	SITE-164	ELEPHANT MOUNTAIN	468	510	PUMP	7/14/82	2
299-E26-8	5	SITE-166	RATTLESNAKE RIDGE	326	396	PUMP	5/18/82	2
	6	SITE-167	RATTLESNAKE RIDGE	326	396	PUMP	5/19/82	2
	7	SITE-168	RATTLESNAKE RIDGE	326	396	PUMP	5/19/82	2
299-E33-12	8	SITE-170	RATTLESNAKE RIDGE	305	380	PUMP	5/21/82	2
	9	SITE-171	RATTLESNAKE RIDGE	305	380	PUMP	5/22/82	2
	10	SITE-172	RATTLESNAKE RIDGE	305	380	PUMP	5/22/82	2
699-42-40C	11	SITE-177	RATTLESNAKE RIDGE	306	390	PUMP	5/20/82	2
	12	SITE-178	RATTLESNAKE RIDGE	306	390	PUMP	5/21/82	2
	13	SITE-179	RATTLESNAKE RIDGE	306	390	PUMP	5/21/82	2
	14	SITE-180	RATTLESNAKE RIDGE	306	390	PUMP	11/19/82	2
	15	SITE-176	ELEPHANT MOUNTAIN	9,999	9,999	PUMP	4/16/82	2
699-47-50	16	SITE-205	RATTLESNAKE RIDGE	260	295	PUMP	6/25/80	3
	17	SITE-181	RATTLESNAKE RIDGE	9,999	9,999	PUMP	7/15/82	2
699-49-55B	18	SITE-183	RATTLESNAKE RIDGE	170	226	PUMP	5/27/82	2
	19	SITE-184	RATTLESNAKE RIDGE	170	226	PUMP	5/27/82	2
	20	SITE-185	RATTLESNAKE RIDGE	170	226	PUMP	5/28/82	2
699-50-45	21	SITE-203	RATTLESNAKE RIDGE	133	178	PUMP	5/29/80	3
	22	SITE-186	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 6/82	2
699-50-48	23	SITE-204	RATTLESNAKE RIDGE	213	250	PUMP	6/10/80	3
	24	SITE-187	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 7/82	2
699-51-46	25	SITE-201	RATTLESNAKE RIDGE	120	165	PUMP	5/ 6/80	3
	26	SITE-188	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 4/82	2
699-52-46A	27	SITE-202	RATTLESNAKE RIDGE	165	225	PUMP	5/13/80	3
	28	SITE-189	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/ 7/82	2
699-52-48	29	SITE-199	RATTLESNAKE RIDGE	145	195	PUMP	4/ 8/80	3
	30	SITE-190	RATTLESNAKE RIDGE	9,999	9,999	PUMP	8/10/82	2
699-53-50	31	SITE-200	RATTLESNAKE RIDGE	146	193	PUMP	4/17/80	3
	32	SITE-191	RATTLESNAKE RIDGE	9,999	9,999	PUMP	7/14/82	2
699-54-57	33	SITE-192	RATTLESNAKE RIDGE	236	321	PUMP	5/17/82	2
699-56-53	34	SITE-196	RATTLESNAKE RIDGE	190	270	PUMP	6/ 3/82	2
	35	SITE-197	RATTLESNAKE RIDGE	190	270	PUMP	6/ 3/82	2
DB-01	36	CP73	MABTON	976	990	PUMP	7/20/78	1

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
DB-01	37	CP179	MABTON	976	990	AIRLIFT IO	8/20/80	1
	38	81-19	MABTON	976	990	AIRLIFT IO	2/ 2/81	1
	39	81-65	PRIEST RAPIDS	1.080	1.139	AIRLIFT IO	5/ 1/81	1
	40	82-27	PRIEST RAPIDS	1.080	1.139	PUMP	11/10/81	1
	41	85-32	PRIEST RAPIDS	1.080	1.139	SIPHONED	10/27/84	1
DB-02	42	CP51	MABTON	846	924	AIRLIFT	7/20/77	1
	43	CP83	MABTON	846	924	AIRLIFT	7/25/78	1
	44	79-65	MABTON	846	924	AIRLIFT IO	7/13/79	1
	45	CP181	MABTON	846	924	AIRLIFT IO	9/12/80	1
	46	81-13	PRIEST RAPIDS	1.028	1.190	AIRLIFT IO	12/ 8/80	1
	47	81-10	ROZA	1.166	1.190	AIRLIFT IO	12/23/80	1
DB-04	48	CP37	MABTON	1.360	1.403	AIRLIFT	1/ 6/77	1
	49	CP78	MABTON	1.360	1.403	AIRLIFT	7/25/78	1
	50	79-77	MABTON	1.360	1.403	AIRLIFT IO	6/ 7/79	1
	51	CP117	MABTON	1.360	1.403	AIRLIFT IO	7/12/79	1
DB-05	52	CP76	MABTON	814	908	AIRLIFT	7/18/78	1
	53	CP112	MABTON	814	908	AIRLIFT IO	6/ 4/79	1
	54	CP113	MABTON	814	908	AIRLIFT IO	7/10/79	1
DB-07	55	CP33	MABTON	597	812	AIRLIFT	1/ 7/77	1
	56	CP86	MABTON	597	812	AIRLIFT	7/24/78	1
	57	79-89	MABTON	597	812	AIRLIFT IO	7/13/79	1
	58	CP183	MABTON	597	812	AIRLIFT IO	9/16/80	1
	59	83-413	MABTON	597	812	AIRLIFT	6/29/83	1
DB-09	60	CP54	MABTON	461	589	AIRLIFT	12/20/77	1
	61	CP59	MABTON	461	589	AIRLIFT	4/13/78	1
	62	CP78	MABTON	461	589	AIRLIFT	7/17/78	1
	63	CP114	MABTON	461	589	AIRLIFT IO	6/ 6/79	1
	64	79-28	MABTON	461	589	AIRLIFT IO	7/12/79	1
	65	CP177	MABTON	461	589	AIRLIFT IO	8/14/80	1
	66	83-472	MABTON	461	589	PUMP	7/15/83	1
DB-10	67	CP79	MABTON	794	893	PUMP	7/14/78	1
	68	CP185	MABTON	794	893	PUMP	9/17/80	1
DB-11	69	85-4	PRIEST RAPIDS	709	1.020	FLOWING	10/10/84	1
	70	85-15	PRIEST RAPIDS	709	1.020	FLOWING	10/15/84	1
	71	85-18	PRIEST RAPIDS	1.020	1.210	FLOWING	10/15/84	1
	72	CP53	PRIEST RAPIDS	1.037	1.046	FLOWING	12/27/77	1
	73	CP61	PRIEST RAPIDS	1.037	1.046	FLOWING	4/13/78	1
	74	CP80	PRIEST RAPIDS	1.037	1.046	FLOWING	7/14/78	1
	75	81-57	PRIEST RAPIDS	1.037	1.046	FLOWING	1/15/81	1
DB-12	76	63-95	SELAH	171	189	SWAB	4/20/78	1
	77	CP65	MABTON	376	513	SWAB	5/10/78	1
	78	CP66	MABTON	376	513	AIRLIFT	5/11/78	1

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
DB-12	79	CP67	PRIEST RAPIDS	524	653	AIRLIFT	5/23/78	1
	80	CP68	PRIEST RAPIDS	524	653	SWAB	5/30/78	1
	81	81-25	PRIEST RAPIDS	524	692	AIRLIFT IQ	10/31/80	1
DB-13	82	CP69	ELEPHANT MOUNTAIN	378	381	AIRLIFT	6/13/78	1
	83	CP70	ELEPHANT MOUNTAIN	378	381	SWAB	6/14/78	1
	84	CP71	RATTLESNAKE RIDGE	463	536	SWAB	6/23/78	1
	85	CP72	RATTLESNAKE RIDGE	463	536	SWAB	6/24/78	1
	86	CP91	SELAH	720	739	AIRLIFT	7/19/78	1
	87	CP92	COLD CREEK	867	942	AIRLIFT	8/ 5/78	1
	88	CP96	MABTON	1,195	1,292	SWAB	/ /	1
	89	CP95	MABTON	1,195	1,292	AIRLIFT	9/21/78	1
	90	CP97	MABTON	1,195	1,292	PUMP	4/ 6/79	1
	91	80-159	MABTON	1,195	1,292		4/18/80	1
	92	83-404	MABTON	1,195	1,292	PUMP	7/ 7/83	1
DB-14	93	CP93	RATTLESNAKE RIDGE	210	288	PUMP	9/10/78	1
	94	CP98	SELAH	449	492	AIRLIFT	10/12/78	1
	95	CP99	SELAH	449	492	SWAB	10/16/78	1
	96	CP100	COLD CREEK	616	664	AIRLIFT	10/30/78	1
	97	CP101	COLD CREEK	616	664	PUMP	11/ 1/78	1
	98	CP102	MABTON	917	1,034	AIRLIFT	12/28/78	1
	99	CP103	MABTON	917	1,034	PUMP	1/ 4/79	1
	100	CP119	MABTON	917	1,034	AIRLIFT IQ	7/16/79	1
	101	81-162	PRIEST RAPIDS	1,181	1,218		6/25/81	1
DB-15	102	79-17	RATTLESNAKE RIDGE	150	222	PUMP	4/26/79	1
	103	79-35	SELAH	370	422	PUMP	5/10/79	1
	104	79-33	COLD CREEK	510	616	PUMP	5/24/79	1
	105	79-15	ABOTIN/UMATILLA	640	682	PUMP	6/ 4/79	1
	106	79-39	UMATILLA INTRAFLOW	680	754	PUMP	6/14/79	1
	107	79-31	MABTON	680	844	PUMP	7/ 3/79	1
	108	79-25	MABTON	680	844		7/24/79	1
	109	79-51	PRIEST RAPIDS	858	969	PUMP	8/13/79	1
	110	79-85	PRIEST RAPIDS	909	969	SWAB	8/16/79	1
	111	79-80	PRIEST RAPIDS/ROZA	1,045	1,105	SWAB	0/27/79	1
	112	79-62	FRENCHMAN SPRINGS	1,300	1,343	PUMP	9/27/79	1
	113	79-90	FRENCHMAN SPRINGS	1,300	1,343	SWAB	9/27/79	1
	114	80-35	FRENCHMAN SPRINGS	1,353	1,373	SWAB	10/ 4/79	1
	115	80-24	FRENCHMAN SPRINGS	1,393	1,443	SWAB	10/18/79	1
	116	80-77	FRENCHMAN SPRINGS	1,450	1,530	SWAB	10/15/79	1
	117	80-1	FRENCHMAN SPRINGS	1,570	1,683	SWAB	11/ 9/79	1
DC-01	118	SITE-230	POMONA	362	416	SWAB	5/ 8/69	4
	119	SITE-226	POMONA TO UMATILLA	362	712	PUMP	5/10/69	4
	120	SITE-227	POMONA TO MABTON	362	890	PUMP	5/20/69	4
	121	SITE-228	POMONA TO U. ROZA	362	1,190	PUMP	5/26/69	4
	122	SITE-229	POMONA TO ROCKY COULEE FT	362	2,242	PUMP	6/12/69	4
	123	SITE-231	POMONA TO ESQUATZEL FT	450	530	SWAB	5/ 8/69	4
	124	SITE-232	ESQUATZEL TO COLD CREEK	540	620	SWAB	5/ 8/69	4

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
DC-01	125	SITE-233	COLD CREEK TO UMATILLA	636	726	SWAB	5/19/69	4
	126	SITE-234	UMATILLA INTRAFLOW CONTACT	720	810	SWAB	5/19/69	4
	127	SITE-235	PRIEST RAPIDS	980	1,120	SWAB	5/27/69	4
	128	SITE-236	L. PRIEST RAPIDS AND ROZA	1,090	1,280	SWAB	6/11/69	4
	129	SITE-237	L. ROZA AND FRENCHMAN SPRINGS	1,330	1,520	SWAB	6/10/69	4
	130	SITE-238	COHASSETT FB AND BELOW	2,600	2,780	SWAB	6/22/69	4
	131	SITE-239	UMTANUM FB AND BELOW	3,146	3,236	SWAB	6/20/69	4
	132	SITE-240	UMTANUM FB AND BELOW	3,166	3,196	SWAB	6/29/69	4
	133	SITE-241	GRANDE RONDE	3,206	3,246	SWAB	6/29/69	4
	134	SITE-242	GRANDE RONDE	3,320	3,451	SWAB	7/ 2/69	4
	135	SITE-243	GRANDE RONDE	4,080	4,283	SWAB	7/14/69	4
DC-02A	136	80-4	ROCKY COULEE FB TO BELOW UMTANUM	2,253	3,300		10/16/79	1
	137	SITE-213	GRANDE RONDE	3,241	3,274	SWAB	6/26/78	5
DC-03	138	80-27	UMTANUM FB	3,575	3,635	SWAB	3/10/80	1
DC-05	139	79-30	VANTAGE	9,999	9,999	PUMP	7/19/79	1
DC-06	140	80-161	ANNULUS	2,156	2,395	FLOWING	8/14/80	1
	141	80-22	VANTAGE TO ROCKY COULEE FT	2,258	2,289	FLOWING	10/18/79	1
	142	SITE-214	ROCKY COULEE FT TO TD BELOW UMTANUM	2,260	4,333	FLOWING	7/21/78	5
	143	80-238	ROCKY COULEE FT TO TD BELOW UMTANUM	2,260	4,333	FLOWING	9/11/80	1
	144	80-191	COHASSETT TO ROCKY COULEE FB	2,396	2,697	FLOWING	8/14/80	1
	145	80-58	COHASSETT FT	2,447	2,477	FLOWING	10/ 5/79	1
	146	79-59	MCCOY CANYON FT	2,887	2,917	FLOWING	9/27/79	1
	147	81-45	MCCOY CANYON	2,892	3,078	FLOWING	10/31/80	1
	148	80-118	MCCOY CANYON FB AND UMTANUM FT	2,992	3,078	FLOWING	5/27/80	1
	149	80-15	UMTANUM FB AND BELOW	3,242	3,529	FLOWING	3/24/80	1
	150	81-82	UMTANUM FB AND BELOW	3,242	3,529	FLOWING	2/24/81	1
	151	80-29	GRANDE RONDE	3,530	3,824	FLOWING	2/ 8/80	1
	152	79-57	GRANDE RONDE	3,691	3,720	FLOWING	8/ 2/79	1
	153	80-75	GRANDE RONDE	4,169	4,333	FLOWING	1/ 2/80	1
DC-07	154	82-23	ROCKY COULEE THRU UMTANUM	2,780	3,948	PUMP	3/16/82	1
	155	82-10	ROCKY COULEE THRU UMTANUM	2,780	3,948	PUMP	3/30/82	1
	156	80-39	ROCKY COULEE FB AND COHASSETT FT	2,952	3,082	AIRLIFT IQ	10/12/79	1
	157	80-19	ROCKY COULEE FB AND COHASSETT FT	2,952	3,082	AIRLIFT IQ	10/17/79	1
	158	79-52	UMTANUM FT	3,555	3,685	AIRLIFT	9/27/79	1
	159	80-103	GRANDE RONDE	4,112	4,493	AIRLIFT IQ	4/24/80	1
	160	80-188	GRANDE RONDE	4,830	5,008	AIRLIFT	8/14/80	1
	161	80-196	GRANDE RONDE	4,830	5,008	SWAB	8/15/80	1
DC-12	162	80-80	PRIEST RAPIDS	1,217	1,254	PUMP	1/23/80	1
	163	80-100	PRIEST RAPIDS/ROZA	1,328	1,364	PUMP	2/ 7/80	1
	164	80-97	ROZA/FRENCHMAN SPRINGS	1,508	1,534	PUMP	2/25/80	1
	165	80-32	FRENCHMAN SPRINGS	1,688	1,710	PUMP	3/11/80	1
	166	80-82	FRENCHMAN SPRINGS	1,910	1,984	PUMP	4/ 8/80	1
	167	80-124	FRENCHMAN SPRINGS	2,050	2,079	AIRLIFT IQ	5/ 9/80	1
	168	80-101	ROCKY COULEE FT	2,408	2,446	SWAB	7/14/80	1

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
DC-12	169	80-174	ROCKY COULEE FT	2.408	2.446	AIRLIFT IO	7/14/80	1
	170	80-209	COHASSETT FB	2.818	2.843	AIRLIFT IO	9/ 2/80	1
	171	80-233	COHASSETT FB	2.818	2.845	AIRLIFT IO	9/10/80	1
	172	80-234	GRANDE RONDE	2.838	2.864	AIRLIFT IO	9/24/80	1
	173	81-61	GRANDE RONDE	4.022	4.071	AIRLIFT IO	4/20/81	1
	174	82-85	GRANDE RONDE	4.419	4.455	AIRLIFT IO	11/ 4/81	1
DC-14	175	80-3	ELEPHANT MOUNTAIN	368	475	PUMP	1/22/80	1
	176	80-53	RATTLESNAKE RIDGE	475	538	PUMP	1/18/80	1
	177	80-47	SELAH	675	768	FLOWING	2/ 5/80	1
	178	80-69	ASOTIN	880	907	FLOWING	3/14/80	1
	179	80-99	ANNULUS	910	925	FLOWING	3/26/80	1
	180	80-89	ASOTIN	925	969	FLOWING	3/26/80	1
	181	80-71	MABTON	969	1.083	FLOWING	4/ 7/80	1
	182	80-144	PRIEST RAPIDS	1.180	1.192	FLOWING	5/20/80	1
	183	80-189	PRIEST RAPIDS	1.196	1.217	FLOWING	5/20/80	1
	184	80-112	ROZA	1.285	1.346	FLOWING	6/11/80	1
	185	80-157	SQUAW CREEK	1.480	1.516	FLOWING	6/23/80	1
	186	80-155	FRENCHMAN SPRINGS	1.575	1.632	FLOWING	7/ 7/80	1
	187	80-104	FRENCHMAN SPRINGS	1.640	1.708	FLOWING	7/14/80	1
	188	80-129	FRENCHMAN SPRINGS	1.720	1.820	FLOWING	7/29/80	1
	189	80-170	FRENCHMAN SPRINGS	1.820	1.875	FLOWING	8/12/80	1
	190	80-117	FRENCHMAN SPRINGS	1.888	1.983	FLOWING	8/22/80	1
	191	80-213	L. FRENCHMAN SPRINGS TO ROCKY COULEE FT	2.120	2.235	FLOWING	9/ 9/80	1
	192	81-20	COHASSETT FT	2.410	2.513	FLOWING	10/14/80	1
	193	81-30	MCCOY CANYON FB AND UMTANUM FT	3.060	3.144	FLOWING	12/23/80	1
	194	81-44	UMTANUM FB	3.180	3.225	FLOWING	1/19/81	1
	195	81-141	UMTANUM FB	3.192	3.228	FLOWING	7/15/81	1
	196	81-21	GRANDE RONDE	3.260	3.335	FLOWING	2/11/81	1
	197	81-99	GRANDE RONDE	3.260	3.335	FLOWING	5/18/81	1
	198	81-163	GRANDE RONDE	3.260	3.335	FLOWING	5/22/81	1
	199	81-138	GRANDE RONDE	3.260	3.335	FLOWING	5/26/81	1
	200	82-8	GRANDE RONDE	3.260	3.335	FLOWING	1/11/82	1
	201	82-315	GRANDE RONDE	3.260	3.335	FLOWING	8/11/82	1
	202	83-156	GRANDE RONDE	3.260	3.335	FLOWING	2/15/83	1
	203	83-152	GRANDE RONDE	3.260	3.335	FLOWING	2/18/83	1
	204	83-157	GRANDE RONDE	3.260	3.335	FLOWING	2/22/83	1
	205	83-178	GRANDE RONDE	3.260	3.335	FLOWING	2/25/83	1
	206	83-183	GRANDE RONDE	3.260	3.335	FLOWING	3/ 1/83	1
	207	83-154	GRANDE RONDE	3.260	3.335	FLOWING	3/ 4/83	1
	208	83-150	GRANDE RONDE	3.260	3.335	FLOWING	3/ 8/83	1
	209	83-266	GRANDE RONDE	3.260	3.335	FLOWING	3/11/83	1
	210	83-261	GRANDE RONDE	3.260	3.335	FLOWING	3/15/83	1
DC-15	211	80-56	LEVEY	275	343	PUMP	1/ 4/80	1
	212	80-54	RATTLESNAKE RIDGE	417	496	PUMP	1/23/80	1
	213	80-57	COLD CREEK	713	787	PUMP	3/25/80	1
	214	80-87	MABTON	1.003	1.072	PUMP	4/14/80	1
	215	80-137	PRIEST RAPIDS/ROZA	1.219	1.293	PUMP	5/ 5/80	1
	216	80-176	ROZA	1.357	1.390	AIRLIFT IO	6/12/80	1

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
DC-15	217	80-135	FRENCHMAN SPRINGS	1.481	1.506	AIRLIFT IO	6/30/80	1
	218	80-120	FRENCHMAN SPRINGS	1.540	1.593	AIRLIFT IO	7/15/80	1
	219	80-131	FRENCHMAN SPRINGS	1.735	1.833	AIRLIFT IO	8/ 4/80	1
	220	80-193	FRENCHMAN SPRINGS	1.834	1.887	AIRLIFT IO	8/12/80	1
	221	81-41	L. FRENCHMAN SPRINGS TO U. GRANDE RONDE	2.099	2.198	AIRLIFT IO	10/ 1/80	1
	222	81-2	ROCKY COULEE FT	2.227	2.343	AIRLIFT IO	10/28/80	1
	223	81-46	COHASSETT FB	2.651	2.700	AIRLIFT IO	12/10/80	1
	224	81-33	GRANDE RONDE	2.692	2.763	AIRLIFT IO	1/ 8/81	1
	225	81-27	MCCOY CANYON FB AND UMTANUM FT	2.961	3.113	AIRLIFT IO	2/17/81	1
	226	81-64	UMTANUM FB	3.245	3.296	AIRLIFT IO	3/23/81	1
	227	81-96	GRANDE RONDE	3.301	3.412	AIRLIFT IO	4/10/81	1
	228	81-69	GRANDE RONDE	3.301	3.412	AIRLIFT IO	4/13/81	1
	229	82-94	GRANDE RONDE	4.138	4.243	SIPHONED	11/ 5/81	1
DC-16A	230	81-109	RATTLESNAKE RIDGE	668	835	PUMP	9/23/81	1
	231	82-17	SELAH	928	1.021	PUMP	10/21/81	1
	232	82-93	MABTON	1.395	1.568	PUMP	1/28/82	1
	233	82-19	PRIEST RAPIDS/ROZA	1.760	1.828	PUMP	3/29/82	1
	234	82-188	L. ROZA AND U. FRENCHMAN SPRINGS	1.892	2.000	WINDMILL	4/16/82	1
	235	82-124	FRENCHMAN SPRINGS	2.105	2.156	WINDMILL	5/12/82	1
	236	82-143	FRENCHMAN SPRINGS	2.201	2.261	WINDMILL	6/ 3/82	1
	237	82-202	FRENCHMAN SPRINGS	2.266	2.371	AIRLIFT IO	6/24/82	1
	238	82-231	FRENCHMAN SPRINGS	2.266	2.371	WINDMILL	6/24/82	1
	239	82-322	FRENCHMAN SPRINGS	2.476	2.559	PUMP	8/ 2/82	1
	240	82-339	FRENCHMAN SPRINGS	2.585	2.632	PUMP	8/19/82	1
	241	82-419	VANTAGE AND U. GRANDE RONDE	2.670	2.822	PUMP	9/14/82	1
	242	82-430	VANTAGE AND U. GRANDE RONDE	2.671	2.730	WINDMILL	9/14/82	1
	243	83-29	ROCKY COULEE	2.836	2.946	WINDMILL	11/16/82	1
DC-16B	244	83-147	MABTON	1.368	1.600	PUMP	2/23/83	1
DC-16C	245	83-100	ROCKY COULEE FT	2.823	2.943	AIRLIFT	11/19/82	1
	246	83-259	MCCOY CANYON FT	3.499	3.551	AIRLIFT	3/16/83	1
DC-19C	247	84-53	FRENCHMAN SPRINGS	1.824	1.952	PUMP	12/16/83	1
	248	84-40	FRENCHMAN SPRINGS	2.421	2.468	PUMP	12/ 8/83	1
	249	84-75	COHASSETT FT	3.008	3.105	PUMP	11/10/83	1
	250	84-86	UMTANUM FT	3.567	3.586	PUMP	11/ 6/83	1
DC-20C	251	84-9	WANAPUM/GRANDE RONDE	1.581	3.781	PUMP	11/30/83	1
DC-22C	252	84-105	WANAPUM/GRANDE RONDE	1.709	3.960	PUMP	2/11/84	1
ENYEART	253	SITE-209	PRIEST RAPIDS	935	1.092	PUMP	11/29/51	6
	254	SITE-210	PRIEST RAPIDS	935	1.092	PUMP	5/14/69	6
	255	84-166	PRIEST RAPIDS	935	1.092	FLOWING	2/28/84	1
	256	85-1	PRIEST RAPIDS	960	1.088	FLOWING	10/ 9/84	1
FORD	257	SITE-206	PRIEST RAPIDS	620	777	PUMP	11/30/51	6
	258	SITE-207	PRIEST RAPIDS	620	777	PUMP	8/27/70	6

BOREHOLE DATA FOR CONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
FORD	259	SITE-219	PRIEST RAPIDS	620	777	FLOWING	8/11/78	5
MCGEE	260	SITE-224	PRIEST RAPIDS	691	978	FLOWING	5/14/69	6
	261	SITE-222	PRIEST RAPIDS	691	978	FLOWING	8/27/70	7
	262	SITE-223	PRIEST RAPIDS	691	978	FLOWING	9/ 8/70	7
	263	SITE-225	PRIEST RAPIDS	691	978	FLOWING	1/ 1/77	6
	264	SITE-220		691	978		8/13/78	5
	265	82-7	PRIEST RAPIDS	691	978	FLOWING	4/ 2/82	1
	266	80-64	PRIEST RAPIDS	692	925	FLOWING	4/17/80	1
	267	81-79	ANNULUS	692	925	FLOWING	3/10/81	1
	268	81-54	ROZA	925	968	FLOWING	3/10/81	1
	269	82-64	ROZA	925	968	FLOWING	4/ 5/82	1
	270	82-183	ROZA	981	1.109	FLOWING	4/ 5/82	1
	271	82-263	ROZA INTRAFLOW	1.028	1.096	FLOWING	6/28/82	1
	272	82-397	ROZA/FRENCHMAN SPRINGS	1.099	1.167	FLOWING	8/ 5/82	1
	273	82-424	FRENCHMAN SPRINGS	1.320	1.378	FLOWING	9/13/82	1
	274	82-436	FRENCHMAN SPRINGS	1.404	1.440	FLOWING	9/24/82	1
	275	83-32	FRENCHMAN SPRINGS	1.443	1.483	FLOWING	10/18/82	1
	276	83-83	FRENCHMAN SPRINGS	1.581	1.680	FLOWING	11/17/82	1
	277	83-188	FRENCHMAN SPRINGS	1.674	1.750	FLOWING	12/ 6/82	1
	278	83-373	GRANDE RONDE INTERFLOW	1.944	1.992	WINDMILL	5/24/83	1
	279	83-331	ROCKY COULEE FT	1.991	2.092	WINDMILL	6/ 7/83	1
	280	83-460	ROCKY COULEE FB	2.128	2.199	WINDMILL	6/21/83	1
	281	83-476	COHASSETT FT	2.188	2.337	WINDMILL	7/14/83	1
	282	83-513	COHASSETT FB	2.393	2.524	WINDMILL	8/ 3/83	1
	283	84-24	UMTANUM FB	2.854	3.123	WINDMILL	10/ 5/83	1
RRL-02	284	82-68	PRIEST RAPIDS	1.574	1.714	AIRLIFT IO	2/12/82	1
	285	82-65	ROZA	1.735	1.773	AIRLIFT IO	2/24/82	1
	286	82-170	FRENCHMAN SPRINGS	2.244	2.644	AIRLIFT IO	4/14/82	1
	287	82-122	U. GRANDE RONDE AND ROCKY COULEE FT	2.719	2.913	AIRLIFT IO	5/17/82	1
	288	82-401	COHASSETT FB	3.247	3.344	WINDMILL	9/17/82	1
	289	84-7	COHASSETT FB	3.247	3.344	WINDMILL	10/24/83	1
	290	82-364	UMTANUM FT	3.568	3.781	WINDMILL	7/21/82	1
	291	82-309	UMTANUM	3.781	3.827	WINDMILL	8/16/82	1
	292	82-456	UMTANUM FB	3.837	3.889	WINDMILL	9/29/82	1
RRL-06B	293	83-25	UMTANUM	3.708	3.823	PUMP	10/ 6/82	1
RRL-14	294	82-403	COHASSETT	3.017	3.147	WINDMILL	9/20/82	1
	295	84-11	COHASSETT	3.077	3.140	WINDMILL	10/27/83	1
	296	83-151	COHASSETT FB	3.294	3.403	PUMP	12/ 2/82	1
	297	83-49	UMTANUM FT	3.715	3.814	WINDMILL	11/ 6/82	1
S11-E12A	298	80-61	LEVEY	225	282	FLOWING	3/19/80	1
	299	80-180	LEVEY	225	282	AIRLIFT IO	7/24/80	1

BOREHOLE DATA FOR UNCONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
199-B4-4	300	SITE-41	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
199-D5-12	301	SITE-80	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
199-D8-3	302	SITE-72	UNCONFINED	9.999	9.999	PUMP	4/18/78	12
199-F5-1	303	SITE-82	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
199-H4-3	304	SITE-81	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
199-K-19	305	SITE-83	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
199-N-15	306	SITE-42	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
299-E26-8	307	SITE-165	UNCONFINED	326	396	PUMP	3/23/82	2
299-E33-12	308	SITE-169	UNCONFINED	305	380	PUMP	5/11/82	2
399-1-3	309	SITE-43	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
399-4-10	310	SITE-44	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
399-8-4	311	SITE-140	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-1-18	312	SITE-145	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-10-E12	313	SITE-147	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-11-45A	314	SITE-148	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-13-1A	315	SITE-60	UNCONFINED	9.999	9.999	PUMP	4/19/78	12
699-14-38	316	SITE-61	UNCONFINED	9.999	9.999	PUMP	4/20/78	12
	317	SITE-86	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-15-15B	318	SITE-13	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	319	SITE-149	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-15-26	320	SITE-24	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	321	SITE-150	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-17-5	322	SITE-18	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	323	SITE-151	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-19-43	324	SITE-48	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	325	SITE-121	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-2-3	326	SITE-1	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
699-2-33	327	SITE-85	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13

2/27/85

BOREHOLE DATA FOR UNCONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
699-2-33	328	SITE-146	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-20-20	329	SITE-25	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-20-E5-0	330	SITE-49	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-24-33	331	SITE-28	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-24-46	332	SITE-122	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-25-55	333	SITE-100	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-26-15	334	SITE-26	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-27-4	335	SITE-101	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-27-8	336	SITE-5	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
	337	SITE-30	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	338	SITE-50	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	339	SITE-76	UNCONFINED	9.999	9.999	PUMP	4/17/78	12
	340	SITE-87	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-28-40	341	SITE-68	UNCONFINED	9.999	9.999	PUMP	4/19/78	12
699-31-31	342	SITE-69	UNCONFINED	9.999	9.999	PUMP	4/19/78	12
	343	SITE-102	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-31-53B	344	SITE-88	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-32-22	345	SITE-17	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	346	SITE-27	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	347	SITE-51	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	348	SITE-65	UNCONFINED	9.999	9.999	PUMP	1/ 1/78	12
	349	SITE-89	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-32-70	350	SITE-70	UNCONFINED	9.999	9.999	PUMP	1/ 1/78	12
	351	SITE-90	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
	352	SITE-152	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-32-72	353	SITE-35	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-32-77	354	SITE-103	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-33-42	355	SITE-12	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	356	SITE-29	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	357	SITE-52	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	358	SITE-67	UNCONFINED	9.999	9.999	PUMP	4/20/78	12
	359	SITE-91	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-33-56	360	SITE-8	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8

BOREHOLE DATA FOR UNCONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
699-33-56	361	SITE-40	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	1
	362	SITE-53	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	363	SITE-62	UNCONFINED	9.999	9.999	PUMP	4/20/78	12
	364	SITE-92	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-34-39A	365	SITE-93	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-34-42	366	SITE-33	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	367	SITE-153	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-34-51	368	SITE-66	UNCONFINED	9.999	9.999	PUMP	4/20/78	12
699-35-66	369	SITE-77	UNCONFINED	9.999	9.999	PUMP	4/18/78	12
	370	SITE-94	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-35-70	371	SITE-36	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-35-78	372	SITE-54	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-35-9	373	SITE-31	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	374	SITE-104	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-36-61A	375	SITE-95	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-37-43	376	SITE-34	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	377	SITE-173	UNCONFINED	9.999	9.999	PUMP	8/13/82	2
699-37-82A	378	SITE-105	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-38-70	379	SITE-37	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-4-E6	380	SITE-47	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-40-1	381	SITE-10	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	382	SITE-106	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-40-33	383	SITE-55	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-40-62	384	SITE-56	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-41-23	385	SITE-15	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	386	SITE-113	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-42-12	387	SITE-2	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
	388	SITE-155	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-42-2	389	SITE-154	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-42-40A	390	SITE-174	UNCONFINED	9.999	9.999	PUMP	8/13/82	2

2/27/85

BOREHOLE DATA FOR UNCONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
699-42-40C	391	SITE-175	UNCONFINED	9.999	9.999	PUMP	1/19/82	2
699-42-42	392	SITE-114	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-43-88	393	SITE-123	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-45-42	394	SITE-57	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-45-69	395	SITE-96	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-46-21	396	SITE-75	UNCONFINED	9.999	9.999	PUMP	4/17/78	12
	397	SITE-124	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-46-5	398	SITE-156	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-47-55A	399	SITE-182	UNCONFINED	9.999	9.999	PUMP	8/11/82	2
699-48-18	400	SITE-125	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-48-71	401	SITE-59	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-49-55	402	SITE-9	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
	403	SITE-39	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	404	SITE-58	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	405	SITE-78	UNCONFINED	9.999	9.999	PUMP	4/17/78	12
	406	SITE-97	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
	407	SITE-126	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
	408	SITE-157	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-49-57	409	SITE-38	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-49-79	410	SITE-20	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
699-50-288	411	SITE-63	UNCONFINED	9.999	9.999	PUMP	4/19/78	12
699-50-42	412	SITE-14	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
	413	SITE-115	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-50-8	414	SITE-64	UNCONFINED	9.999	9.999	PUMP	4/19/78	12
699-50-85	415	SITE-127	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-51-63	416	SITE-116	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-53-103	417	SITE-160	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
699-55-50C	418	SITE-79	UNCONFINED	9.999	9.999	PUMP	4/17/70	12
	419	SITE-128	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
	420	SITE-193	UNCONFINED	9.999	9.999	PUMP	8/ 9/82	2

BOREHOLE DATA FOR UNCONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
699-55-76	421	SITE-71	UNCONFINED	9.999	9.999	PUMP	4/18/78	12
	422	SITE-117	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
	423	SITE-129	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-55-89	424	SITE-118	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-56-53	425	SITE-194	UNCONFINED	9.999	9.999	PUMP	1/11/82	2
	426	SITE-195	UNCONFINED	9.999	9.999	PUMP	1/11/82	2
699-57-25A	427	SITE-119	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-57-83	428	SITE-130	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-59-58	429	SITE-107	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-60-57	430	SITE-198	UNCONFINED	9.999	9.999	PUMP	8/10/82	2
699-62-31	431	SITE-131	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-63-25A	432	SITE-132	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-63-90	433	SITE-74	UNCONFINED	9.999	9.999	PUMP	4/18/78	12
	434	SITE-133	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-64-27	435	SITE-158	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-65-50	436	SITE-73	UNCONFINED	9.999	9.999	PUMP	4/18/78	12
	437	SITE-134	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-66-39	438	SITE-135	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-66-58	439	SITE-136	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-66-64	440	SITE-137	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-69-38	441	SITE-6	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
699-71-30	442	SITE-108	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-71-52	443	SITE-138	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-72-73	444	SITE-109	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-72-88	445	SITE-98	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-77-36	446	SITE-110	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-78-62	447	SITE-111	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-8-17	448	SITE-23	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10

BOREHOLE DATA FOR UNCONFINED AQUIFERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	PRODUCING ZONE	PACKER TOP	PACKER BOTTOM	SAMPLING METHOD	DATE	SOURCE
699-8-25	449	SITE-32	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-8-32	450	SITE-19	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
699-81-58	451	SITE-159	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-83-47	452	SITE-112	UNCONFINED	9.999	9.999	PUMP	1/ 1/80	14
699-87-55	453	SITE-99	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
699-9-E2	454	SITE-16	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
699-90-45	455	SITE-139	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-HANFORD-19	456	SITE-3	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
699-811-E12A	457	SITE-4	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
699-812-3	458	SITE-45	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	459	SITE-143	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-819-E13	460	SITE-120	UNCONFINED	9.999	9.999	PUMP	1/ 1/81	15
699-829-E12	461	SITE-21	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
699-83-25	462	SITE-7	UNCONFINED	9.999	9.999	PUMP	1/ 1/74	8
	463	SITE-142	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-83-E12	464	SITE-22	UNCONFINED	9.999	9.999	PUMP	1/ 1/76	10
	465	SITE-141	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-830-E15A	466	SITE-144	UNCONFINED	9.999	9.999	PUMP	1/ 1/82	16
699-86-E4D	467	SITE-11	UNCONFINED	9.999	9.999	PUMP	6/ 1/75	9
699-88-19	468	SITE-46	UNCONFINED	9.999	9.999	PUMP	1/ 1/77	11
	469	SITE-84	UNCONFINED	9.999	9.999	PUMP	1/ 1/79	13
RRL-06A	470	82-40	MIDDLE RINGOLD	9.999	9.999	PUMP	10/21/81	1

BOREHOLE DATA FOR SPRINGS WATERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	SAMPLING METHOD	DATE	SOURCE
BENNETT SPRING	471	SITE-218	FLOWING	8/ 3/78	5
	472	79-13	FLOWING	5/25/79	1
BENSON SPRING	473	SITE-217	FLOWING	8/ 1/78	5
BUTLER SPRING	474	79-1	FLOWING	6/ 7/79	1
GULCH SPRING	475	84-359	FLOWING	7/18/84	1
JUNIPER SPRING	476	SITE-215	FLOWING	7/28/78	5
	477	79-2	FLOWING	5/31/79	1
	478	81-115	FLOWING	6/26/81	1
	479	83-372	FLOWING	5/26/83	1
LOWER SNIVELY SPRING	480	79-34	FLOWING	5/18/79	1
	481	82-362	FLOWING	8/12/82	1
	482	83-396	FLOWING	5/19/83	1
LOZIER SPRING	483	79-6	FLOWING	6/29/79	1
	484	81-186	FLOWING	6/30/81	1
	485	83-316	FLOWING	6/15/83	1
MAIDEN SPRING	486	79-100	FLOWING	9/24/79	1
	487	83-420	FLOWING	7/21/83	1
OBSERVATORY SPRING	488	84-392	FLOWING	6/25/84	1
	489	84-329	FLOWING	8/ 2/84	1
	490	81-119	FLOWING	7/ 2/81	1
	491	83-433	FLOWING	6/30/83	1
RAILROAD SPRING	492	79-76	FLOWING	8/20/79	1
RATTLESNAKE SPRING	493	SITE-216	FLOWING	7/31/78	5
	494	79-86	FLOWING	9/ 7/79	1
	495	83-412	FLOWING	7/28/83	1
SNIVELY SPRING	496	79-49	FLOWING	5/23/79	1
SULPHUR SPRINGS	497	79-29	FLOWING	6/ 8/79	1
	498	83-409	FLOWING	7/21/83	1
UNNAMED SPRING #02	499	79-75	FLOWING	7/26/76	1
UNNAMED SPRING #16	500	79-73	FLOWING	9/ 4/79	1
UNNAMED SPRING #26	501	79-98	FLOWING	8/13/79	1
UNNAMED SPRING #29	502	79-16	FLOWING	7/24/79	1
UPPER SNIVELY SPRING	503	79-71	FLOWING	8/24/79	1

BOREHOLE DATA FOR SPRINGS WATERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	SAMPLING METHOD	DATE	SOURCE
UPPER SNIVELY SPRING	504	81-126	FLOWING	7/31/81	1
	505	83-503	FLOWING	9/ 8/83	1
WARM SPRING	506	84-358	FLOWING	7/18/84	1

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BOREHOLE DATA FOR SURFACE WATERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	SAMPLING METHOD	DATE	SOURCE
COL RIV @ HANFORD TB	507	SITE-221	DIP	7/25/78	5
COL RIV @ VERNITA BR	508	84-330	DIP	8/ 1/84	5
	509	84-311	DIP	8/ 7/84	5
COL RIVER @ DC-14	510	83-258	DIP	3/16/83	5
COL RIVER @ DC-15	511	81-68	DIP	3/23/81	5
	512	81-1	DIP	12/10/81	5
COLD CREEK	513	84-317	DIP	8/ 1/84	5
	514	84-302	DIP	8/ 9/84	5

BOREHOLE DATA FOR PRECIPITATION WATERS SAMPLING EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	SAMPLING METHOD	DATE	SOURCE
STATION 03	515	82-89	PRECIP COLLECTOR	12/14/81	1
	516	82-51	PRECIP COLLECTOR	3/ 2/82	1
	517	82-81	PRECIP COLLECTOR	3/15/82	1
	518	82-78	PRECIP COLLECTOR	3/29/82	1
	519	82-179	PRECIP COLLECTOR	4/14/82	1
	520	82-138	PRECIP COLLECTOR	5/10/82	1
	521	83-90	PRECIP COLLECTOR	10/26/82	1
	522	83-46	PRECIP COLLECTOR	11/ 1/82	1
	523	83-118	PRECIP COLLECTOR	11/19/82	1
	524	83-132	PRECIP COLLECTOR	11/19/82	1
	525	83-189	PRECIP COLLECTOR	1/ 7/83	1
	526	83-114	PRECIP COLLECTOR	2/ 2/83	1
	527	83-143	PRECIP COLLECTOR	2/11/83	1
	528	83-277	PRECIP COLLECTOR	3/ 9/83	1
STATION 04	529	82-15	PRECIP COLLECTOR	12/14/81	1
	530	82-61	PRECIP COLLECTOR	3/ 2/82	1
	531	82-60	PRECIP COLLECTOR	3/15/82	1
	532	82-90	PRECIP COLLECTOR	3/29/82	1
	533	82-120	PRECIP COLLECTOR	4/14/82	1
	534	82-117	PRECIP COLLECTOR	5/10/82	1
	535	83-36	PRECIP COLLECTOR	10/26/82	1
	536	83-84	PRECIP COLLECTOR	11/ 1/82	1
	537	83-141	PRECIP COLLECTOR	11/19/82	1
	538	83-116	PRECIP COLLECTOR	12/ 2/82	1
	539	83-110	PRECIP COLLECTOR	12/27/82	1
	540	83-155	PRECIP COLLECTOR	12/29/82	1
	541	83-102	PRECIP COLLECTOR	1/ 7/83	1
	542	83-165	PRECIP COLLECTOR	2/ 2/83	1
	543	83-180	PRECIP COLLECTOR	2/11/83	1
	544	83-250	PRECIP COLLECTOR	3/ 9/83	1
STATION 07	545	82-46	PRECIP COLLECTOR	12/14/81	1
	546	82-92	PRECIP COLLECTOR	3/ 2/82	1
	547	82-57	PRECIP COLLECTOR	3/15/82	1
	548	82-44	PRECIP COLLECTOR	3/29/82	1
	549	82-136	PRECIP COLLECTOR	4/14/82	1
	550	82-185	PRECIP COLLECTOR	5/10/82	1
	551	83-43	PRECIP COLLECTOR	10/26/82	1
	552	83-23	PRECIP COLLECTOR	11/ 1/82	1
	553	83-187	PRECIP COLLECTOR	11/19/82	1
	554	83-148	PRECIP COLLECTOR	12/ 2/82	1
	555	83-169	PRECIP COLLECTOR	1/ 7/83	1
	556	83-181	PRECIP COLLECTOR	2/ 2/83	1
	557	83-124	PRECIP COLLECTOR	2/11/83	1
	558	83-208	PRECIP COLLECTOR	3/ 9/83	1
STATION 14	559	82-38	PRECIP COLLECTOR	12/14/81	1
	560	82-20	PRECIP COLLECTOR	3/ 2/82	1
	561	82-63	PRECIP COLLECTOR	3/15/82	1

BOREHOLE DATA FOR PRECIPITATION WATERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	SAMPLING METHOD	DATE	SOURCE
STATION 14	562	82-86	PRECIP COLLECTOR	3/29/82	1
	563	82-178	PRECIP COLLECTOR	4/14/82	1
	564	82-147	PRECIP COLLECTOR	5/10/82	1
	565	83-71	PRECIP COLLECTOR	10/26/82	1
	566	83-95	PRECIP COLLECTOR	11/ 1/82	1
	567	83-184	PRECIP COLLECTOR	12/ 2/82	1
	568	83-160	PRECIP COLLECTOR	12/27/82	1
	569	83-174	PRECIP COLLECTOR	1/ 7/83	1
	570	83-128	PRECIP COLLECTOR	2/ 2/83	1
	571	83-149	PRECIP COLLECTOR	2/11/83	1
	572	83-295	PRECIP COLLECTOR	3/ 9/83	1
STATION 17	573	82-99	PRECIP COLLECTOR	12/14/81	1
	574	82-53	PRECIP COLLECTOR	1/19/82	1
	575	82-95	PRECIP COLLECTOR	1/19/82	1
	576	82-70	PRECIP COLLECTOR	2/26/82	1
	577	82-80	PRECIP COLLECTOR	3/15/82	1
	578	82-100	PRECIP COLLECTOR	3/29/82	1
	579	82-118	PRECIP COLLECTOR	4/14/82	1
	580	82-134	PRECIP COLLECTOR	5/10/82	1
	581	83-11	PRECIP COLLECTOR	10/26/82	1
	582	83-86	PRECIP COLLECTOR	11/ 1/82	1
	583	83-120	PRECIP COLLECTOR	12/ 2/82	1
	584	83-199	PRECIP COLLECTOR	12/27/82	1
	585	83-182	PRECIP COLLECTOR	12/29/82	1
	586	83-124	PRECIP COLLECTOR	1/ 7/83	1
	587	83-142	PRECIP COLLECTOR	2/ 2/83	1
	588	83-256	PRECIP COLLECTOR	3/ 9/83	1
STATION 19	589	83-159	PRECIP COLLECTOR	11/19/82	1
STATION 20	590	82-50	PRECIP COLLECTOR	12/14/81	1
	591	82-16	PRECIP COLLECTOR	1/19/82	1
	592	82-26	PRECIP COLLECTOR	1/19/82	1
	593	82-58	PRECIP COLLECTOR	2/26/82	1
	594	82-74	PRECIP COLLECTOR	3/ 2/82	1
	595	82-54	PRECIP COLLECTOR	3/ 5/82	1
	596	82-1	PRECIP COLLECTOR	3/15/82	1
	597	82-93	PRECIP COLLECTOR	3/29/82	1
	598	82-196	PRECIP COLLECTOR	4/14/82	1
	599	82-197	PRECIP COLLECTOR	5/10/82	1
	600	83-37	PRECIP COLLECTOR	10/26/82	1
	601	83-34	PRECIP COLLECTOR	11/ 1/82	1
	602	83-170	PRECIP COLLECTOR	11/19/82	1
	603	83-130	PRECIP COLLECTOR	12/27/82	1
	604	83-119	PRECIP COLLECTOR	12/29/82	1
	605	83-198	PRECIP COLLECTOR	1/ 7/83	1
STATION 25	606	82-9	PRECIP COLLECTOR	12/14/81	1
	607	82-76	PRECIP COLLECTOR	12/17/81	1

BOREHOLE DATA FOR PRECIPITATION WATERS SAMPLING-EVENTS

LOCATION	RECORD NUMBER	REFERENCE NUMBER	SAMPLING METHOD	DATE	SOURCE
STATION 25	608	82-24	PRECIP COLLECTOR	1/19/82	1
	609	82-83	PRECIP COLLECTOR	2/26/82	1
	610	82-66	PRECIP COLLECTOR	3/ 2/82	1
	611	82-79	PRECIP COLLECTOR	3/ 5/82	1
	612	82-25	PRECIP COLLECTOR	3/15/82	1
	613	82-67	PRECIP COLLECTOR	3/29/82	1
	614	82-153	PRECIP COLLECTOR	4/14/82	1
	615	82-152	PRECIP COLLECTOR	5/10/82	1
	616	83-89	PRECIP COLLECTOR	10/26/82	1
	617	83-53	PRECIP COLLECTOR	11/ 1/82	1
	618	83-134	PRECIP COLLECTOR	11/19/82	1
	619	83-139	PRECIP COLLECTOR	12/ 2/82	1
	620	83-142	PRECIP COLLECTOR	12/27/82	1
	621	83-190	PRECIP COLLECTOR	1/ 7/83	1
	622	83-198	PRECIP COLLECTOR	2/ 2/83	1
	623	83-135	PRECIP COLLECTOR	2/11/83	1
	624	83-217	PRECIP COLLECTOR	3/ 9/83	1
STATION 26	625	82-29	PRECIP COLLECTOR	12/14/81	1
	626	82-32	PRECIP COLLECTOR	1/19/82	1
	627	82-48	PRECIP COLLECTOR	1/19/82	1
	628	82-91	PRECIP COLLECTOR	2/26/82	1
	629	82-98	PRECIP COLLECTOR	3/ 2/82	1
	630	82-30	PRECIP COLLECTOR	3/ 5/82	1
	631	82-71	PRECIP COLLECTOR	3/15/82	1
	632	82-39	PRECIP COLLECTOR	3/29/82	1
	633	82-116	PRECIP COLLECTOR	4/14/82	1
	634	82-108	PRECIP COLLECTOR	5/10/82	1
	635	83-3	PRECIP COLLECTOR	10/26/82	1
	636	83-70	PRECIP COLLECTOR	11/ 1/82	1
	637	83-163	PRECIP COLLECTOR	11/19/82	1
	638	83-177	PRECIP COLLECTOR	12/ 2/82	1
	639	83-171	PRECIP COLLECTOR	12/27/82	1
	640	83-167	PRECIP COLLECTOR	12/29/82	1
	641	83-131	PRECIP COLLECTOR	1/ 7/83	1
	642	83-101	PRECIP COLLECTOR	2/ 2/83	1
	643	83-104	PRECIP COLLECTOR	2/11/83	1
	644	83-284	PRECIP COLLECTOR	3/ 9/83	1

LIST OF REFERENCE DOCUMENTS BY SOURCE NUMBER

SOURCE REFERENCE DOCUMENT
NUMBER

1 SAMPLES COLLECTED AND ANALYZED BY THE BASALT WASTE ISOLATION PROJECT (BWIP) AND OTHER ROCKWELL FACILITIES

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MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
299-E16-1	1	SITE-161	8.600	9.050	325.00			23.30	
	2	SITE-162	8.300	8.450	380.00			22.90	
	3	SITE-163	8.800	8.350	370.00			22.80	
	4	SITE-164	8.600	8.300	340.00			23.20	
299-E26-8	5	SITE-166	8.400	8.500	360.00			21.30	
	6	SITE-167	8.300	8.350	370.00			19.50	
	7	SITE-168	8.300		375.00			20.60	
299-E33-12	8	SITE-170	9.100	9.750	345.00			20.30	
	9	SITE-171	9.000	9.450	305.00			19.70	
	10	SITE-172	8.900	8.250	315.00			19.90	
699-42-40C	11	SITE-177	9.000	8.750	365.00			18.40	
	12	SITE-178	8.300		260.00			18.40	
	13	SITE-179	8.200	8.450	330.00			19.60	
	14	SITE-180							
	15	SITE-176	7.800	7.700	425.00			18.00	
699-47-50	16	SITE-205		7.500	521.60			18.30	
	17	SITE-181	7.800	7.800	560.00			19.40	
699-49-55B	18	SITE-183	7.600	7.800	375.00			18.10	
	19	SITE-184	7.600	7.800	365.00			18.40	
	20	SITE-185	7.500					18.00	
699-50-45	21	SITE-203		7.400	301.10			16.80	
	22	SITE-186	8.200	7.600	410.00			17.60	
699-50-48	23	SITE-204		7.500	320.30			18.40	
	24	SITE-187	8.200	7.600	470.00			19.80	
699-51-46	25	SITE-201		8.900	254.90			16.50	
	26	SITE-188	8.800	8.600	320.00			17.30	
699-52-46A	27	SITE-202		7.400	313.40			17.80	
	28	SITE-189	8.000	7.650	360.00			18.40	
699-52-48	29	SITE-199		7.400	330.70			16.80	
	30	SITE-190	8.000	8.050	400.00			17.90	
699-53-50	31	SITE-200		7.400	306.80			16.80	
	32	SITE-191	7.600	7.650	365.00			17.20	
699-54-57	33	SITE-192	7.600	7.800	350.00			18.70	
699-56-53	34	SITE-196	7.500	7.750				17.40	
	35	SITE-197	7.600	7.850				18.40	
DB-01	36	CP73		8.360	401.00			22.20	26.10

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DB-01	36	CP82		8.360	401.00			22.20	26.10
	38	81-15	8.550	8.240	438.00	0.160	-110.000	18.10	26.10
	38	81-19	8.550	8.240	438.00	0.160	-110.000	18.10	26.10
	39	81-65	8.950	8.900	491.00	1.000	-190.000	23.90	
	39	81-70	8.950	8.900	491.00	1.000	-190.000	23.90	
	40	82-27		8.670	473.00	0.310	-260.000	19.90	
	40	82-87		8.670	473.00	0.310	-260.000	19.90	
DB-02	43	CP74		8.570	372.00			24.60	25.40
	43	CP83		8.570	372.00			24.60	25.40
	44	CP123						24.00	25.40
	46	81-11		8.430	463.00	2.000		16.50	27.50
	46	81-13		8.430	463.00	2.000		16.50	27.50
	47	81-10		8.670	496.00	1.900		20.90	27.90
	47	81-7		8.670	496.00	1.900		20.90	27.90
DB-04	48	CP37		8.000				26.40	31.00
	49	CP75		8.470	351.00			24.80	31.00
	49	CP84		8.470	351.00			24.80	31.00
	50	CP116						23.50	31.00
	51	CP117		8.300	405.00			23.00	31.00
DB-05	52	CP76		8.420	400.00			19.70	
	52	CP85		8.420	400.00			19.70	
	53	CP112		8.450	415.00			20.10	
	54	CP113		8.000	385.00			21.00	
DB-07	56	CP77		9.090	516.00			22.40	24.20
	56	CP86		9.090	516.00			22.40	24.20
	57	CP121						22.00	24.20
	59	83-413	9.450	9.350	528.00	0.140	-380.000	24.60	
	59	83-448	9.450	9.350	528.00	0.140	-380.000	24.60	
DB-09	60	CP54		8.530					22.30
	61	CP59		8.450					22.30
	62	CP78		8.410	332.00			22.20	22.30
	62	CP87		8.410	332.00			22.20	22.30
	63	CP114		8.400	345.00			20.80	22.30
	64	CP115						22.00	22.30
	66	83-410	8.500	8.500	311.00	0.180	-240.000	22.40	
	66	83-472	8.500	8.500	311.00	0.180	-240.000	22.40	
DB-10	67	CP79		9.610	465.00			18.50	26.40
	67	CP88		9.610	465.00			18.50	26.40
DB-11	72	CP53		8.260	295.00				
	72	CP56		8.260	295.00				
	73	CP61		8.110	265.00				
	73	CP64		8.110	265.00				
	74	CP80		8.200	285.00			26.70	

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DB-11	74	CP89		8.200	285.00			26.70	
	75	81-57		8.190	277.00			26.40	
DB-12	76	63-95		8.050	320.00			15.80	16.30
	77	CP65		7.980	368.00			17.60	18.30
	78	CP66		8.270	335.00			19.60	18.30
	79	CP67		8.230	315.00			19.70	19.60
	80	CP68		7.960	325.00			19.30	19.60
	81	81-25		8.460	301.00	1.600	140.000	17.10	19.60
	81	81-42		8.460	301.00	1.600	140.000	17.10	19.60
DB-13	82	CP69		8.290	320.00				
	83	CP70		8.130	330.00			20.10	
	84	CP71		7.970	302.00			21.30	
	85	CP72		8.050	300.00				
	86	CP91		8.350	262.00			24.00	
	87	CP92		8.280	306.00			25.30	
	88	CP96			331.00			24.50	
	89	CP95		8.380	340.00			26.70	
	90	CP97A						27.50	
	90	CP97B						27.50	
	92	83-404	8.350	8.350	301.00	0.280	-300.000	27.50	
	92	83-455	8.350	8.350	301.00	0.280	-300.000	27.50	
DB-14	93	CP93		8.410	388.00			18.90	18.80
	93	CP94		8.410	388.00			18.90	18.80
	94	CP98		8.400	289.00				21.30
	95	CP99		8.590	288.00			21.50	21.30
	96	CP100		8.760	271.00			23.40	23.30
	97	CP101		8.660	271.00			23.00	23.30
	98	CP102		8.090	328.00			22.20	26.80
	99	CP103		8.010	303.00			23.90	26.80
	100	CP119		8.300	365.00			23.00	26.80
	101	81-139		9.310	714.00	0.730			
	101	81-162		9.310	714.00	0.730			
DB-15	102	79-17		7.000	317.80			17.40	16.70
	102	79-4		7.000	317.80			17.40	16.70
	103	79-20	7.800		327.00			19.60	19.30
	103	79-35	7.800		327.00			19.60	19.30
	104	79-27		8.100	342.00			21.20	22.80
	104	79-33		8.100	342.00			21.20	22.80
	105	79-15		8.200	382.00			22.00	23.80
	105	79-46		8.200	382.00			22.00	23.80
	106	79-39		8.700	427.50			22.10	
	106	79-8		8.700	427.50			22.10	
	107	79-31		8.700	450.30			22.80	24.90
	107	79-5		8.700	450.30			22.80	24.90
	109	79-51		9.500				24.00	26.90
	109	79-61		9.500				24.00	26.90

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DB-15	110	79-74		9.670	798.20			24.00	
	110	79-85		9.670	798.20			24.00	
	111	79-80		9.630	790.30			26.90	
	111	79-99		9.630	790.30			26.90	
	112	79-62		9.380	741.60			20.60	30.60
	112	79-84		9.380	741.60			20.60	30.60
	113	79-90		9.310	738.60			22.40	30.60
	113	79-95		9.310	738.60			22.40	30.60
	114	80-35		9.410	747.10			24.20	
	114	80-41		9.410	747.10			24.20	
	115	80-24		9.530	758.80			25.40	31.80
	115	80-74		9.530	758.80			25.40	31.80
	116	80-42		9.360	737.30			23.10	32.50
	116	80-77		9.360	737.30			23.10	32.50
	117	80-1		9.440	764.40	0.280		25.10	33.80
	117	80-51		9.440	764.40	0.280		25.10	33.80
DC-01	118	SITE-230			314.00				19.50
	119	SITE-226			351.00				21.00
	120	SITE-227		9.620	580.00				21.70
	121	SITE-228		9.580	664.00				23.80
	122	SITE-229		9.610	707.00				29.70
	123	SITE-231			353.00				20.70
	124	SITE-232		8.600	344.00				21.30
	125	SITE-233			402.00				22.90
	126	SITE-234			552.00				23.70
	127	SITE-235		9.700	773.00				26.80
	128	SITE-236		10.500	904.00				28.40
	129	SITE-237		9.940	839.00				31.20
	130	SITE-238		9.100	408.00				46.00
	131	SITE-239		10.100	867.00				51.80
	132	SITE-240		9.780	860.00				51.60
	133	SITE-241		9.720	852.00				52.10
	134	SITE-242		9.700	800.00				54.00
	135	SITE-243		9.100	630.00				63.90
DC-02A	136	80-25		8.800				22.30	41.50
	136	80-4		8.800				22.30	41.50
	137	SITE-213		9.800	840.00			36.40	
DC-03	138	80-27		10.800					
	138	80-81		10.800					
DC-05	139	79-30		9.000	1700.00				
	139	79-32		9.000	1700.00				
DC-06	140	80-147	9.900					21.00	
	140	80-161	9.900					21.00	
	141	80-22							
	141	80-72							

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DC-06	142	SITE-214	10.100	10.100	1060.00			46.00	
	143	80-201		10.200	1128.00	0.170	-330.000	41.00	
	143	80-238		10.200	1128.00	0.170	-330.000	41.00	
	144	80-186		9.620	1326.80	0.360	-380.000	21.00	
	144	80-191		9.620	1326.80	0.360	-380.000	21.00	
	145	80-13		8.550				24.90	47.38
	145	80-58		8.550				24.90	47.38
	146	79-59							
	146	79-97							
	147	81-45		10.050	1291.70	0.270	-360.000	19.80	
	147	81-8		10.050	1291.70	0.270	-360.000	19.80	
	148	80-118		9.710	1539.00	2.100		16.50	
	148	80-133		9.710	1539.00	2.100		16.50	
	149	80-15		9.750	1576.00	0.130		22.30	
	149	80-70		9.750	1576.00	0.130		22.30	
	150	81-76	9.700	9.400	1666.00	0.080	-450.000	37.50	
	150	81-82	9.700	9.400	1666.00	0.080	-450.000	37.50	
	151	80-29		10.440	966.70	0.210		44.70	
	151	80-37		10.440	966.70	0.210		44.70	
	152	79-57		10.000	1139.00			41.40	
	152	79-58		10.000	1139.00			41.40	
	153	80-45		10.600	1062.00	0.160		43.20	
	153	80-75		10.600	1062.00	0.160		43.20	
DC-07	154	82-23	9.150	9.890	1110.00	4.900	-420.000	25.30	53.30
	154	82-56	9.150	9.890	1110.00	4.900	-420.000	25.30	53.30
	155	82-10	9.260	9.570	1126.00	15.000	-440.000	26.00	53.30
	155	82-33	9.260	9.570	1126.00	15.000	-440.000	26.00	53.30
	156	80-39		8.400				19.40	48.10
	156	80-98		8.400				19.40	48.10
	157	80-11		8.500				23.00	
	157	80-19		8.500				23.00	
	158	79-52		9.100					
	158	79-55		9.100					
	159	80-103		9.880	1527.00	0.760		19.00	
	159	80-163		9.880	1527.00	0.760		19.00	
	160	80-178		8.950				26.50	
	160	80-188		8.950				26.50	
	161	80-177		9.480	1276.40		-60.000	26.40	
	161	80-196		9.480	1276.40		-60.000	26.40	
DC-12	162	80-62		9.210	672.80	4.000		22.00	27.00
	162	80-80		9.210	672.80	4.000		22.00	27.00
	163	80-100		9.400	653.20	0.180		23.00	28.00
	163	80-63		9.400	653.20	0.180		23.00	28.00
	164	80-73		9.460	653.70	0.200		22.60	29.80
	164	80-97		9.460	653.70	0.200		22.60	29.80
	165	80-32		9.520	726.10	0.250		23.80	
	165	80-68		9.520	726.10	0.250		23.80	
	166	80-23		9.450	707.00	65.000		21.60	

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DC-12	166	80-82		9.450	707.00	65.000		21.60	
	167	80-102		9.380	661.50	0.180		24.10	33.30
	167	80-124		9.380	661.50	0.180		24.10	33.30
	168	80-101						20.80	
	168	80-169						20.80	
	169	80-143		9.570	705.10	1.700	-210.000	20.80	
	169	80-174		9.570	705.10	1.700	-210.000	20.80	
	170	80-209		9.140	746.40		-165.000	24.70	
	170	80-242		9.140	746.40		-165.000	24.70	
	171	80-233		9.460			-250.000	25.10	42.60
	171	80-243		9.460			-250.000	25.10	42.60
	172	80-208		10.180	807.00	2.300	-300.000	26.10	
	172	80-234		10.180	807.00	2.300	-300.000	26.10	
	173	81-61	9.440	9.520	776.00	0.200		41.70	46.20
	173	81-72	9.440	9.520	776.00	0.200		41.70	46.20
	174	82-47		9.520	744.00	0.510	-255.000	28.00	
	174	82-85		9.520	744.00	0.510	-255.000	28.00	
DC-14	175	80-3		8.350		3.100		18.90	15.40
	175	80-34		8.350		3.100		18.90	15.40
	176	80-16		8.100	258.00	0.270		16.70	19.10
	176	80-53		8.100	258.00	0.270		16.70	19.10
	177	80-47		7.650	281.88	0.190		20.00	22.00
	177	80-85		7.650	281.88	0.190		20.00	22.00
	178	80-69		9.410	353.60	0.160		19.30	24.30
	178	80-83		9.410	353.60	0.160		19.30	24.30
	179	80-55		9.660	390.00	0.120		19.60	
	179	80-99		9.660	390.00	0.120		19.60	
	180	80-36		9.220	351.70	0.160		23.80	
	180	80-89		9.220	351.70	0.160		23.80	
	181	80-2		9.440	396.00	0.160		17.70	26.10
	181	80-71		9.440	396.00	0.160		17.70	26.10
	182	80-136		8.840	315.80	0.150		24.10	
	182	80-144		8.840	315.80	0.150		24.10	
	182	80-199		8.840	315.80	0.150		24.10	
	183	80-105		8.800	325.90	0.200		23.50	28.60
	183	80-127		8.800	325.90	0.200		23.50	28.60
	183	80-189		8.800	325.90	0.200		23.50	28.60
	184	80-112		8.750	323.00	0.100	-120.000	28.30	30.60
	184	80-168		8.750	323.00	0.100	-120.000	28.30	30.60
	185	80-157		9.450	357.50	0.020	45.000	20.10	32.50
	185	80-183		9.450	357.50	0.020	45.000	20.10	32.50
	186	80-155		9.410	361.00	0.110	-215.000	30.70	34.00
	186	80-185		9.410	361.00	0.110	-215.000	30.70	34.00
	187	80-104		9.570	359.15	0.240	-120.000	24.70	35.10
	187	80-125		9.570	359.15	0.240	-120.000	24.70	35.10
	187	80-148		9.570	359.15	0.240	-120.000	24.70	35.10
	188	80-115		9.440	358.90	0.190	-210.000	30.30	36.50
	188	80-129		9.440	358.90	0.190	-210.000	30.30	36.50
	189	80-156		9.380	351.40	0.340	-225.000	34.50	

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DC-14	189	80-170		9.380	351.40	0.340	-225.000	34.50	
	189	80-195		9.380	351.40	0.340	-225.000	34.50	
	190	80-109		9.650	421.40	0.160	-300.000	36.20	
	190	80-117		9.650	421.40	0.160	-300.000	36.20	
	190	80-151		9.650	421.40	0.160	-300.000	36.20	
	191	80-213		9.690	757.40	0.450	-270.000	27.90	41.80
	191	80-225		9.690	757.40	0.450	-270.000	27.90	41.80
	191	80-236		9.690	757.40	0.450	-270.000	27.90	41.80
	192	81-20		9.610	1340.00	0.540	-350.000	22.00	
	192	81-22		9.610	1340.00	0.540	-350.000	22.00	
	193	81-16		9.590	1458.00	0.390	-280.000	19.80	54.90
	193	81-30		9.590	1458.00	0.390	-280.000	19.80	54.90
	194	81-44		9.720	1543.00	0.100	-295.000	14.20	55.50
	194	81-47		9.720	1543.00	0.100	-295.000	14.20	55.50
	195	81-141		9.740	1523.00				56.70
	196	81-21	9.680	9.390	724.00	0.480	-325.000	31.30	57.10
	196	81-29	9.680	9.390	724.00	0.480	-325.000	31.30	57.10
	197	81-63	9.720	9.700	1245.00	0.240	-385.000	36.40	57.10
	197	81-91	9.720	9.700	1245.00	0.240	-385.000	36.40	57.10
	197	81-99	9.720	9.700	1245.00	0.240	-385.000	36.40	57.10
	198	81-163	9.720	9.630	1382.00	0.540	-430.000	37.20	57.10
	198	81-90	9.720	9.630	1382.00	0.540	-430.000	37.20	57.10
	199	81-114	9.740	9.480	1441.00	0.140	-375.000	37.50	57.10
	199	81-138	9.740	9.480	1441.00	0.140	-375.000	37.50	57.10
	199	81-188	9.740	9.480	1441.00	0.140	-375.000	37.50	57.10
	200	82-31		9.640	1510.00	0.410	-418.000	28.50	57.10
	200	82-42		9.640	1510.00	0.410	-418.000	28.50	57.10
	200	82-8		9.640	1510.00	0.410	-418.000	28.50	57.10
	202	83-156	9.210	9.530	1550.00	0.500	-290.000	31.20	57.10
	202	83-197	9.210	9.530	1550.00	0.500	-290.000	31.20	57.10
	203	83-152	9.150		1559.00	0.350	-310.000	29.40	57.10
	203	83-193	9.150		1559.00	0.350	-310.000	29.40	57.10
	204	83-157	9.190	9.200	1553.00	0.250	-320.000	30.00	57.10
	204	83-179	9.190	9.200	1553.00	0.250	-320.000	30.00	57.10
	205	83-103	9.200	9.600	1559.00	0.340		29.70	57.10
	205	83-178	9.200	9.600	1559.00	0.340		29.70	57.10
	206	83-123	9.140	9.300	1576.00	0.350	-320.000	30.20	57.10
	206	83-183	9.140	9.300	1576.00	0.350	-320.000	30.20	57.10
	207	83-154	9.100	9.330	1572.00	0.350		30.20	57.10
	207	83-191	9.100	9.330	1572.00	0.350		30.20	57.10
	208	83-108	9.200		1573.00	0.370	-300.000	30.50	57.10
	208	83-150	9.200		1573.00	0.370	-200.000	30.50	57.10
	209	83-233	9.100	9.300	1570.00	0.350	-300.000	30.50	57.10
	209	83-266	9.100	9.300	1570.00	0.350	-300.000	30.50	57.10
	210	83-203	9.200	9.600	1584.00	0.500	-325.000	36.10	57.10
	210	83-261	9.200	9.600	1584.00	0.500	-325.000	36.10	57.10
DC-15	211	80-31		7.800	364.10	0.480		17.00	17.90
	211	80-56		7.800	364.10	0.480		17.00	17.90
	212	80-54		8.250	301.90	1.000		18.10	20.00

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DC-15	212	80-76		8.250	301.90	1.000		18.10	20.00
	213	80-57		8.060	179.50	0.170		20.60	23.70
	213	80-65		8.060	179.50	0.170		20.60	23.70
	214	80-87		8.270	477.00	16.000		19.70	26.80
	214	80-94		8.270	477.00	16.000		19.70	26.80
	215	80-137		9.420	419.50	0.800		24.70	29.50
	215	80-197		9.420	419.50	0.800		24.70	29.50
	216	80-130		9.310	450.00	0.260	-240.000	26.60	
	216	80-176		9.310	450.00	0.260	-240.000	26.60	
	216	80-999		9.310	450.00	0.260	-240.000	26.60	
	217	80-135		9.430	65900.00	0.210	-300.000	27.20	32.30
	217	80-149		9.430	65900.00	0.210	-300.000	27.20	32.30
	218	80-120		9.360	515.70	0.310	-140.000	23.60	33.40
	218	80-139		9.360	515.70	0.310	-140.000	23.60	33.40
	219	80-108		9.540	583.60	0.120	-380.000	27.70	36.20
	219	80-131		9.540	583.60	0.120	-380.000	27.70	36.20
	220	80-114		9.630	627.60	0.350	-420.000	29.00	
	220	80-193		9.630	627.60	0.350	-420.000	29.00	
	221	81-24		9.130	1070.00	0.100	-90.000	28.60	
	221	81-41		9.130	1070.00	0.100	-90.000	28.60	
	222	81-2		9.340	1148.00	1.300	70.000	20.20	
	222	81-36		9.340	1148.00	1.300	70.000	20.20	
	223	81-46		9.270	1119.00	0.620		24.10	47.60
	223	81-50		9.270	1119.00	0.620		24.10	47.60
	224	81-32		9.130	1248.00	0.120	-300.000	28.50	
	224	81-33		9.130	1248.00	0.120	-300.000	28.50	
	225	81-27	9.700	9.460	1246.00	0.330	-420.000	37.50	52.00
	225	81-74	9.700	9.460	1246.00	0.330	-420.000	37.50	52.00
	226	81-64	9.160	9.200	1771.00	17.000		23.30	54.70
	226	81-80	9.160	9.200	1771.00	17.000		23.30	54.70
	227	81-66	9.230	8.800	1340.00	4.100		32.80	55.30
	227	81-85	9.230	8.800	1340.00	4.100		32.80	55.30
	227	81-96	9.230	8.800	1340.00	4.100		32.80	55.30
	228	81-69	9.160	9.020	1334.00	1.200	-30.000	27.10	
	228	81-84	9.160	9.020	1334.00	1.200	-30.000	27.10	
	229	82-41		9.810	1192.00		-330.000	18.60	
	229	82-94		9.810	1192.00		-330.000	18.60	
DC-16A	230	81-109	8.690	8.320	494.00	0.230	-330.000	21.00	21.20
	230	81-167	8.690	8.320	494.00	0.230	-330.000	21.00	21.20
	231	82-17	8.040	7.250	293.00	0.180	-245.000	24.10	25.00
	231	82-55	8.040	7.250	293.00	0.180	-245.000	24.10	25.00
	232	82-45		8.860	340.00	0.360	-310.000	25.40	29.00
	232	82-93		8.860	340.00	0.360	-310.000	25.40	29.00
	233	82-19	9.380	9.140	795.00	1.000	-450.000	28.70	34.00
	233	82-88	9.380	9.140	795.00	1.000	-450.000	28.70	34.00
	234	82-140	9.090	9.430	878.00	0.520	-405.000	21.50	37.83
	234	82-188	9.090	9.430	878.00	0.520	-405.000	21.50	37.83
	235	82-124	9.050	9.390	697.00	0.400	-335.000	23.80	39.70
	235	82-172	9.050	9.390	697.00	0.400	-335.000	23.80	39.70

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
DC-16A	236	82-126	9.110	9.440	1236.00	5.400	-425.000	22.40	38.00
	236	82-143	9.110	9.440	1236.00	5.400	-425.000	22.40	38.00
	237	82-202		9.070	1230.00	0.500	-170.000	31.60	41.90
	237	82-228		9.070	1230.00	0.500	-170.000	31.60	41.90
	239	82-322	8.950	9.110	1673.00	0.140		34.20	44.17
	239	82-361	8.950	9.110	1673.00	0.140		34.20	44.17
	240	82-332						26.10	58.13
	240	82-358						26.10	58.13
	242	82-430	9.320	9.460	1738.00	0.360	-390.000	23.40	59.90
	242	82-473	9.320	9.460	1738.00	0.360	-390.000	23.40	59.90
	243	83-29	9.180		1746.00	0.510	-350.000	25.00	48.00
	243	83-41	9.180		1746.00	0.510	-350.000	25.00	48.00
DC-16B	244	83-147	7.200	7.280	288.00	0.300	-205.000	29.40	
	244	83-185	7.200	7.280	288.00	0.300	-205.000	29.40	
DC-16C	245	83-100	8.760	9.200				29.70	
	245	83-30	8.760	9.200				29.70	
	246	83-215	8.400	8.800	920.00	0.130		30.50	
	246	83-259	8.400	8.800	920.00	0.130		30.50	
DC-19C	247	84-53	8.500	8.600	941.00	0.350	-370.000		
	247	84-84	8.500	8.600	941.00	0.350	-370.000		
	248	84-40	9.000		942.00	0.870	-100.000		
	248	84-77	9.000		942.00	0.870	-100.000		
	249	84-29	8.750	8.850	1009.00	2.200	-250.000	24.40	
	249	84-73	8.750	8.850	1009.00	2.200	-250.000	24.40	
	250	84-18	9.050	8.950	888.00	2.300	-330.000	23.30	
	250	84-86	9.050	8.950	888.00	2.300	-330.000	23.30	
DC-20C	251	84-49	9.050	8.950	844.00	0.330	60.000		
	251	84-9	9.050	8.950	844.00	0.330	60.000		
DC-22C	252	84-105		9.150	639.00	1.600	-310.000		
	252	84-153		9.150	639.00	1.600	-310.000		
ENYEART	253	SITE-209		7.700	277.00				
	254	SITE-210		8.500	290.00				
	255	84-166	8.130	8.050	280.00	0.110	-210.000	22.00	
	255	84-184	8.130	8.050	280.00	0.110	-210.000	22.00	
FORD	257	SITE-206		7.800	291.00			23.90	
	258	SITE-207		8.000	295.00			24.20	
	259	SITE-219		8.000	300.00			22.80	
MCGEE	260	SITE-224		8.100	290.00				
	261	SITE-222		8.100	287.00			26.90	
	262	SITE-223		8.100	288.00			27.00	
	263	SITE-225		8.200	195.00				
	264	SITE-220		8.000	300.00			26.80	

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
MCGEE	265	82-52	6.880	7.660	283.00	0.180	-300.000	26.10	
	265	82-7	6.880	7.660	283.00	0.180	-300.000	26.10	
	266	80-64		8.130	278.00	0.290		26.30	
	266	80-88		8.130	278.00	0.290		26.30	
	267	81-73	8.110	7.860	280.00	0.280	-250.000	24.30	
	267	81-79	8.110	7.860	280.00	0.280	-250.000	24.30	
	268	81-54	8.090	7.690	281.00	0.120	-205.000	25.00	
	268	81-56	8.090	7.690	281.00	0.120	-205.000	25.00	
	269	82-11	6.600	7.680	280.00	0.160	-365.000	26.30	
	269	82-64	6.600	7.680	280.00	0.160	-365.000	26.30	
	270	82-105							
	270	82-164							
	270	82-183							
	271	82-263	7.370	7.700	271.00	0.150	-250.000	26.70	32.20
	271	82-283	7.370	7.700	271.00	0.150	-250.000	26.70	32.20
	272	82-325	7.100	8.110	283.00	0.190	-200.000	28.20	33.10
	272	82-397	7.100	8.110	283.00	0.190	-200.000	28.20	33.10
	273	82-424	7.400	7.450	284.00	0.250	-170.000	30.50	34.60
	273	82-474	7.400	7.450	284.00	0.250	-170.000	30.50	34.60
	274	82-436	8.110	7.800	288.00	0.100	-100.000	31.70	
	274	82-498	8.110	7.800	288.00	0.100	-100.000	31.70	
	275	83-32	7.650	7.560	281.00	0.250	-150.000	20.40	35.80
	275	83-63	7.650	7.560	281.00	0.250	-150.000	20.40	35.80
	276	83-27	7.600	8.160	288.00	0.270	-230.000	31.80	36.70
	276	83-83	7.600	8.160	288.00	0.270	-230.000	31.80	36.70
	277	83-113	7.980	8.000	282.00	0.250	-210.000	31.80	36.80
	277	83-188	7.980	8.000	282.00	0.250	-210.000	31.80	36.80
	278	83-323	9.400	9.400	388.00	0.200	-350.000	27.30	
	278	83-373	9.400	9.400	388.00	0.200	-350.000	27.30	
	279	83-331	8.900	9.050	380.00	0.720	-350.000	27.80	
	279	83-344	8.900	9.050	380.00	0.720	-350.000	27.80	
	280	83-460	9.250	9.450	395.00	0.390	-350.000	26.30	
	280	83-474	9.250	9.450	395.00	0.390	-350.000	26.30	
	281	83-417	9.400	9.400	388.00	0.230	-300.000	26.60	
	281	83-476	9.400	9.400	388.00	0.230	-300.000	26.60	
	282	83-513	9.550	9.500	524.00	0.540	-340.000		
	282	83-545	9.550	9.500	524.00	0.540	-340.000		
	283	84-24	9.310	9.450	582.00	1.100	-410.000		
	283	84-38	9.310	9.450	582.00	1.100	-410.000		
RRL-02	284	82-28	9.090	9.140	810.00	0.320	-160.000	6.50	31.60
	284	82-48	9.090	9.140	810.00	0.320	-160.000	6.50	31.60
	285	82-65	8.940	9.320	683.00	0.151	-385.000	21.80	32.50
	285	82-75	8.940	9.320	683.00	0.151	-385.000	21.80	32.50
	286	82-163	8.600	8.300	1408.00	11.000		29.10	43.30
	286	82-170	8.600	8.300	1408.00	11.000		29.10	43.30
	287	82-122	8.600	8.760	1856.00	0.280	-405.000	26.90	48.60
	287	82-192	8.600	8.760	1856.00	0.280	-405.000	26.90	48.60
	288	82-401	9.600	9.710	1616.00	0.570	-290.000	23.40	53.67
	288	82-479	9.600	9.710	1616.00	0.570	-290.000	23.40	53.67

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
RRL-02	289	84-43	9.600	9.600	1632.00	10.000	-365.000		
	289	84-7	9.600	9.600	1632.00	10.000	-365.000		
	290	82-364	9.380	9.410	1740.00	0.250	-220.000	29.40	56.90
	290	82-381	9.380	9.410	1740.00	0.250	-220.000	29.40	56.90
	291	82-309	9.300	9.340				25.90	58.83
	291	82-351	9.300	9.340				25.90	58.83
	292	82-413	9.750	9.780	1747.00	42.000	-300.000	22.30	56.20
	292	82-456	9.750	9.780	1747.00	42.000	-300.000	22.30	56.20
RRL-14	294	82-403	9.400	9.480	1634.00	0.530	-50.000	22.90	49.00
	294	82-489	9.400	9.480	1634.00	0.530	-50.000	22.90	49.00
811-E12A	298	80-61		8.150	347.80	0.120		15.50	18.80
	298	80-7		8.150	347.80	0.120		15.50	18.80
	299	80-138		8.040	356.00	0.140	-190.000	17.10	
	299	80-180		8.040	356.00	0.140	-190.000	17.10	

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
199-B4-4	300	SITE-41		7.600	310.00	0.000		39.10	
199-D5-12	301	SITE-80	8.000	7.700	335.00	4.200		24.20	
199-D8-3	302	SITE-72	7.800	7.800	320.00	2.000		32.50	
199-F5-1	303	SITE-82	7.900	7.800	228.00	0.800		20.60	
199-H4-3	304	SITE-81	8.000	7.900	3500.00	3.900		22.40	
199-K-19	305	SITE-83	8.000	8.100	235.00	0.700		22.20	
199-N-15	306	SITE-42		7.900	194.00			20.70	
299-E26-8	307	SITE-165	8.200	7.700	395.00				
299-E33-12	308	SITE-169	7.600	7.100	630.00				
399-1-3	309	SITE-43		8.000	330.00			18.90	
399-4-10	310	SITE-44		7.500	302.00			17.50	
399-8-4	311	SITE-140	8.000	7.600	310.00	2.000		16.60	
699-1-18	312	SITE-145	8.400	8.200	422.00	1.400		19.10	
699-10-E12	313	SITE-147	8.200	7.800	408.00	2.800		19.30	
699-11-45A	314	SITE-148	8.000	7.700	290.00	1.200		19.30	
699-13-1A	315	SITE-60	7.800	7.800	348.00			17.40	
699-14-3B	316	SITE-61	7.800	7.800	300.00	2.000		19.00	
	317	SITE-86	7.900	7.900	310.00	3.600		19.10	
699-15-15B	318	SITE-13		7.700	408.00	4.000			
	319	SITE-149	8.200	7.900	445.00	14.000		19.40	
699-15-26	320	SITE-24		7.900	445.00			18.50	
	321	SITE-150	8.200	7.900	445.00	0.800		18.80	
699-17-5	322	SITE-18		7.800	457.00	31.000		16.20	
	323	SITE-151	8.200	7.900	505.00	7.400		19.00	
699-19-43	324	SITE-48		7.800	380.00			18.10	
	325	SITE-121	7.900	7.600	400.00	0.800		17.50	
699-2-3	326	SITE-1		7.900	418.00	1.000			
699-2-33	327	SITE-85	7.800	7.800	325.00	44.000		19.20	

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
699-2-33	328	SITE-146	8.200	7.700	335.00	4.500		19.30	
699-20-20	329	SITE-25		7.900	460.00			17.50	
699-20-E5-0	330	SITE-49		8.000	298.00			19.30	
699-24-33	331	SITE-28		7.900	455.00			19.40	
699-24-46	332	SITE-122	7.900	7.900	325.00	28.000		20.50	
699-25-55	333	SITE-100	8.000	8.000		3.000		18.10	
699-26-15	334	SITE-26		8.000	461.00			17.20	
699-27-4	335	SITE-101	8.000	8.000	349.00	24.000		17.50	
699-27-8	336	SITE-5		8.000	486.00	1.000		16.50	
	337	SITE-30		8.000	468.00	1.000		16.30	
	338	SITE-50		7.800	485.00			16.50	
	339	SITE-76	7.900	7.900	450.00			16.40	
	340	SITE-87	7.900	7.900	462.00	0.400		16.60	
699-28-40	341	SITE-68	7.900	7.900	418.00	1.000		19.20	
699-31-31	342	SITE-69	7.900	7.900	454.00	1.000		20.50	
	343	SITE-102	8.100	8.000		4.100		19.40	
699-31-53B	344	SITE-88	7.800	8.000	382.00	1.600		21.10	
699-32-22	345	SITE-17		7.700	533.00	4.000		18.50	
	346	SITE-27		8.000	515.00	1.000		18.20	
	347	SITE-51		7.900	522.00	1.000		18.40	
	348	SITE-65	7.800	7.900	526.00	2.000		18.40	
	349	SITE-89	7.900	8.000	506.00	0.400		18.70	
699-32-70	350	SITE-70	7.800	7.700	340.00	3.000		20.80	
	351	SITE-90	7.800	7.800	340.00	140.000		20.80	
	352	SITE-152	8.100	7.700	345.00	8.000		21.20	
699-32-72	353	SITE-35		7.800	297.00	28.000		20.50	
699-32-77	354	SITE-103	8.200	8.000	280.00	0.500		16.60	
699-33-42	355	SITE-12		7.700	448.00	39 000			
	356	SITE-29		7.900	425.00	5.000		19.60	
	357	SITE-52		7.800	420.00			19.80	
	358	SITE-67	7.600	7.900	415.00	2.000		19.70	
	359	SITE-91	7.900	7.900	410.00	0.800		20.00	
699-33-56	360	SITE-8		7.700	429.00	9.000			

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MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
699-33-56	361	SITE-40		7.800	416.00	4.000		21.70	
	362	SITE-53		7.700	420.00	1.000		21.50	
	363	SITE-62	7.800	7.800	430.00	4.000		21.20	
	364	SITE-92	7.500	7.800	420.00	1.600		21.50	
699-34-39A	365	SITE-93	7.900	7.900	405.00	1.300		21.50	
699-34-42	366	SITE-33		7.900	433.00	1.000		20.60	
	367	SITE-153	8.200	7.900	375.00	0.800		20.30	
699-34-51	368	SITE-66	7.700	7.800	424.00			21.10	
699-35-66	369	SITE-77	7.900	7.800	400.00	25.000		21.20	
	370	SITE-94	8.000	7.900	404.00	0.900		21.20	
699-35-70	371	SITE-36		7.700	489.00	10.000		20.40	
699-35-78	372	SITE-54		8.000	241.00	1.000		15.00	
699-35-9	373	SITE-31		8.000	362.00	1.000		17.30	
	374	SITE-104	8.100	7.900	380.00	1.300		17.50	
699-36-61A	375	SITE-95	8.000	7.800	395.00	0.900		22.20	
699-37-43	376	SITE-34		8.000	367.00			21.00	
	377	SITE-173	7.800	7.750	1150.00			21.00	
699-37-82A	378	SITE-105	10.400	10.700	382.00	7.400		18.00	
699-38-70	379	SITE-37		7.600	850.00	1.000		20.70	
699-4-E6	380	SITE-47	8.000		352.00			17.00	
699-40-1	381	SITE-10		7.700	357.00	4.000			
	382	SITE-106	8.100	8.100	390.00	1.000		17.30	
699-40-33	383	SITE-55		8.000	324.00	2.000		18.10	
699-40-62	384	SITE-56		7.700	405.00			21.40	
699-41-23	385	SITE-15		7.700	507.00	2.000		17.70	
	386	SITE-113	8.200	8.000	460.00	8.100		18.00	
699-42-12	387	SITE-2		8.000	440.00	1.000		17.50	
	388	SITE-155	8.200	7.900	450.00	1.900		17.60	
699-42-2	389	SITE-154	8.200	7.900	395.00	1.000		17.80	
699-42-40A	390	SITE-174	7.900	7.950	395.00				

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
699-42-40C	391	SITE-175	7.800						
699-42-42	392	SITE-114	8.000	8.000	447.00	0.700		17.20	
699-43-88	393	SITE-123	7.800	7.700	365.00	170.000		18.00	
699-45-42	394	SITE-87		8.000	285.00	2.000		18.80	
699-45-69	395	SITE-96	8.000	8.000	420.00	3.400		20.00	
699-46-21	396	SITE-75	7.900	8.000	388.00	1.000		17.20	
	397	SITE-124	8.100	7.800	425.00	1.600		16.90	
699-46-5	398	SITE-156	8.200	7.800	410.00	1.000		17.70	
699-47-55A	399	SITE-182	8.200	8.150	850.00				
699-48-18	400	SITE-125	8.000	7.900	370.00	7.500		17.20	
699-48-71	401	SITE-59		7.900	317.00	3.000		19.30	
699-49-55	402	SITE-9		8.100	601.00	10.000			
	403	SITE-39		8.200	580.00	4.000		17.00	
	404	SITE-58		8.200	635.00	2.000		17.40	
	405	SITE-78	8.700	9.400	612.00	20.000		17.60	
	406	SITE-97	8.400	9.200	600.00	0.900		18.20	
	407	SITE-126	9.500	10.000	601.00	14.000		17.00	
	408	SITE-157	8.800	8.800	632.00	16.000		18.30	
699-49-57	409	SITE-38		7.600	927.00			16.40	
699-49-79	410	SITE-20		7.600	388.00	2.000			
699-50-28B	411	SITE-43	7.800	7.800	290.00	1.000		19.20	
699-50-42	412	SITE-14		7.800	330.00	13.000			
	413	SITE-115	7.800	7.700	212.00	32.000		16.70	
699-50-8	414	SITE-64	7.800	8.000	390.00			18.20	
699-50-85	415	SITE-127	8.100	8.000	333.00	2.800		20.00	
699-51-63	416	SITE-116	8.000	8.000	294.00	0.500		17.80	
699-53-103	417	SITE-160		8.000	285.00			26.80	
699-55-50C	418	SITE-79	8.000	7.900	230.00	1.000		16.40	
	419	SITE-128	8.000	7.900	235.00	1.000		16.80	
	420	SITE-193	8.000	7.650	220.00			16.50	

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
699-55-76	421	SITE-71	8.000	8.500	350.00	150.000		17.70	
	422	SITE-117	9.000	9.100	294.00	3.800		17.90	
	423	SITE-129	7.800	7.700	255.00	6.100		17.00	
699-55-89	424	SITE-118	8.100	8.100	304.00	1.700		17.70	
699-56-53	425	SITE-194	8.400	7.060	260.00			14.60	
	426	SITE-195	8.400	7.250				14.40	
699-57-25A	427	SITE-119	8.100	8.100	312.00	1.100		18.30	
699-57-83	428	SITE-130	7.900	7.700	285.00	2.800		17.30	
699-59-38	429	SITE-107	8.200	8.200	248.00	0.600		17.60	
699-60-57	430	SITE-198	8.100	7.950	375.00			18.50	
699-62-31	431	SITE-131	7.600	7.300	338.00	16.000		17.50	
699-63-25A	432	SITE-132	8.000	7.800	515.00	1.100		16.80	
699-63-90	433	SITE-74	7.900	7.800	320.00	1.000		17.40	
	434	SITE-133	8.000	7.800	325.00	1.500		17.00	
699-64-27	435	SITE-158	8.100	7.800	775.00	2.400		17.70	
699-65-50	436	SITE-73	8.100	8.000	272.00	1.000			
	437	SITE-134	8.100	8.000	280.00	1.100		18.00	
699-66-39	438	SITE-135	9.200	9.600	375.00	1.400		17.50	
699-66-58	439	SITE-136	8.100	7.900	286.00	1.400		16.90	
699-66-64	440	SITE-137	7.800	7.900	283.00	2.000		17.40	
699-69-38	441	SITE-6		7.500	704.00	1.000		14.50	
699-71-30	442	SITE-108	8.100	7.800	571.00	2.600		16.70	
699-71-52	443	SITE-138	7.800	7.900	328.00	100.000		17.50	
699-72-73	444	SITE-109	8.000	7.900	285.00	14.000		18.70	
699-72-88	445	SITE-98	7.800	7.500	280.00	0.400		21.20	
699-77-36	446	SITE-110	7.900	7.800	830.00	0.700		16.60	
699-78-62	447	SITE-111	8.100	8.100	342.00	0.900		16.50	
699-8-17	448	SITE-23		8.000	436.00	10.000		18.40	

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
699-8-25	449	SITE-32		8.000	430.00	1.000		18.50	
699-8-32	450	SITE-19		7.800	361.00	3.000			
699-81-58	451	SITE-159	8.200	8.000	214.00	5.300		16.60	
699-83-47	452	SITE-112	8.100	8.100	326.00	9.100		17.10	
699-87-55	453	SITE-99	8.200	8.000	265.00	0.300		16.90	
699-9-E2	454	SITE-16		7.800	322.00	2.000		17.90	
699-90-45	455	SITE-139	7.600	7.400	345.00	12.000		16.50	
699-HANFORD-19	456	SITE-3	7.900		321.00			17.50	
699-811-E12A	457	SITE-4		8.000	352.00	1.000		17.50	
699-812-3	458	SITE-45		7.900	395.00	2.000		17.30	
	459	SITE-143	8.300	7.900	394.00	3.500		17.70	
699-819-E13	460	SITE-120	7.900	7.900	395.00	1.600		17.10	
699-829-E12	461	SITE-21		7.800	395.00			16.70	
699-83-25	462	SITE-7		7.900	513.00	3.000		18.50	
	463	SITE-142	8.200	7.800	540.00	1.200		18.90	
699-83-E12	464	SITE-22		9.400	223.00	4.000		16.80	
	465	SITE-141	8.400	8.300	255.00	1.600			
699-830-E15A	466	SITE-144	7.900	7.500	450.00	0.500		16.60	
699-86-E4D	467	SITE-11		7.500	416.00	5.000			
699-88-19	468	SITE-46		7.800	420.00			18.00	
	469	SITE-84	8.100	8.000	235.00	0.600		18.20	
RRL-06A	470	82-35	7.130					17.90	
	470	82-40	7.130					17.90	

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
BENNETT SPRING	471	SITE-218		7.500	230.00			13.00	
	472	79-13		7.150	220.30			11.20	
BENSON SPRING	473	SITE-217	7.300	7.300	200.00			13.50	
BUTLER SPRING	474	79-1		6.600	201.10			12.00	
	474	79-50		6.600	201.10			12.00	
GULCH SPRING	475	84-359	7.550	7.650	431.00			15.20	
	475	84-383	7.550	7.650	431.00			15.20	
JUNIPER SPRING	476	SITE-215	8.300	8.300	260.00			20.00	
	477	79-2		7.300	330.00			17.30	
	477	79-43		7.300	330.00			17.30	
	478	81-115	7.930		334.00	0.180			
	478	81-141	7.930		334.00	0.180			
	479	83-305	7.900	7.750	353.00	0.120	150.000	17.30	
	479	83-372	7.900	7.750	353.00	0.120	150.000	17.30	
LOWER SNIVELY SPRING	480	79-19		7.600	220.00			14.20	
	480	79-34		7.600	220.00			14.20	
	481	82-362		7.340	221.00	0.360	140.000	14.90	
	481	82-377		7.340	221.00	0.360	140.000	14.90	
	482	83-311	7.850	7.750	231.00	0.210	170.000	14.70	
	482	83-396	7.850	7.750	231.00	0.210	170.000	14.70	
LOZIER SPRING	483	79-44		7.350	212.84			12.50	
	483	79-6		7.350	212.84			12.50	
	484	81-116	7.500		215.00	0.390			
	484	81-186	7.500		215.00	0.390			
	485	83-316	7.200	7.650	221.00	0.750	125.000	12.40	
	485	83-343	7.200	7.650	221.00	0.750	125.000	12.40	
MAIDEN SPRING	486	79-67						14.70	
	486	79-96						14.70	
	487	83-420	7.650	7.450	179.00	0.280	130.000	12.80	
	487	83-435	7.650	7.450	179.00	0.280	130.000	12.80	
OBSERVATORY SPRING	488	84-310	7.400	7.550	220.00	0.380	140.000	13.00	
	488	84-392	7.400	7.550	220.00	0.380	140.000	13.00	
	489	84-329							
	489	84-366							
	490	81-119		7.860	219.00	0.210			
	490	81-157		7.860	219.00	0.210			
	491	83-433	7.850	7.850	211.00	0.130	-30.000	12.40	
	491	83-461	7.850	7.850	211.00	0.130	-30.000	12.40	
RAILROAD SPRING	492	79-76		8.200	248.98			18.70	
	492	79-81		8.200	248.98			18.70	

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
RATTLESNAKE SPRING	493	BITE-216	7.700	7.700	275.00			16.00	
	494	79-87		7.300	410.20			16.70	
	494	79-88		7.300	410.20			16.70	
	495	83-412	7.550	7.550	395.00	0.340	130.000	21.00	
	495	83-466	7.550	7.550	395.00	0.340	130.000	21.00	
SNIVELY SPRING	496	79-37		6.750	193.60			13.40	
	496	79-49		6.750	193.60			13.40	
SULPHUR SPRINGS	497	79-29		6.900	214.90			14.10	
	497	79-36		6.900	214.90			14.10	
	498	83-409	7.500	7.650	235.00	0.340	100.000	16.00	
	498	83-442	7.500	7.650	235.00	0.340	100.000	16.00	
UNNAMED SPRING #02	499	79-75		7.850	206.00			12.00	
	499	79-93		7.850	206.00			12.00	
UNNAMED SPRING #16	500	79-73		7.000	197.30			13.20	
	500	79-82		7.000	197.30			13.20	
UNNAMED SPRING #26	501	79-54		6.750	279.14			14.80	
	501	79-98		6.750	279.14			14.80	
UNNAMED SPRING #29	502	79-16	7.390	7.000	249.25				
	502	79-24	7.390	7.000	249.25				
UPPER SNIVELY SPRING	503	79-69		7.650	186.92			14.10	
	503	79-71		7.650	186.92			14.10	
	504	81-126	7.720		195.00	0.260			
	504	81-200	7.720		195.00	0.260			
	505	83-503	7.950	8.050	188.00	0.300	-20.000	15.00	
	505	83-547	7.950	8.050	188.00	0.300	-20.000	15.00	
WARM SPRING	506	84-358	7.600	7.950	308.00			22.50	
	506	84-371	7.600	7.950	308.00			22.50	

MAJOR INORGANICS FOR SURFACE

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
COL RIV @ HANFORD TS	507	SITE-221	8.700	8.700	115.00			22.20	
COL RIV @ VERNITA BR	508	84-330							
	508	84-361							
	509	84-311	8.290	8.000	117.00	1.500	160.000	20.70	
	509	84-356	8.290	8.000	117.00	1.500	160.000	20.70	
COL RIVER @ DC-14	510	83-211	7.500	6.800	150.00	0.300		6.90	
	510	83-258	7.500	6.800	150.00	0.300		6.90	
COLD CREEK	513	84-317							
	513	84-336							
	514	84-302	8.500	8.100	308.00	1.600		19.00	
	514	84-345	8.500	8.100	308.00	1.600		19.00	

MAJOR INORGANICS FOR PRECIPITATION

LOCATION	REC NUM	SAMPLE NUMBER	LAB PH	FIELD PH	SPECIFIC COND	TURBID	ORP	SAMPLE TEMP	INSITU TEMP
STATION 03	516	82-51							
STATION 04	530	82-61							
STATION 07	546	82-92							
STATION 14	560	82-20							
STATION 17	576	82-70							
STATION 20	593	82-58							
	594	82-74							
STATION 25	609	82-83							
	610	82-66							
STATION 26	628	82-91							
	629	82-98							

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
299-E16-1	1	SITE-161	28.000	10.900	15.000	8.900
	2	SITE-162	30.000	10.200	15.000	9.200
	3	SITE-163	31.000	10.200	28.000	9.600
	4	SITE-164	31.000	10.200	26.000	9.900
299-E26-8	5	SITE-166	20.000	10.400	19.000	8.200
	6	SITE-167	18.000	9.900	21.000	9.200
	7	SITE-168	19.000	9.900	19.000	9.200
299-E33-12	8	SITE-170	17.000	8.600	14.000	7.200
	9	SITE-171	17.000	8.300	18.000	7.700
	10	SITE-172	17.000	8.000	19.000	8.500
699-42-40C	11	SITE-177	35.000	14.400	10.000	3.700
	12	SITE-178	33.000	13.700	7.500	4.500
	13	SITE-179	35.000	13.600	10.000	4.600
	14	SITE-180	36.000	12.700	18.700	4.500
	15	SITE-176	24.600	6.400	26.600	11.800
699-47-50	16	SITE-205	20.390	7.390	55.310	14.660
	17	SITE-181	22.000	7.200	46.000	18.500
699-49-55B	18	SITE-183	11.000	6.900	38.000	11.900
	19	SITE-184	12.000	6.800	38.000	12.200
	20	SITE-185	12.000	6.800	38.000	12.400
699-50-45	21	SITE-203	16.390	5.710	30.020	10.210
	22	SITE-186	17.000	6.000	92.000	15.700
699-50-48	23	SITE-204	30.390	10.990	22.080	4.230
	24	SITE-187	33.000	11.000	19.000	6.200
699-51-46	25	SITE-201	20.000	9.310	32.020	4.230
	26	SITE-188	21.000	9.200	19.000	2.200
699-52-46A	27	SITE-202	16.510	4.230	33.630	9.190
	28	SITE-189	16.000	7.300	24.000	10.500
699-52-48	29	SITE-199	51.700	6.690	14.430	3.060
	30	SITE-190	50.000	6.400	6.200	1.900
699-53-50	31	SITE-200	20.390	7.120	28.980	8.630
	32	SITE-191	21.000	7.300	30.000	10.900
699-54-57	33	SITE-192	2.300	7.200	25.000	11.600
699-56-53	34	SITE-196	21.000	6.800	38.000	13.200
	35	SITE-197	21.000	6.600	38.000	13.500
D8-01	36	CP73	94.800	12.700	2.000	0.550

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
DB-01	36	CP82	96.900	13.000	1.300	0.410
	38	B1-15				
	38	B1-19	101.000	13.200	1.780	0.490
	39	B1-65	101.000	16.000	0.490	0.150
	39	B1-70	100.000	15.900	0.500	0.150
	40	B2-27	99.700	15.300	0.430	0.100
	40	B2-87	100.000	15.300	0.490	< 0.100
DB-02	43	CP74	103.300	12.200	1.100	0.350
	43	CP83	106.800	12.200	1.200	0.370
	44	CP123	107.700	13.500	1.500	0.450
	46	B1-11	98.700	17.000	0.740	0.290
	46	B1-13	99.400	17.300	0.750	0.360
	47	B1-10	103.000	16.300	0.590	0.090
	47	B1-7	104.000	16.500	0.600	0.090
DB-04	48	CP37	88.000	11.000	1.500	0.300
	49	CP75	84.000	11.100	0.500	0.140
	49	CP84	84.000	11.100	0.500	0.140
	50	CP116	77.800	10.600	0.560	0.160
	51	CP117	84.800	11.600	0.600	0.180
DB-05	52	CP76	90.500	12.600	1.400	0.520
	52	CP85	94.400	12.900	1.400	0.540
	53	CP112	95.600	14.000	1.460	0.460
	54	CP113	98.400	14.600	1.400	0.430
DB-07	56	CP77	117.000	13.300	1.400	0.120
	56	CP86	121.800	13.900	1.400	0.120
	57	CP121	118.400	14.200	1.600	0.090
	59	B3-413	117.000	12.600	1.460	< 0.100
	59	B3-448	114.000	12.300	1.430	< 0.100
DB-09	60	CP54	73.300	11.300	0.400	0.100
	61	CP59	71.200	11.000	0.500	0.120
	62	CP78	72.900	11.200	0.500	0.110
	62	CP87	76.600	11.090	0.600	0.120
	63	CP114	74.300	12.000	0.560	0.120
	64	CP115	75.100	12.200	0.560	0.130
	66	B3-410	70.900	10.520	0.450	< 0.100
	66	B3-472	71.000	10.500	0.450	< 0.100
DB-10	67	CP79	98.700	9.500	1.900	0.220
	67	CP88	102.500	9.400	1.700	0.220
DB-11	72	CP53	31.800	9.600	14.300	9.980
	72	CP56	32.800	9.800	14.600	10.200
	73	CP61	33.600	9.900	14.200	7.200
	73	CP64	34.200	10.100	14.600	7.400
	74	CP80	34.500	10.100	14.700	7.490

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
DB-11	74	CP89	35.000	11.000	15.800	8.020
	75	81-57	33.300	9.920	15.300	7.500
DB-12	76	63-95	16.800	7.100	25.300	13.500
	77	CP65	37.800	7.700	21.800	12.370
	78	CP66	36.000	7.900	20.100	11.880
	79	CP67	33.000	10.700	17.700	10.290
	80	CP68	39.100	10.300	15.500	9.000
	81	81-25	31.400	9.240	18.800	10.300
	81	81-42	31.500	9.310	18.900	10.300
DB-13	82	CP69	18.540	6.200	32.200	12.400
	83	CP70	22.300	6.200	31.400	11.780
	84	CP71	26.700	7.200	22.100	9.380
	85	CP72	26.700	7.200	21.600	9.250
	86	CP91	62.540	8.800	6.400	1.230
	87	CP92	63.900	14.680	10.900	0.950
	88	CP96	70.700	10.500	10.300	2.400
	89	CP95	67.100	11.100	10.100	2.520
	90	CP97A	64.200	11.900	10.500	2.710
	90	CP97B	63.600	11.500	10.300	2.680
	92	83-404	54.200	10.100	9.000	2.030
	92	83-455	55.000	10.300	9.080	2.020
DB-14	93	CP93	17.000	6.400	42.000	15.750
	93	CP94	17.100	6.400	42.900	15.930
	94	CP98	32.500	7.200	20.100	7.690
	95	CP99	31.200	8.000	21.600	8.730
	96	CP100	40.450	7.800	14.090	5.230
	97	CP101	40.600	7.800	14.020	5.200
	98	CP102	70.800	10.600	1.390	0.230
	99	CP103	67.900	10.000	2.170	0.710
	100	CP119	75.400	11.700	2.700	0.790
	101	81-139	137.000	17.600	2.030	< 0.020
	101	81-162	130.900	16.370	1.910	< 0.020
DB-15	102	79-17	44.400	10.400	18.900	4.900
	102	79-4	42.000	11.600	19.600	5.100
	103	79-20	78.400	7.120	2.360	0.390
	103	79-35	80.700	7.050	2.290	0.390
	104	79-27	83.000	8.170	2.040	0.390
	104	79-33	82.100	8.160	2.000	0.400
	105	79-15	89.900	10.600	1.620	0.460
	105	79-46	90.700	10.600	1.630	0.470
	106	79-39	97.100	10.600	1.900	0.460
	106	79-8	97.600	10.800	1.900	0.470
	107	79-31	91.800	11.000	1.900	0.420
	107	79-5	93.900	11.100	1.930	0.430
	109	79-51	171.000	14.800	2.080	0.060
	109	79-61	170.000	14.300	1.970	0.070

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
DB-15	110	79-74	179.000	15.400	2.980	0.820
	110	79-85	176.000	15.600	3.040	0.550
	111	79-80	171.000	15.800	1.500	0.340
	111	79-99	170.000	14.700	1.900	0.300
	112	79-62	155.000	14.500	2.200	0.240
	112	79-84	160.000	17.000	2.400	0.300
	113	79-90	168.000	14.700	1.110	0.230
	113	79-95	164.000	16.600	2.700	0.400
	114	80-35	170.000	18.600	4.300	2.200
	114	80-41	169.000	18.100	3.900	2.000
	115	80-24	163.000	19.300	1.300	0.060
	115	80-74	158.000	19.200	1.300	0.060
	116	80-42	162.000	19.200	1.400	0.190
	116	80-77	161.000	18.300	1.400	0.180
	117	80-1	164.000	17.700	1.300	0.110
	117	80-51	164.000	17.600	1.200	0.100
DC-01	118	SITE-230	60.000	8.800	4.700	1.200
	119	SITE-226	79.000	8.000	2.200	0.300
	120	SITE-227	124.000	9.600	2.000	0.400
	121	SITE-228	142.000	10.000	2.400	0.100
	122	SITE-229	141.000	11.000	2.500	0.100
	123	SITE-231	77.000	8.400	2.200	0.300
	124	SITE-232	79.000	7.800	2.100	0.300
	125	SITE-233	90.000	9.900	1.700	0.400
	126	SITE-234	114.000	14.000	1.700	0.400
	127	SITE-235	164.000	10.000	0.900	0.400
	128	SITE-236	177.000	12.000	5.800	0.100
	129	SITE-237	163.000	15.000	5.000	0.100
	130	SITE-238	87.000	8.000	1.200	0.200
	131	SITE-239	182.000	3.300	0.800	
	132	SITE-240	181.000	3.900	0.700	0.100
	133	SITE-241	176.000	5.900	0.600	0.100
	134	SITE-242	166.000	4.700	0.200	0.100
	135	SITE-243	134.000	3.000	0.200	
DC-02A	136	80-25	287.000	19.900	55.700	11.700
	136	80-4	263.000	17.100	35.300	7.400
	137	SITE-213	181.000	3.200	0.260	
DC-03	138	80-27	4410.000	739.000	383.000	1.310
	138	80-81	4330.000	734.000	337.000	0.150
DC-05	139	79-30	270.000	23.900	13.000	0.110
	139	79-32	286.000	23.100	12.600	0.090
DC-06	140	80-147	229.000	3.780	1.320	0.050
	140	80-161	229.000	3.900	1.330	0.060
	141	80-22	233.000	13.300	3.700	1.140
	141	80-72	233.000	13.700	4.500	1.150

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA		MG
DC-06	142	BITE-214	233.000	3.200			
	143	80-201	217.000	3.260	1.170	<	0.010
	143	80-238	214.000	3.560	1.270		0.020
	144	80-186	350.000	15.900	4.510		0.170
	144	80-191	365.000	16.300	4.320		0.170
	145	80-13	432.000	22.100	6.500		0.120
	145	80-58	445.000	22.600	6.300		0.140
	146	79-59	300.000	7.300	2.000		0.170
	146	79-97	281.000	7.400	1.900		0.170
	147	81-45	270.000	6.180	1.600		0.030
	147	81-8	269.000	6.200	1.670		0.030
	148	80-118	310.000	6.720	1.660		0.010
	148	80-133	310.000	6.500	1.490		0.010
	149	80-15	361.000	4.060	2.140		0.025
	149	80-70	368.000	4.200	2.240		0.025
	150	81-76	359.000	3.350	2.640	<	0.001
	150	81-82	360.000	3.380	2.700	<	0.010
	151	80-29	209.100	1.650	0.950		0.006
	151	80-37	218.000	0.340	0.970		0.006
	152	79-57	212.000	1.490	1.120		0.008
	152	79-58	208.000	2.400	1.200		0.010
	153	80-45	242.000	1.900	0.950	<	0.005
	153	80-75	241.000	1.900	0.930	<	0.005
DC-07	154	82-23	235.000	3.060	3.730	<	0.100
	154	82-56	226.000	2.810	3.820	<	0.100
	155	82-10	259.000	3.330	3.460	<	0.100
	155	82-33	258.000	3.310	3.470	<	0.100
	156	80-39	133.000	5.200	2.900		0.220
	156	80-98	134.000	5.000	2.800		0.210
	157	80-11	199.000	5.000	2.400		0.060
	157	80-19	198.000	5.100	2.400		0.060
	158	79-52	264.000	3.700	2.900		0.220
	158	79-55	263.000	3.600	2.800		0.220
	159	80-103	312.000	8.650	7.280		1.200
	159	80-163	303.000	4.820	5.250		1.240
	160	80-178	416.000	5.800	4.540		0.018
	160	80-188	433.000	5.500	4.600		0.020
	161	80-177	438.000	6.080	11.000		0.910
	161	80-196	420.000	6.250	17.700		1.200
DC-12	162	80-62	142.000	15.200	1.080		0.090
	162	80-80	145.000	15.100	1.090		0.100
	163	80-100	123.000	13.800	1.310		0.046
	163	80-63	123.000	16.300	1.380		0.052
	164	80-73	126.000	13.800	1.600		0.098
	164	80-97	123.000	13.700	1.560		0.094
	165	80-32	244.000	26.500	3.880		0.180
	165	80-68	242.000	26.100	3.780		0.180
	166	80-23	135.000	17.100	1.540		0.120

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
DC-12	166	80-82	135.000	17.400	1.520	0.120
	167	80-102	135.000	16.300	1.160	0.076
	167	80-124	131.000	16.300	1.120	0.070
	168	80-101	143.000	15.700	2.280	0.760
	168	80-169	148.000	16.100	2.060	0.710
	169	80-143				
	169	80-174	148.000	15.000	1.170	0.051
	170	80-209	165.000	13.000	1.400	0.050
	170	80-242	169.000	12.500	1.400	0.050
	171	80-233	138.000	13.000	1.640	0.160
	171	80-243	139.000	13.700	1.770	0.170
	172	80-208	159.000	16.000	5.000	0.051
	172	80-234	157.000	15.700	4.960	0.051
	173	81-61	161.000	7.620	1.070	< 0.020
	173	81-72	163.000	7.580	1.050	0.010
	174	82-47	166.000	7.530	1.280	< 0.100
	174	82-85	167.000	7.610	1.280	< 0.100
DC-14	175	80-3	58.500	9.950	9.590	1.870
	175	80-34	58.300	9.950	9.000	1.780
	176	80-16	49.800	13.400	6.700	1.470
	176	80-53	48.800	13.100	6.500	1.440
	177	80-47	30.500	12.000	15.100	2.470
	177	80-85	31.900	13.000	16.000	2.600
	178	80-69	78.000	13.100	1.450	0.077
	178	80-83	79.000	12.800	1.460	0.077
	179	80-55	83.200	13.100	4.670	0.140
	179	80-99	83.300	13.300	4.600	0.140
	180	80-36	81.800	12.200	0.950	0.081
	180	80-89	83.500	13.100	0.960	0.081
	181	80-2	79.400	12.800	7.000	0.260
	181	80-71	79.600	12.700	7.030	0.260
	182	80-136	64.000	20.000	2.440	0.250
	182	80-144	65.600	20.400	2.740	0.290
	182	80-199				
	183	80-105				
	183	80-127	65.500	22.100	3.530	0.300
	183	80-189	64.500	20.600	3.420	0.290
	184	80-112	62.700	21.300	3.190	0.210
	184	80-168	61.300	20.400	3.150	0.200
	185	80-157	72.500	13.100	3.990	0.380
	185	80-183	71.900	13.200	4.100	0.400
	186	80-155	76.100	11.900	1.170	0.053
	186	80-185	79.200	12.700	1.230	0.054
	187	80-104	79.400	12.200	1.600	0.080
	187	80-125	85.300	13.100	2.300	0.011
	187	80-148				
	188	80-115	73.200	11.300	0.950	0.020
	188	80-129	74.700	11.800	1.010	0.020
	189	80-156	79.300	13.600	0.800	0.010

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA		MG
DC-14	189	80-170	78.200	14.100	0.860		0.020
	189	80-195					
	190	80-109					
	190	80-117	114.000	11.700	0.710		0.020
	190	80-151	116.000	11.500	0.720		0.020
	191	80-213	148.000	9.600	1.250		0.050
	191	80-225					
	191	80-236	151.000	9.620	1.320		0.050
	192	81-20	264.000	18.000	3.820		0.100
	192	81-22	270.000	18.400	3.890		0.100
	193	81-16	316.000	8.260	4.250		0.040
	193	81-30	316.000	8.080	4.140		0.040
	194	81-44	325.000	8.100	4.520		0.090
	194	81-47					
	195	81-141	344.000	7.320	1.820	<	0.087
	196	81-21	162.000	9.100	1.890		0.030
	196	81-29	162.000	9.010	1.910		0.030
	197	81-63					
	197	81-91	267.000	6.600	1.670		0.070
	197	81-99	265.000	6.560	1.660		0.080
	198	81-163	294.000	6.380	1.660		0.039
	198	81-90	298.000	6.510	1.670		0.040
	199	81-114					
	199	81-138	306.000	6.300	1.540	<	0.025
	199	81-188	303.000	6.290	1.560	<	0.025
	200	82-31					
	200	82-42	323.000	5.770	1.300	<	0.100
	200	82-8	316.000	5.560	1.270	<	0.100
	202	83-156	337.000	5.810	1.290		0.009
	202	83-197	336.000	5.780	1.270	<	0.100
	203	83-152	336.000	5.730	1.560		0.010
	203	83-193	332.000	5.810	1.540	<	0.100
	204	83-157	338.000	5.900	1.320		0.009
	204	83-179	337.000	5.880	2.070	<	0.100
	205	83-103	327.000	5.690	1.280	<	0.100
	205	83-178	328.000	5.710	1.280		0.009
	206	83-123	331.000	5.850	1.290	<	0.100
	206	83-183	330.000	5.880	1.290		0.009
	207	83-154	336.000	5.730	1.320		0.011
	207	83-191	335.000	5.760	1.300	<	0.100
	208	83-108	334.000	5.680	1.290	<	0.100
	208	83-150	335.000	5.770	1.410		0.010
	209	83-233	336.000	5.820	1.300	<	0.100
	209	83-266	326.000	5.660	1.300	<	0.100
	210	83-203	332 000	5.870	1.330	<	0.100
	210	83-261	333.000	5.880	1.350	<	0.100
DC-15	211	80-31	60.300	12.600	10.900		3.800
	211	80-56	61.300	12.400	10.700		3.840
	212	80-54	58.200	12.600	8.970		2.450

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
DC-15	212	80-76	59.000	12.600	9.170	2.500
	213	80-57	112.300	12.100	3.080	0.510
	213	80-65	123.000	12.900	3.440	0.550
	214	80-87	109.000	13.600	2.580	0.950
	214	80-94	110.000	13.800	2.590	0.950
	215	80-137	89.100	11.100	1.080	0.032
	215	80-197	91.300	11.000	1.070	0.032
	216	80-130				
	216	80-176	97.500	14.200	1.040	0.034
	216	80-999	97.700	14.200	1.060	0.034
	217	80-135	98.100	14.500	1.540	0.040
	217	80-149	97.800	13.300	1.670	0.040
	218	80-120	102.000	15.900	1.330	0.055
	218	80-139	100.000	15.400	1.330	0.054
	219	80-108	111.000	14.000	0.950	0.030
	219	80-131	117.000	13.600	0.960	0.030
	220	80-114	118.000	14.700	1.450	0.030
	220	80-193	113.000	13.300	1.400	0.033
	221	81-24	199.000	10.600	3.490	0.230
	221	81-41	200.000	10.800	3.490	0.220
	222	81-2	213.000	14.600	5.890	0.076
	222	81-36	217.000	14.900	6.050	0.780
	223	81-46	229.000	11.900	10.400	0.080
	223	81-50	230.000	11.700	10.300	0.080
	224	81-32	235.000	14.800	7.900	0.030
	224	81-33	252.000	23.600	7.770	0.030
	225	81-27	264.000	5.720	2.120 <	0.020
	225	81-74	262.000	5.640	2.110 <	0.025
	226	81-64	362.000	8.140	4.300	0.090
	226	81-80	355.000	8.010	4.180	0.080
	227	81-66				
	227	81-85	267.000	3.860	2.030	0.040
	227	81-96	277.000	4.010	2.210	0.150
	228	81-69	271.000	3.940	2.220	0.030
	228	81-84	263.000	3.690	2.110	0.030
	229	82-41	265.000	2.740	1.790 <	0.100
	229	82-94	271.000	2.880	1.840 <	0.100
DC-16A	230	81-109	104.000	4.200	10.800	4.900
	230	81-167	98.200	3.870	10.100	4.570
	231	82-17	46.600	6.440	14.900	3.510
	231	82-55	46.800	6.420	15.000	3.500
	232	82-45	68.600	11.600	5.970	1.470
	232	82-93	68.700	11.600	5.970	1.490
	233	82-19	165.000	17.000	2.020 <	0.100
	233	82-88	166.000	16.900	2.000 <	0.100
	234	82-140	180.000	18.200	1.670 <	0.100
	234	82-188	180.000	18.300	1.670 <	0.100
	235	82-124	142.000	20.300	1.670 <	0.100
	235	82-172	140.000	20.100	1.670 <	0.100

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA		MG
DC-16A	236	82-126	232.000	34.400	4.830	<	0.100
	236	82-143	232.000	34.600	4.900	<	0.100
	237	82-202	217.000	30.200	3.870	<	0.100
	237	82-228	227.000	31.500	4.080	<	0.100
	239	82-322	324.000	32.000	3.890	<	0.100
	239	82-361	320.000	31.600	3.820	<	0.100
	240	82-332	323.000	29.400	4.360	<	0.100
	240	82-358	325.000	29.500	4.310	<	0.100
	242	82-430	346.000	20.000	2.740	<	0.100
	242	82-473	355.000	20.400	2.810	<	0.100
	243	83-29	355.000	24.300	2.630	<	0.100
	243	83-41	353.000	23.800	2.620	<	0.100
DC-16B	244	83-147	56.300	11.400	4.800		1.460
	244	83-185	56.600	11.500	4.820		1.460
DC-16C	245	83-100	300.000	9.050	1.530	<	0.100
	245	83-30	297.000	8.900	1.600	<	0.100
	246	83-215	180.000	17.300	1.630	<	0.100
	246	83-259	180.000	17.300	1.740	<	0.100
DC-19C	247	84-53	188.000	19.400	1.720		0.160
	247	84-84	190.000	19.700	1.760		0.180
	248	84-40	191.000	20.700	2.040		0.130
	248	84-77	193.000	20.800	2.050		0.130
	249	84-29	194.000	12.000	1.890		0.210
	249	84-75	190.000	11.600	1.870		0.190
	250	84-18	177.000	6.340	2.000		0.310
	250	84-86	177.000	6.200	1.990		0.270
DC-20C	251	84-49	171.000	17.400	1.560	<	0.100
	251	84-9	171.000	17.400	1.560	<	0.100
DC-22C	252	84-105	126.000	17.000	1.850	<	0.100
	252	84-153	125.000	16.800	1.810	<	0.100
ENYEART	253	SITE-209	29.000	6.700	18.000		11.000
	254	SITE-210	27.000	6.400	18.000		11.000
	255	84-166	26.300	6.410	18.100		11.200
	255	84-184	26.000	6.300	18.000		11.200
FORD	257	SITE-206	27.000	8.500	19.000		12.000
	258	SITE-207	26.000	7.300	18.000		11.000
	259	SITE-219	26.000	5.600	17.600		6.300
MCGEE	260	SITE-224	30.000	7.900	17.000		8.600
	261	SITE-222	30.000	8.600	16.000		8.900
	262	SITE-223	30.000	8.300	16.000		8.800
	263	SITE-225	38.000	8.000	24.000		10.000
	264	SITE-220	29.500	7.500	16.500		8.500

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA		MG
MCGEE	265	82-52	28.300	7.560	15.900		8.400
	265	82-7	27.700	7.310	15.600		8.280
	266	80-64	29.700	8.850	16.600		9.290
	266	80-88	29.400	8.310	16.600		9.260
	267	81-73	30.800	8.440	16.400		8.770
	267	81-79	31.500	8.550	16.900		9.050
	268	81-94	31.200	8.310	17.100		9.500
	268	81-96	31.400	8.420	16.720		9.000
	269	82-11	29.900	8.100	16.800		8.810
	269	82-64	29.700	8.040	16.600		8.710
	270	82-105	29.400	8.100	16.800		8.800
	270	82-164	29.800	8.100	16.900		8.900
	270	82-183	29.500	8.000	17.000		8.900
	271	82-263	27.000	7.010	16.400		8.600
	271	82-283	27.400	7.090	16.700		8.700
	272	82-325	28.300	7.430	16.400		8.900
	272	82-397	28.600	7.530	16.500		9.000
	273	82-424	28.100	7.660	17.300		9.500
	273	82-474	28.100	7.690	17.600		9.600
	274	82-436	28.200	7.770	17.200		9.200
	274	82-498	28.300	7.790	17.400		9.300
	275	83-32	27.400	7.770	17.700		8.500
	275	83-63	27.700	7.800	17.900		8.500
	276	83-27	28.500	7.680	17.600		9.160
	276	83-83	28.700	7.800	18.000		9.300
	277	83-113	31.700	9.110	17.700		5.800
	277	83-188	31.800	9.200	17.800		5.800
	278	83-323	85.600	8.150	2.670		0.250
	278	83-373	85.400	8.120	2.660		0.260
	279	83-331	87.100	8.060	1.060	<	0.100
	279	83-344	88.600	8.140	1.040	<	0.100
	280	83-460	89.100	8.170	0.820	<	0.100
	280	83-474	90.700	8.270	0.810	<	0.100
	281	83-417	90.500	8.320	0.870	<	0.100
	281	83-476	90.900	8.360	0.870	<	0.100
	282	83-513	120.000	9.710	1.170	<	0.100
	282	83-545	120.000	9.820	1.180	<	0.100
	283	84-24	130.000	10.170	1.030	<	0.100
	283	84-38	126.000	9.870	1.000	<	0.100
RRL-02	284	82-28	162.000	20.900	1.980		0.200
	284	82-68	162.000	20.900	2.020		0.190
	285	82-65	141.000	15.500	1.940	<	0.100
	285	82-75	139.000	15.400	1.880	<	0.100
	286	82-163	286.000	35.600	9.600		0.230
	286	82-170	282.000	35.100	9.400		0.230
	287	82-122	374.000	25.300	2.880	<	0.100
	287	82-192	379.000	25.600	2.880	<	0.100
	288	82-401	337.000	13.800	2.220	<	0.100
	288	82-479	337.000	13.900	2.190	<	0.100

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA		MG
RRL-02	289	84-43	351.000	13.400	2.360	<	0.100
	289	84-7	353.000	13.500	2.350	<	0.100
	290	82-364	355.000	9.390	1.630	<	0.100
	290	82-381	361.000	9.610	1.720	<	0.100
	291	82-309	336.000	8.460	2.840		0.150
	291	82-351	329.000	8.360	2.800		0.150
	292	82-413	358.000	5.770	1.850	<	0.100
	292	82-456	364.000	5.870	1.830	<	0.100
RRL-14	294	82-403	336.900	24.700	2.100	<	0.100
	294	82-489	336.000	24.500	2.190	<	0.100
811-E12A	298	80-61	50.300	8.700	22.400		6.050
	298	80-7	51.300	8.860	22.900		6.170
	299	80-138	47.200	7.500	21.100		5.800
	299	80-180	48.200	7.800	21.600		5.900

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
199-B4-4	300	SITE-41	10.000	4.900	43.000	5.900
199-D5-12	301	SITE-80	12.000	4.100	39.000	8.400
199-D8-3	302	SITE-72	5.200	5.000	46.000	6.900
199-F5-1	303	SITE-82	4.400	2.700	34.000	4.500
199-H4-3	304	SITE-81	700.000	10.000	50.000	7.500
199-K-19	305	SITE-83	3.400	1.900	34.000	4.300
199-N-15	306	SITE-42	2.900	2.400	27.000	4.600
299-E26-8	307	SITE-165	15.600	5.000	23.800	10.700
299-E33-12	308	SITE-169	74.000	7.000	34.000	13.100
399-1-3	309	SITE-43	21.000	3.100	33.000	5.500
399-4-10	310	SITE-44	22.000	3.900	29.000	5.800
399-8-4	311	SITE-140	17.000	4.600	35.000	7.200
699-1-18	312	SITE-145	23.000	6.600	46.000	11.000
699-10-E12	313	SITE-147	19.000	5.500	45.000	14.000
699-11-45A	314	SITE-148	11.000	4.600	33.000	8.900
699-13-1A	315	SITE-60	22.000	6.500	33.000	13.000
699-14-38	316	SITE-61	17.000	6.000	34.000	11.000
	317	SITE-86	17.000	5.700	30.000	9.400
699-15-15B	318	SITE-13	20.000	7.200	41.000	9.300
	319	SITE-149	20.000	6.400	54.000	11.000
699-15-26	320	SITE-24	22.000	7.300	46.000	12.000
	321	SITE-150	23.000	6.300	48.000	12.000
699-17-5	322	SITE-18	12.000	6.400	61.000	11.000
	323	SITE-151	10.000		70.000	10.000
699-19-43	324	SITE-48	18.000	5.700	43.000	11.000
	325	SITE-121	19.000	5.600	44.000	10.000
699-2-3	326	SITE-1	19.000	6.300	44.000	11.000
699-2-33	327	SITE-85	13.000	4.400	38.000	11.000

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
699-2-33	328	SITE-146	12.000	4.400	42.000	11.000
699-20-20	329	SITE-25	20.000	8.000	53.000	11.000
699-20-E5-0	330	SITE-49	13.000	5.900	35.000	9.500
699-24-33	331	SITE-28	25.000	7.600	47.000	13.000
699-24-46	332	SITE-122	16.000	6.000	32.000	12.000
699-25-35	333	SITE-100	10.000	5.100	50.000	12.000
699-26-15	334	SITE-26	23.000	7.100	48.000	11.000
699-27-4	335	SITE-101	10.000	5.700	50.000	10.000
699-27-8	336	SITE-5	19.000	6.400	56.000	12.000
	337	SITE-30	19.000	6.900	54.000	11.000
	338	SITE-50	20.000	6.300	55.000	12.000
	339	SITE-76	20.000	6.700	54.000	13.000
	340	SITE-87	21.000	6.400	48.000	12.000
699-28-40	341	SITE-68	23.000	6.700	46.000	12.000
699-31-31	342	SITE-69	30.000	7.200	43.000	13.000
	343	SITE-102	30.000	6.900	37.000	11.000
699-31-538	344	SITE-88	21.000	4.900	38.000	12.000
699-32-22	345	SITE-17	31.000	7.000	53.000	14.000
	346	SITE-27	29.000	7.200	53.000	13.000
	347	SITE-51	29.000	6.500	51.000	13.000
	348	SITE-65	30.000	6.900	50.000	14.000
	349	SITE-89	29.000	6.600	46.000	13.000
699-32-70	350	SITE-70	18.000	4.500	37.000	12.000
	351	SITE-90	19.000	4.300	32.000	9.800
	352	SITE-152	18.000	4.100	34.000	11.000
699-32-72	353	SITE-35	16.000	4.300	28.000	12.000
699-32-77	354	SITE-103	25.000	3.200	30.000	7.000
699-33-42	355	SITE-12	31.000	6.900	41 000	13.000
	356	SITE-29	29.000	7.000	38.000	12.000
	357	SITE-52	29.000	5.300	37.000	12.000
	358	SITE-67	29.000	6.400	38.000	13.000
	359	SITE-91	31.000	6.200	35.000	12.000
699-33-56	360	SITE-8	27.000	5.800	42.000	13.000

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
699-33-56	361	SITE-40	25.000	6.100	41.000	12.000
	362	SITE-53	24.000	5.700	46.000	14.000
	363	SITE-62	24.000	6.000	47.000	14.000
	364	SITE-92	25.000	5.700	41.000	12.000
699-34-39A	365	SITE-93	31.000	6.800	32.000	11.000
699-34-42	366	SITE-33	32.000	7.300	37.000	11.000
	367	SITE-153	28.000	6.100	32.000	9.900
699-34-51	368	SITE-66	21.000	5.900	50.000	15.000
699-35-66	369	SITE-77	20.000	5.900	43.000	13.000
	370	SITE-94	23.000	5.600	40.000	11.000
699-35-70	371	SITE-36	28.000	6.600	51.000	16.000
699-35-78	372	SITE-54	23.000	3.200	19.000	6.400
699-35-9	373	SITE-31	19.000	5.500	40.000	9.500
	374	SITE-104	10.000	5.500	50.000	10.000
699-36-61A	375	SITE-95	21.000	5.600	40.000	13.000
699-37-43	376	SITE-34	41.000	8.400	25.000	7.900
	377	SITE-173	57.000	8.700	82.000	29.000
699-37-82A	378	SITE-105	22.000	8.000	50.000	0.400
699-38-70	379	SITE-37	21.000	7.300	92.000	29.000
699-4-E6	380	SITE-47	17.000	6.000	38.000	11.000
699-40-1	381	SITE-10	17.000	6.000	40.000	11.000
	382	SITE-106	10.000	5.800	50.000	11.000
699-40-33	383	SITE-55	52.000	7.500	14.000	3.900
699-40-62	384	SITE-56	17.000	5.300	43.000	15.000
699-41-23	385	SITE-15	30.000	7.300	48.000	15.000
	386	SITE-113	29.000	6.700	42.000	12.000
699-42-12	387	SITE-2	24.000	5.400	41.000	14.000
	388	SITE-155	26.000	5.400	43.000	15.000
699-42-2	389	SITE-154	19.000	5.300	41.000	12.000
699-42-40A	390	SITE-174	28.000	3.800	19.000	14.000

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
699-42-40C	391	SITE-175	25.000	4.300	22.000	12.400
699-42-42	392	SITE-114	24.000	5.800	50.000	14.000
699-43-88	393	SITE-123	14.000	4.600	42.000	6.300
699-45-42	394	SITE-57	18.000	4.500	25.000	11.000
699-45-69	395	SITE-96	14.000	3.800	41.000	17.000
699-46-21	396	SITE-75	21.000	4.900	40.000	16.000
	397	SITE-124	21.000	4.700	42.000	14.000
699-46-5	398	SITE-156	22.000	4.700	43.000	0.014
699-47-55A	399	SITE-182	35.000	10.300	70.000	20.000
699-48-18	400	SITE-125	13.000	5.700	44.000	12.000
699-48-71	401	SITE-59	10.000	3.600	32.000	13.000
699-49-55	402	SITE-9	41.000	7.700	55.000	15.000
	403	SITE-39	39.000	10.000	57.000	12.000
	404	SITE-58	43.000	11.000	63.000	15.000
	405	SITE-78	42.000	12.000	62.000	7.700
	406	SITE-97	45.000	13.000	58.000	7.700
	407	SITE-126	41.000	12.000	64.000	1.400
	408	SITE-157	45.000	13.000	67.000	8.300
699-49-57	409	SITE-38	53.000	9.700	85.000	25.000
699-49-79	410	SITE-20	8.700	4.200	44.000	15.000
699-50-28B	411	SITE-63	22.000	4.200	31.000	11.000
699-50-42	412	SITE-14	18.000	5.900	31.000	12.000
	413	SITE-115	16.000	4.600	17.000	5.000
699-50-8	414	SITE-64	22.000	6.900	42.000	12.000
699-50-85	415	SITE-127	10.000	3.900	38.000	12.000
699-51-63	416	SITE-116	12.000	4.100	32.000	12.000
699-53-103	417	SITE-160	29.000	7.800	17.000	9.200
699-55-50C	418	SITE-79	6.000	4.700	29.000	8.800
	419	SITE-128	5.000	4.300	29.000	7.900
	420	SITE-193	4.700	4.100	19.000	9.200

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
699-55-76	421	SITE-71	14.000	5.900	41.000	8.100
	422	SITE-117	10.000	5.500	34.000	5.200
	423	SITE-129	9.600	4.800	28.000	4.900
699-55-89	424	SITE-118	10.000	4.400	33.000	12.000
699-56-53	425	SITE-194	8.400	5.300	25.000	10.500
	426	SITE-195	8.500	5.400	25.000	10.500
699-57-25A	427	SITE-119	31.000	6.600	30.000	7.100
699-57-83	428	SITE-130	7.600	3.500	30.000	12.000
699-59-58	429	SITE-107	27.000	5.400	30.000	7.000
699-60-57	430	SITE-198	38.000	7.800	16.000	8.500
699-62-31	431	SITE-131	20.000	5.200	36.000	8.100
699-63-25A	432	SITE-132	24.000	5.200	64.000	13.000
699-63-90	433	SITE-74	11.000	4.700	36.000	13.000
	434	SITE-133	11.000	4.400	34.000	12.000
699-64-27	435	SITE-158	48.000	7.100	91.000	21.000
699-65-50	436	SITE-73	19.000	5.400	26.000	9.200
	437	SITE-134	19.000	5.000	24.000	8.200
699-66-39	438	SITE-135	61.000	1.300	9.300	1.300
699-66-58	439	SITE-136	14.000	5.400	27.000	8.400
699-66-64	440	SITE-137	16.000	5.500	27.000	8.300
699-69-38	441	SITE-6	64.000	13.000	72.000	8.800
699-71-30	442	SITE-108	39.000	6.200	56.000	14.000
699-71-52	443	SITE-138	22.000	5.500	30.000	10.000
699-72-73	444	SITE-109	10.000	5.500	32.000	10.000
699-72-88	445	SITE-98	9.300	4.500	33.000	7.500
699-77-36	446	SITE-110	69.000	7.100	70.000	30.000
699-78-62	447	SITE-111	15.000	5.100	35.000	10.000
699-8-17	448	SITE-23	22.000	7.300	45.000	11.000

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
699-8-25	449	SITE-32	22.000	7.300	46.000	12.000
699-8-32	450	SITE-19	18.000	5.900	40.000	10.000
699-81-58	451	SITE-159	4.000	2.600	29.000	7.400
699-83-47	452	SITE-112	18.000	4.400	31.000	11.000
699-87-55	453	SITE-99	16.000	3.500	26.000	9.600
699-9-E2	454	SITE-16	30.000	6.900	24.000	9.700
699-90-45	455	SITE-139	16.000	5.700	35.000	11.000
699-HANFORD-19	456	SITE-3	25.000	5.400	31.000	7.100
699-811-E12A	457	SITE-4	16.000	4.600	39.000	11.000
699-812-3	458	SITE-45	23.000	5.600	43.000	9.800
	459	SITE-143	24.000	5.800	42.000	9.600
699-819-E13	460	SITE-120	22.000	6.000	40.000	11.000
699-829-E12	461	SITE-21	21.000	6.500	44.000	8.800
699-83-25	462	SITE-7	26.000	7.300	51.000	14.000
	463	SITE-142	26.000	7.700	62.000	15.000
699-83-E12	464	SITE-22	17.000	7.000	26.000	3.100
	465	SITE-141	13.000	4.700	24.000	8.100
699-830-E15A	466	SITE-144	17.000	6.000	60.000	12.000
699-86-E4D	467	SITE-11	22.000	6.600	45.000	12.000
699-88-19	468	SITE-46	32.000	7.600	41.000	9.800
	469	SITE-84	36.000	7.800	36.000	8.900
RRL-06A	470	82-35	20.100	4.400	41.200	14.500
	470	82-40	20.200	4.400	41.400	14.500

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
BENNETT SPRING	471	SITE-218	7.100	1.600	22.800	8.200
	472	79-13	8.900	2.600	25.600	9.800
BENSON SPRING	473	SITE-217	6.090	1.500	22.830	4.300
BUTLER SPRING	474	79-1	8.800	2.300	21.700	9.700
	474	79-50	8.800	2.400	21.900	9.680
GULCH SPRING	475	84-359	19.200	4.780	43.800	19.500
	475	84-383	19.300	4.700	43.100	19.200
JUNIPER SPRING	476	SITE-215	19.600	5.200	23.600	10.300
	477	79-2	30.000	6.900	24.700	17.800
	477	79-43	28.800	6.600	23.500	16.900
	478	81-115	24.190	5.850	23.950	15.240
	478	81-161	24.640	5.950	24.160	15.360
	479	83-305	24.570	5.910	27.810	17.000
	479	83-372	24.500	5.800	25.350	16.570
LOWER SNIVELY SPRING	480	79-19	9.500	2.500	19.900	9.800
	480	79-34	11.200	2.900	22.600	11.200
	481	82-362	8.700	2.400	22.200	10.200
	481	82-377	8.400	2.300	22.100	10.100
	482	83-311	8.560	2.660	22.860	10.370
	482	83-396	8.590	2.430	22.500	10.230
LOZIER SPRING	483	79-44	7.700	2.000	23.400	9.300
	483	79-6	7.600	1.800	23.000	9.100
	484	81-116	7.850	1.260	24.080	8.940
	484	81-186	7.770	1.260	24.010	8.880
	485	83-316	7.810	1.410	24.580	8.870
	485	83-343	7.720	1.480	24.580	8.860
MAIDEN SPRING	486	79-67	7.810	2.570	19.350	8.890
	486	79-96	7.620	2.530	18.440	8.800
	487	83-420	7.130	1.660	19.320	7.370
	487	83-435	7.270	1.700	19.660	7.510
OBSERVATORY SPRING	488	84-310	7.430	1.810	22.600	11.000
	488	84-392	7.830	2.000	23.000	11.200
	489	84-329	7.380	1.830	22.500	10.900
	489	84-366	7.330	1.790	22.200	10.800
	490	81-119	7.540	1.740	21.990	10.670
	490	81-157	8.100	1.990	22.080	10.710
	491	83-433	7.400	1.820	22.690	10.930
	491	83-461	7.420	1.900	23.110	11.070
RAILROAD SPRING	492	79-76	7.200	3.200	18.700	14.900
	492	79-81	6.600	2.900	16.900	14.200

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
RATTLESNAKE SPRING	493	SITE-216	12.000	3.000	28.500	8.000
	494	79-87	16.600	8.300	48.500	17.200
	494	79-88	16.300	8.300	45.800	17.250
	495	83-412	18.250	4.990	53.980	15.630
	495	83-466	17.990	4.990	53.840	15.600
SNIVELY SPRING	496	79-37	10.000	2.500	21.600	9.400
	496	79-49	10.000	2.500	21.500	9.300
SULPHUR SPRINGS	497	79-29	9.900	3.600	23.800	10.100
	497	79-36	9.800	3.600	23.600	10.100
	498	83-409	9.870	2.970	25.820	9.330
	498	83-442	9.780	2.890	25.500	9.200
UNNAMED SPRING #02	499	79-75	9.800	2.930	19.700	10.900
	499	79-93				
UNNAMED SPRING #16	500	79-73	8.300	2.100	20.600	6.760
	500	79-82	8.400	2.080	20.260	6.860
UNNAMED SPRING #26	501	79-54	12.000	6.800	27.400	11.300
	501	79-98	11.800	5.200	26.800	10.800
UNNAMED SPRING #29	502	79-16	12.200	2.560	27.800	10.400
	502	79-24	11.700	2.100	28.500	10.400
UPPER SNIVELY SPRING	503	79-69	7.870	2.360	16.980	7.600
	503	79-71	7.830	2.220	16.620	7.520
	504	81-126	7.900	1.900	19.500	7.400
	504	81-200	7.700	1.820	18.900	7.200
	505	83-503	8.230	2.090	19.490	7.370
	505	83-547	8.000	2.050	19.410	7.370
WARM SPRING	506	84-358	22.900	6.200	25.600	11.200
	506	84-371	22.900	6.200	25.700	11.300

MAJOR INORGANICS FOR SURFACE

LOCATION	REC NUM	SAMPLE NUMBER	NA	K	CA	MG
COL RIV @ HANFORD TB	507	SITE-221	1.250	0.300	15.000	
COL RIV @ VERNITA BR	508	84-330	2.470	0.720	15.900	3.820
	508	84-361	2.430	0.750	15.800	3.800
	509	84-311	2.560	0.720	15.900	3.830
	509	84-356	2.540	0.690	16.000	3.850
COL RIVER @ DC-14	510	83-211	2.400	0.900	20.300	4.820
	510	83-258	2.470	0.960	20.700	4.950
COLD CREEK	513	84-317	15.400	3.030	30.900	12.600
	513	84-336	15.500	3.060	31.400	12.900
	514	84-302	15.600	2.870	31.800	13.000
	514	84-345	15.600	2.900	31.500	12.900

MAJOR INORGANICS FOR PRECIPITATION

LOCATION	REC NUM	SAMPLE NUMBER	NA		K		CA		MG
STATION 03	516	82-51		0.184	<	0.277		0.268	<	0.103
STATION 04	530	82-61		0.174	<	0.277		0.516	<	0.103
STATION 07	546	82-92		0.112	<	0.277		0.205	<	0.103
STATION 14	560	82-20		0.189		0.501		0.219	<	0.103
STATION 17	576	82-70		0.270	<	0.277		0.281	<	0.103
STATION 20	593	82-58	<	0.067	<	0.277		0.088	<	0.103
	594	82-74		0.110	<	0.277		0.101	<	0.103
STATION 25	609	82-83	<	0.067	<	0.277		0.142	<	0.103
	610	82-66		0.107	<	0.277		0.129	<	0.103
STATION 26	628	82-91		0.069	<	0.277		0.222	<	0.075
	629	82-98		0.259	<	0.277		0.224	<	0.103

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
299-E16-1	1	SITE-161		90.000	32.000		
	2	SITE-162		143.000	32.000		
	3	SITE-163		144.000	31.000		
	4	SITE-164		145.000	32.000		
299-E26-8	5	SITE-166			37.000		
	6	SITE-167		103.000	37.000		
	7	SITE-168		104.000	37.000		
299-E33-12	8	SITE-170		39.000	28.000		
	9	SITE-171		50.000	31.000		
	10	SITE-172		64.000	34.000		
699-42-40C	11	SITE-177		122.000	34.000		
	12	SITE-178		123.000	34.000		
	13	SITE-179		125.000	34.000		
	14	SITE-180					
	15	SITE-176		128.000	23.000		
699-47-50	16	SITE-205					
	17	SITE-181		95.000	24.000		
699-49-55B	18	SITE-183		120.000	34.000		
	19	SITE-184		122.000	34.000		
	20	SITE-185		117.000	33.000		
699-50-45	21	SITE-203					
	22	SITE-186		114.000	27.000		
699-50-48	23	SITE-204					
	24	SITE-187		114.000	31.000		
699-51-46	25	SITE-201					
	26	SITE-188		86.000	32.000		
699-52-46A	27	SITE-202					
	28	SITE-189		117.000	37.000		
699-52-48	29	SITE-199					
	30	SITE-190		147.000	28.000		
699-53-50	31	SITE-200					
	32	SITE-191		114.000	33.000		
699-54-57	33	SITE-192		117.000	33.000		
699-56-53	34	SITE-196		130.000	20.000		
	35	SITE-197		129.000	19.000		
DB-01	36	CP73		202.000	31.800		47.370

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
DB-01	36	CP82		202.000	30.900		
	38	81-15	193.000	191.000			
	38	81-19	193.000	191.000	27.900		
	39	81-65	132.000	134.000	35.500		
	39	81-70	132.000	134.000	35.500		
	40	82-27		136.000	35.400	0.660	
	40	82-87		136.000	35.300		
DB-02	43	CP74		207.000	31.000		
	43	CP83		207.000	28.800		47.870
	44	CP123			33.000		
	46	81-11		134.200	29.600		
	46	81-13		134.200	29.700		
	47	81-10		134.200	34.200		
	47	81-7		134.200	34.300		
DB-04	48	CP37		194.836	17.312		46.350
	49	CP75		197.000	42.500		45.700
	49	CP84		197.000	42.300		
	50	CP116			48.600		
	51	CP117		175.000	50.500		
DB-05	52	CP76		167.000	33.300		38.990
	52	CP85		167.000	33.400		
	53	CP112		174.000	36.300		40.440
	54	CP113		187.700			
DB-07	56	CP77		175.000	39.100		
	56	CP86		175.000	38.700		36.810
	57	CP121			41.500		
	59	83-413	170.000	170.000	38.370	0.740	34.880
	59	83-448	170.000	170.000	37.400		
DB-09	60	CP54		141.803	31.498		32.910
	61	CP59		142.377	35.399		33.070
	62	CP78		141.000	29.300		32.910
	62	CP87		141.000	30.800		
	63	CP114		140.000	32.200		
	64	CP115			31.400		
	66	83-410	138.000	139.000	27.400		
	66	83-472	138.000	139.000	27.400	0.440	32.410
DB-10	67	CP79		193.000	1.800		
	67	CP88		193.000	1.500		
DB-11	72	CP53		145.000	32.200		34.560
	72	CP56		145.000	33.100		
	73	CP61		145.000	35.200		34.720
	73	CP64		145.000	34.200		
	74	CP80		146.000	29.800		34.960

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
DB-11	74	CP89		146.000	29.100		
	75	81-57		141.000	32.170		
DB-12	76	63-95		145.000	14.900		
	77	CP65		159.000	27.900		37.890
	78	CP66		159.000	26.300		37.510
	79	CP67		162.000	26.100		38.990
	80	CP68		153.000	24.900		37.310
	81	81-25		171.900	26.100		
	81	81-42		171.900	26.000		
DB-13	82	CP69		153.000	28.200		35.930
	83	CP70		156.000	30.150		37.210
	84	CP71		152.000	30.100		36.160
	85	CP72		150.000	28.600		35.540
	86	CP91		160.000	29.300		37.590
	87	CP92		170.000	31.200		39.880
	88	CP96		178.000	39.200		
	89	CP95		178.000	33.600		41.830
	90	CP97A			26.900		
	90	CP97B			26.600		
	92	83-404	154.000	153.000	29.800	0.640	33.650
	92	83-455	154.000	153.000	30.000		
DB-14	93	CP93		152.000	31.300		35.340
	93	CP94		152.000	31.700		
	94	CP98		159.000	29.100		
	95	CP99		155.000	33.600		35.560
	96	CP100		149.000	28.800		
	97	CP101		150.000	28.000		33.600
	98	CP102		156.000	28.300		36.420
	99	CP103		159.000	29.700		37.740
	100	CP119		159.000	35.000		
	101	81-139		128.400	36.230		
	101	81-162		128.400	36.560	29.400	
DB-15	102	79-17		98.400	24.900		
	102	79-4		98.400	26.000		
	103	79-20		171.500	20.700		
	103	79-35		171.500	20.500		
	104	79-27		174.000	25.600		
	104	79-33		174.000	25.200		
	105	79-15		191.300	29.400		
	105	79-46		191.300	29.700		
	106	79-39		207.700	28.700		
	106	79-8		207.700	28.800		
	107	79-31		194.700	28.000		
	107	79-5		194.700	28.600		
	109	79-51		154.200	53.200		
	109	79-61		154.200	54.000		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
DB-15	110	79-74		156.650	57.900		
	110	79-85		156.650	59.000		
	111	79-80		149.600	62.500		
	111	79-99		149.600	57.200		
	112	79-62		146.800	41.000		
	112	79-84		146.800	40.300		
	113	79-90		161.200	39.500		
	113	79-95		161.200	43.500		
	114	80-35		158.600	94.500		
	114	80-41		158.600	85.400		
	115	80-24		154.200	46.600		
	115	80-74		154.200	47.500		
	116	80-42		168.600	45.000		
	116	80-77		168.600	44.300		
	117	80-1		148.200	45.600		
	117	80-51		148.200	46.000		
DC-01	118	SITE-230		122.000	11.000		
	119	SITE-226		180.000	25.000		
	120	SITE-227		168.000	34.000		
	121	SITE-228		171.000	37.000		
	122	SITE-229		171.000	38.000		
	123	SITE-231		161.000	17.000		
	124	SITE-232		180.000	21.000		
	125	SITE-233		192.000	26.000		
	126	SITE-234		182.000	27.000		
	127	SITE-235		157.000	42.000		
	128	SITE-236		153.000	42.000		
	129	SITE-237		168.000	38.000		
	130	SITE-238		179.000	22.000		
	131	SITE-239		208.000	54.000		
	132	SITE-240		208.000	56.000		
	133	SITE-241		202.000	49.000		
	134	SITE-242		180.000	29.000		
	135	SITE-243		161.000	31.000		
DC-02A	136	80-25		390.200	124.000		
	136	80-4		390.200	93.600		
	137	SITE-213		73.470	71.400		
DC-03	138	80-27		143.000	2.790		
	138	80-81		143.000	2.060		
DC-05	139	79-30		120.600	34.800		
	139	79-32		120.600	33.600		
DC-06	140	80-147			52.300		
	140	80-161			53.400		
	141	80-22			22.100		
	141	80-72			22.500		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	BI	TOC	TOTAL CARBON
DC-06	142	BITE-214		163.100	54.000		
	143	80-201		166.600	61.800		
	143	80-238		166.600	64.700		
	144	80-186		137.000	63.100		
	144	80-191		137.000	59.500		
	145	80-13		137.000	54.900		
	145	80-58		137.000	53.400		
	146	79-59			50.500		
	146	79-97			48.700		
	147	81-45		183.700	49.400		
	147	81-8		183.700	49.400		
	148	80-118		114.400	50.000		
	148	80-133		114.400	46.100		
	149	80-15		83.200	34.500		
	149	80-70		83.200	35.000		
	150	81-76	83.000	84.000	38.500		
	150	81-82	83.000	84.000	38.500		
	151	80-29		151.800	54.100		
	151	80-37		151.800	51.900		
	152	79-57		155.500	61.200		
	152	79-58		155.500	51.800		
	153	80-45		173.400	51.600		
	153	80-75		173.400	50.200		
DC-07	154	82-23	158.000	180.000	45.900	53.340	
	154	82-56	158.000	180.000	46.600		
	155	82-10	141.000	160.000	45.000	38.610	
	155	82-33	141.000	160.000	45.000		
	156	80-39		177.400	35.300		
	156	80-98		177.400	35.200		
	157	80-11		141.200	43.200		
	157	80-19		141.200	43.600		
	158	79-52			46.000		
	158	79-55			47.200		
	159	80-103		158.400	47.200		
	159	80-163		158.400	47.700		
	160	80-178		108.000	57.400		
	160	80-188		108.000	57.700		
	161	80-177		197.600	75.200		
	161	80-196		197.600	77.500		
DC-12	162	80-62		137.100	32.600		
	162	80-80		137.100	32.600		
	163	80-100		139.700	34.100		
	163	80-63		139.700	37.600		
	164	80-73		143.400	31.300		
	164	80-97		143.400	31.200		
	165	80-32		173.250	86.300		
	165	80-68		173.250	86.100		
	166	80-23		147.400	33.000		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
DC-12	166	80-82		147.400	32.400		
	167	80-102		139.700	35.300		
	167	80-124		139.700	35.000		
	168	80-101			51.800		
	168	80-169			50.800		
	169	80-143		144.650			
	169	80-174		144.650	28.900		
	170	80-209		163.000	52.800		
	170	80-242		163.000	51.900		
	171	80-233		157.400	46.300		
	171	80-243		157.400	50.000		
	172	80-208		210.600	54.500		
	172	80-234		210.600	53.800		
	173	81-61	146.000	150.000	54.900		
	173	81-72	146.000	150.000	56.000		
	174	82-47		151.800	63.200		
	174	82-85		151.800	63.000	2.560	
DC-14	175	80-3		132.400	27.700		
	175	80-34		132.400	27.800		
	176	80-16		109.300	32.400		
	176	80-53		109.300	31.800		
	177	80-47		107.800	32.400		
	177	80-85		107.800	33.900		
	178	80-69		144.600	25.100		
	178	80-83		144.600	25.000		
	179	80-55		166.700	24.300		
	179	80-99		166.700	24.000		
	180	80-36		149.600	25.600		
	180	80-89		149.600	26.000		
	181	80-2		151.800	26.200		
	181	80-71		151.800	26.100		
	182	80-136		134.200	27.800		
	182	80-144		134.200	26.800		
	182	80-199		134.200			
	183	80-105		140.800			
	183	80-127		140.800	27.400		
	183	80-189		140.800	27.000		
	184	80-112		134.200	30.800		
	184	80-168		134.200	29.800		
	185	80-157		145.200	19.800		
	185	80-183		145.200	20.000		
	186	80-155		145.750	42.400		
	186	80-185		145.750	42.100		
	187	80-104		148.500	38.700		
	187	80-125		148.500	38.500		
	187	80-148		148.500			
	188	80-115		146.300	58.800		
	188	80-129		146.300	60.400		
	189	80-156		160.000	60.900		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
DC-14	189	80-170		160.000	61.200		
	189	80-195		160.000			
	190	80-109		187.600			
	190	80-117		187.600	68.900		
	190	80-151		187.600	68.800		
	191	80-213		206.600	72.500		
	191	80-225		206.600			
	191	80-236		206.600	75.600		
	192	81-20		150.900	48.400		
	192	81-22		150.900	49.200		
	193	81-16		109.000	57.300		
	193	81-30		109.000	56.000		
	194	81-44	124.000	131.000	48.500		
	194	81-47	124.000	131.000			
	195	81-141		106.430	54.200		
	196	81-21	156.000	168.000	39.600		
	196	81-29	156.000	168.000	39.800		
	197	81-63	123.000	124.000			
	197	81-91	123.000	124.000	50.300		
	197	81-99	123.000	124.000	50.100		
	198	81-163	112.000	115.000	51.300		
	198	81-90	112.000	115.000	51.400		
	199	81-114	109.000	110.000			
	199	81-138	109.000	110.000	51.000		
	199	81-188	109.000	110.000	51.100		
	200	82-31		109.000			
	200	82-42		109.000	51.600		
	200	82-8		109.000	51.800	0.980	
	202	83-156	103.000	110.000	53.700	0.640	11.500
	202	83-197	103.000	110.000	53.300		
	203	83-152	110.000		53.200	0.770	10.740
	203	83-193	110.000		53.100		
	204	83-157	114.000	123.000	54.300	0.740	11.100
	204	83-179	114.000	123.000	54.500		
	205	83-103	114.000	109.000	53.400		
	205	83-178	114.000	109.000	53.400	0.640	11.100
	206	83-123	107.000	118.000	53.400		
	206	83-183	107.000	118.000	53.100	0.510	11.000
	207	83-154	110.000	120.000	54.900	0.620	11.000
	207	03-191	110.000	120.000	54.800		
	208	83-108	108.000		54.300		
	208	83-150	108.000		54.700	0.610	10.800
	209	83-233	110.000	117.000	55.300		
	209	83-266	110.000	117.000	54.500	1.110	11.300
	210	83-203	109.000	118.000	53.700		
	210	83-261	109.000	118.000	53.900	1.540	12.600
DC-15	211	80-31		167.500	23.100		
	211	80-56		167.500	25.500		
	212	80-54		157.900	25.500		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	BI	TOC	TOTAL CARBON
DC-15	212	80-76		157.900	26.000		
	213	80-57		248.600	32.800		
	213	80-65		248.600	33.700		
	214	80-87		232.600	28.500		
	214	80-94		232.600	28.600		
	215	80-137		130.100	32.600		
	215	80-197		130.100	32.800		
	216	80-130		138.600			
	216	80-176		138.600	32.100		
	216	80-999		138.600	32.500		
	217	80-139		148.500	37.800		
	217	80-149		148.500	36.300		
	218	80-120		162.250	37.700		
	218	80-139		162.250	37.700		
	219	80-108		151.800	55.700		
	219	80-131		151.800	56.100		
	220	80-114		173.000	58.000		
	220	80-193		173.000	59.200		
	221	81-24		94.400	40.800		
	221	81-41		94.400	41.200		
	222	81-2		86.240	43.400		
	222	81-36		86.240	44.500		
	223	81-46		78.300	38.300		
	223	81-50		78.300	38.000		
	224	81-32		52.300	43.900		
	224	81-33		52.300	42.500		
	225	81-27	108.000	104.000	54.900		
	225	81-74	108.000	104.000	54.800		
	226	81-64	66.000	75.170	40.600	23.000	
	226	81-80	66.000	75.170	39.900		
	227	81-66	88.000	85.000			
	227	81-85	88.000	85.000	38.100		
	227	81-96	88.000	85.000	39.300		
	228	81-69	83.000	86.000	37.700		
	228	81-84	83.000	86.000	36.800		
	229	82-41		146.300	54.700		
	229	82-94		146.300	54.000	11.370	
DC-16A	230	81-109	229.000	224.000	22.200	28.480	
	230	81-167	229.000	224.000	22.200		
	231	82-17	141.000	148.000	9.870	3.410	
	231	82-55	141.000	148.000	9.870		
	232	82-45		184.000	33.900		
	232	82-93		184.000	34.200	9.740	
	233	82-19	146.000	150.000	38.300	8.440	
	233	82-88	146.000	150.000	39.400		
	234	82-140	145.000	151.000	36.100		
	234	82-188	145.000	151.000	36.100	3.550	
	235	82-124	142.000	144.000	40.800	4.910	
	235	82-172	142.000	144.000	40.600		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	BI	TOC	TOTAL CARBON
DC-16A	236	82-126	96.000	103.000	37.700		
	236	82-143	96.000	103.000	38.000	8.610	
	237	82-202		107.600	33.700	11.180	30.230
	237	82-228		107.600	34.200		
	239	82-322	91.000	90.000	37.900	6.900	24.950
	239	82-361	91.000	90.000	37.500		
	240	82-332			34.000	6.800	
	240	82-358			34.400		
	242	82-430	138.000	150.000	28.600	20.900	46.210
	242	82-473	138.000	150.000	29.200		
	243	83-29	141.000		45.900	12.320	36.190
	243	83-41	141.000		46.400		
DC-16B	244	83-147	135.000	148.000	33.400	1.740	35.700
	244	83-185	135.000	148.000	33.500		
DC-16C	245	83-100	118.000	124.000	42.700	1.970	23.120
	245	83-30	118.000	124.000	42.400		
	246	83-215	126.000	130.000	38.000		
	246	83-259	126.000	130.000	37.800	1.190	28.400
DC-19C	247	84-53	127.000	125.000	31.400	1.210	30.180
	247	84-84	127.000	125.000	31.500		30.180
	248	84-40	144.000		31.600	1.620	31.430
	248	84-77	144.000		31.700		31.430
	249	84-29	116.000	117.000	37.900		
	249	84-75	116.000	117.000	37.900	1.750	25.780
	250	84-18	111.000	113.000	41.300		
	250	84-86	111.000	113.000	40.600		25.060
DC-20C	251	84-49	132.500	132.000	35.800	0.950	29.270
	251	84-9	132.500	132.000	35.800	0.950	29.270
DC-22C	252	84-105	125.000	114.000	35.600	1.080	27.230
	252	84-153	125.000	114.000	35.700	1.080	27.230
ENYEART	253	SITE-209		151.000	30.000		
	254	SITE-210		150 000	28.000		
	255	84-166	146.000	147.000	28.000	0.270	34.340
	255	84-184	146.000	147.000	27.900		
FORD	257	SITE-206		155.000	30.000		
	258	SITE-207		148.000	26.000		
	259	SITE-219		154.100	24.700		
MCGEE	260	SITE-224.			27.100		
	261	SITE-222			26.000		
	262	SITE-223					
	263	SITE-225			0.110		
	264	SITE-220		146.700	26.100		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
MCGEE	265	82-52	140.000	145.000	29.300		
	265	82-7	140.000	145.000	29.800	0.760	
	266	80-64		142.400	26.600		
	266	80-88		142.400	26.300		
	267	81-73	139.000	136.000	27.300		
	267	81-79	139.000	136.000	28.200		
	268	81-54	138.000	133.000	28.000	0.660	
	268	81-56	138.000	133.000	27.800		
	269	82-11	134.000	139.000	29.600		
	269	82-64	134.000	139.000	29.300		
	270	82-105			29.200		
	270	82-164			29.600		
	270	82-183			29.600		
	271	82-263	143.000	139.000	28.500	0.440	39.700
	271	82-283	143.000	139.000	28.800		
	272	82-325	148.000	142.000	28.900		
	272	82-397	148.000	142.000	29.100	0.350	40.490
	273	82-424	139.000	146.000	29.200	0.290	37.910
	273	82-474	139.000	146.000	29.600		
	274	82-436	143.000	148.000	29.200	0.540	36.600
	274	82-498	143.000	148.000	29.600		
	275	83-32	144.000	148.000	29.800	0.420	36.600
	275	83-63	144.000	148.000	30.000		
	276	83-27	151.000	151.000	29.900		
	276	83-83	151.000	151.000	30.000	0.500	38.690
	277	83-113	148.000	150.000	30.800		
	277	83-188	148.000	150.000	31.000		40.500
	278	83-323	189.000	193.000	41.100		
	278	83-373	189.000	193.000	40.900	1.120	36.180
	279	83-331	177.000	185.000	43.500	8.770	43.450
	279	83-344	177.000	188.000	43.500		
	280	83-460	194.000	191.000	46.900	1.940	41.390
	280	83-474	194.000	191.000	47.500		
	281	83-417	188.000	181.000	44.800		
	281	83-476	188.000	181.000	45.000	3.350	38.690
	282	83-513	176.000	176.000	48.400		31.600
	282	83-545	176.000	176.000	48.700		
	283	84-24	185.000	208.000	56.600		38.420
	283	84-38	185.000	208.000	57.200		
RRL-02	284	82-28	156.000	190.000	29.800		
	284	82-68	156.000	190.000	29.800	5.490	
	285	82-65	144.000	155.000	34.000	6.080	
	285	82-75	144.000	155.000	33.400		
	286	82-163	88.000	93.000	27.000		
	286	82-170	88.000	93.000	26.600	67.990	
	287	82-122	81.000	86.000	34.600	2.650	
	287	82-192	81.000	86.000	35.300		
	288	82-401	159.000	165.000	44.700	11.700	29.800
	288	82-479	159.000	165.000	44.500		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
RRL-02	289	84-43	146.000	149.000	49.200		
	289	84-7	146.000	149.000	49.500	2.810	23.650
	290	82-364	131.000	136.000	47.700	6.140	26.740
	290	82-381	131.000	136.000	48.800		
	291	82-309	134.000	132.000	36.100	19.900	45.080
	291	82-351	134.000	132.000	35.400	19.900	45.080
	292	82-413	135.000	135.000	37.100		
	292	82-456	135.000	135.000	37.300	4.680	24.430
RRL-14	294	82-403	182.000	195.000	43.600		
	294	82-489	182.000	195.000	44.000		
811-E12A	298	80-61		170.500	21.200		
	298	80-7		170.500	21.500		
	299	80-138		172.700	27.200		
	299	80-180		172.700	27.800		

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
199-B4-4	300	SITE-41		98.000	21.000		
199-D5-12	301	SITE-80		90.000	19.000		
199-D8-3	302	SITE-72		70.000	18.000		
199-F5-1	303	SITE-82		98.000	12.000		
199-H4-3	304	SITE-81		196.000	14.000		
199-K-19	305	SITE-83		72.000	6.600		
199-N-15	306	SITE-42		62.000	8.000		
299-E26-8	307	SITE-165		89.000	9.800		
299-E33-12	308	SITE-169		109.000	21.000		
399-1-3	309	SITE-43		77.000	6.000		
399-4-10	310	SITE-44		90.000	9.000		
399-8-4	311	SITE-140	120.000		16.000		
699-1-18	312	SITE-145	120.000		19.000		
699-10-E12	313	SITE-147	160.000		20.000		
699-11-45A	314	SITE-148	120.000		12.000		
699-13-1A	315	SITE-60		130.000	17.000		
699-14-38	316	SITE-61		140.000	22.000		
	317	SITE-86		148.000	23.000		
699-15-15B	318	SITE-13		123.000	14.000		
	319	SITE-149	120.000		15.000		
699-15-26	320	SITE-24		124.000	17.000		
	321	SITE-150	130.000		17.000		
699-17-5	322	SITE-18		106.000	13.000		
	323	SITE-151	100.000		23.000		
699-19-43	324	SITE-48		110.000	13.000		
	325	SITE-121		115.000	14.000		
699-2-3	326	SITE-1		126.000	16.000		
699-2-33	327	SITE-85		140.000	17.000		

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	BI	TOC	TOTAL CARBON
699-2-33	328	SITE-146	130.000		17.000		
699-20-20	329	SITE-25		116.000	17.000		
699-20-E5-0	330	SITE-49		110.000	15.000		
699-24-33	331	SITE-28		135.000	20.000		
699-24-46	332	SITE-122		156.000	29.000		
699-25-55	333	SITE-100		146.000	23.000		
699-26-15	334	SITE-26		120.000	17.000		
699-27-4	335	SITE-101		131.000	14.000		
699-27-8	336	SITE-5		119.000	17.000		
	337	SITE-30		122.000	16.000		
	338	SITE-50		110.000	17.000		
	339	SITE-74		120.000	16.000		
	340	SITE-87		123.000	17.000		
699-28-40	341	SITE-68		140.000	16.000		
699-31-31	342	SITE-69		110.000	20.000		
	343	SITE-102		109.000	23.000		
699-31-53B	344	SITE-88		164.000	21.000		
699-32-22	345	SITE-17		105.000	14.000		
	346	SITE-27		113.000	15.000		
	347	SITE-51		110.000	14.000		
	348	SITE-65		110.000	14.000		
	349	SITE-89		115.000	16.000		
699-32-70	350	SITE-70		110.000	20.000		
	351	SITE-90		123.000	21.000		
	352	SITE-152	120.000		20.000		
699-32-72	353	SITE-35		115.000	14.000		
699-32-77	354	SITE-103		106.000	23.000		
699-33-42	355	SITE-12		107.000	18.000		
	356	SITE-29		117.000	19.000		
	357	SITE-52		110.000	18.000		
	358	SITE-67		110.000	18.000		
	359	SITE-91		115.000	20.000		
699-33-56	360	SITE-8		167.000	18.000		

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
699-33-56	361	SITE-40		171.000	19.000		
	362	SITE-53		170.000	21.000		
	363	SITE-62		170.000	20.000		
	364	SITE-92		180.000	22.000		
699-34-39A	365	SITE-93		115.000	21.000		
699-34-42	366	SITE-33		113.000	20.000		
	367	SITE-153	110.000		20.000		
699-34-51	368	SITE-66		160.000	19.000		
699-35-66	369	SITE-77		140.000	18.000		
	370	SITE-94		147.000	20.000		
699-35-70	371	SITE-36		184.000	18.000		
699-35-78	372	SITE-54		98.000	17.000		
699-35-9	373	SITE-31		131.000	15.000		
	374	SITE-104		131.000	15.000		
699-36-61A	375	SITE-95		148.000	22.000		
699-37-43	376	SITE-34		151.000	23.000		
	377	SITE-173		106.000	21.000		
699-37-82A	378	SITE-105		50.000	14.000		
699-38-70	379	SITE-37		126.000	22.000		
699-4-E6	380	SITE-47		122.951	16.000		
699-40-1	381	SITE-10		120.000	17.000		
	382	SITE-106		123.000	14.000		
699-40-33	383	SITE-55		160.000	21.000		
699-40-62	384	SITE-56		140.000	24.000		
699-41-23	385	SITE-15		108.000	17.000		
	386	SITE-113		114.000	14.000		
699-42-12	387	SITE-2		118 000	18.000		
	388	SITE-155	120.000		19.000		
699-42-2	389	SITE-154	120.000		18.000		
699-42-40A	390	SITE-174			21.000		

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	BI	TOC	TOTAL CARBON
699-42-40C	391	SITE-175		106.000			
699-42-42	392	SITE-114		114.000	18.000		
699-43-88	393	SITE-123		60.000	7.000		
699-45-42	394	SITE-57		98.000	22.000		
699-45-69	395	SITE-96		98.000	20.000		
699-46-21	396	SITE-75		120.000	16.000		
	397	SITE-124		123.000	17.000		
699-46-5	398	SITE-156	120.000		19.000		
699-47-55A	399	SITE-182		104.000	18.000		
699-48-18	400	SITE-125		119.000	9.000		
699-48-71	401	SITE-59		98.000	18.000		
699-49-55	402	SITE-9		94.000	17.000		
	403	SITE-39		93.000	15.000		
	404	SITE-58		82.000	15.000		
	405	SITE-78		57.000	14.000		
	406	SITE-97		72.000	16.000		
	407	SITE-126		26.000	8.000		
	408	SITE-157	40.000		11.000		
699-49-57	409	SITE-38		113.000	18.000		
699-49-79	410	SITE-20		94.000	17.000		
699-50-28B	411	SITE-63		130.000	17.000		
699-50-42	412	SITE-14		106.000	21.000		
	413	SITE-115		42.000	5.000		
699-50-8	414	SITE-64		130.000	17.000		
699-50-85	415	SITE-127		123.000	20.000		
699-51-63	416	SITE-116		114.000	14.000		
699-53-103	417	SITE-160		140.000	26.000		
699-55-50C	418	SITE-79		110.000	11.000		
	419	SITE-128		79.000	11.000		
	420	SITE-193		109.000	12.000		

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
699-55-76	421	SITE-71		46.000	4.100		
	422	SITE-117		29.000	5.000		
	423	SITE-129		43.000	6.000		
699-55-89	424	SITE-118		131.000	23.000		
699-56-53	425	SITE-194		95.000			
	426	SITE-195		107.000			
699-57-25A	427	SITE-119		131.000	23.000		
699-57-83	428	SITE-130		115.000	16.000		
699-59-58	429	SITE-107		114.000	23.000		
699-60-57	430	SITE-198		155.000	21.000		
699-62-31	431	SITE-131		139.000	17.000		
699-63-25A	432	SITE-132		156.000	17.000		
699-63-90	433	SITE-74		120.000	20.000		
	434	SITE-133		123.000	20.000		
699-64-27	435	SITE-158	150.000		17.000		
699-65-50	436	SITE-73		110.000	17.000		
	437	SITE-134		115.000	18.000		
699-66-39	438	SITE-135		31.000	4.000		
699-66-58	439	SITE-136		107.000	17.000		
699-66-64	440	SITE-137		123.000	17.000		
699-69-38	441	SITE-6		258.000	11.000		
699-71-30	442	SITE-108		196.000	15.000		
699-71-52	443	SITE-138		107.000	13.000		
699-72-73	444	SITE-109		119.000	14.000		
699-72-88	445	SITE-98		98.000	17.000		
699-77-36	446	SITE-110		230.000	16.000		
699-78-62	447	SITE-111		114.000	14.000		
699-8-17	448	SITE-23		121.000	16.000		

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
699-8-25	449	SITE-32		126.000	16.000		
699-8-32	450	SITE-19		123.000	13.000		
699-81-58	451	SITE-159	96.000		7.000		
699-83-47	452	SITE-112		114.000	15.000		
699-87-55	453	SITE-99		98.000	18.000		
699-9-E2	454	SITE-16		131.000	17.000		
699-90-45	455	SITE-139		156.000	17.000		
699-HANFORD-19	456	SITE-3		137.705	17.000		
699-811-E12A	457	SITE-4		126.000	18.000		
699-812-3	458	SITE-45		120.000	15.000		
	459	SITE-143	130.000		15.000		
699-819-E13	460	SITE-120		131.000	17.000		
699-829-E12	461	SITE-21		157.000	16.000		
699-83-25	462	SITE-7		125.000	13.000		
	463	SITE-142	140.000		15.000		
699-83-E12	464	SITE-22		82.000	15.000		
	465	SITE-141	98.000		15.000		
699-830-E15A	466	SITE-144	200.000		15.000		
699-86-E4D	467	SITE-11		147.000	15.000		
699-88-19	468	SITE-46		160.000	18.000		
	469	SITE-84		172.000	18.000		
RRL-06A	470	82-35		116.000	21.900		
	470	82-40		116.000	21.800		

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
BENNETT SPRING	471	SITE-218		88.500	21.500		
	472	79-13		85.600	22.900		
BENSON SPRING	473	SITE-217		90.980	18.200		
BUTLER SPRING	474	79-1		93.000	19.400		
	474	79-50		93.000	19.400		
GULCH SPRING	475	84-359	147.000	147.000	21.900	13.040	46.910
	475	84-383	147.000	147.000	21.500		
JUNIPER SPRING	476	SITE-215		156.600	23.300		
	477	79-2		152.800	26.100		
	477	79-43		152.800	24.900		
	478	81-115		145.000	27.130		
	478	81-161		145.000	27.270		
	479	83-305	153.000	154.000	26.890	0.600	37.120
	479	83-372	153.000	154.000	26.450	0.600	37.120
LOWER SNIVELY SPRING	480	79-19		91.900	19.100		
	480	79-34		91.900	21.300		
	481	82-362		96.000	23.700	0.480	
	481	82-377		96.000	23.600	0.480	
	482	83-311	94.300	92.900	23.680	0.450	23.920
	482	83-396	94.300	92.900	23.500	0.450	23.920
LOZIER SPRING	483	79-44		98.700	20.900		
	483	79-6		98.700	20.700		
	484	81-116		91.420	23.340		
	484	81-186		91.420	23.220		
	485	83-316	89.000	93.000	22.760	0.670	23.530
	485	83-343	89.000	93.000	22.450	0.670	23.530
MAIDEN SPRING	486	79-67			23.900		
	486	79-96			23.700		
	487	83-420	71.000	71.000	18.640	0.380	18.980
	487	83-435	71.000	71.000	18.960	0.380	18.980
OBSERVATORY SPRING	488	84-310	94.000	96.000	17.400		
	488	84-392	94.000	96.000	17.600	0.790	22.260
	489	84-329			18.100		
	489	84-366			18.000		
	490	81-119		91.970	18.230		
	490	81-157		91.970	18.290		
	491	83-433	91.000	96.000	17.540	0.680	23.710
	491	83-461	91.000	96.000	17.730	0.680	23.710
RAILROAD SPRING	492	79-76		118.130	25.500		
	492	79-81		118.130	25.800		

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
RATTLESNAKE SPRING	493	SITE-216		136.100	21.000		
	494	79-87		202.600	25.900		
	494	79-88		202.600	25.500		
	495	83-412	200.000	203.000	23.180	1.750	51.380
	495	83-466	200.000	203.000	23.210	1.750	51.380
SNIVELY SPRING	496	79-37		79.800	20.700		
	496	79-49		79.800	20.500		
SULPHUR SPRINGS	497	79-29		97.000	24.100		
	497	79-36		97.000	24.000		
	498	83-409	102.000	99.000	23.640	0.580	27.950
	498	83-442	102.000	99.000	25.390	0.580	27.950
UNNAMED SPRING #02	499	79-75		91.350	16.300	2.600	
	499	79-93		91.350	0.000		
UNNAMED SPRING #16	500	79-73		89.800	25.500		
	500	79-82		89.800	25.600		
UNNAMED SPRING #26	501	79-54		124.220	26.100		
	501	79-98		124.220	26.100		
UNNAMED SPRING #29	502	79-16		112.400	20.230		
	502	79-24		112.400	20.230		
UPPER SNIVELY SPRING	503	79-69		71.920	21.170		
	503	79-71		71.920	21.090		
	504	81-126		74.000	20.500		
	504	81-200		74.000	20.000		
	505	83-503	76.000	77.000	21.710	0.350	18.880
	505	83-547	76.000	77.000	21.650	0.350	18.880
WARM SPRING	506	84-358	133.000	134.000	28.300	0.790	31.580
	506	84-371	133.000	134.000	28.400		

MAJOR INORGANICS FOR SURFACE

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	SI	TOC	TOTAL CARBON
COL RIV @ HANFORD TS	507	SITE-221		54.900	0.930		
COL RIV @ VERNITA BR	508	84-330			2.640		
	508	84-361			2.620		
	509	84-311	49.000	48.000	2.750	2.030	14.190
	509	84-356	49.000	48.000	2.740		
COL RIVER @ DC-14	510	83-211	61.000	65.000	3.100		
	510	83-258	61.000	65.000	3.200	1.510	16.420
COLD CREEK	513	84-317			24.000		
	513	84-336			24.000		
	514	84-302	142.000	139.000	21.000	1.390	33.000
	514	84-345	142.000	139.000	20.800		

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MAJOR INORGANICS FOR PRECIPITATION

LOCATION	REC NUM	SAMPLE NUMBER	LAB ALK	FIELD ALK	BI	TOC	TOTAL CARBON
STATION 03	516	82-51		<	0.045		
STATION 04	530	82-61			0.408		
STATION 07	546	82-92		<	0.045		
STATION 14	560	82-20			0.057		
STATION 17	576	82-70		<	0.045		
STATION 20	593	82-58			0.133		
	594	82-74		<	0.045		
STATION 25	609	82-83			0.126		
	610	82-66		<	0.045		
STATION 26	628	82-91		<	0.045		
	629	82-98		<	0.045		

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
299-E16-1	1	SITE-161	2.600	0.620		26.000			9.8
	2	SITE-162	1.400	0.610		36.000			-9.0
	3	SITE-163	1.200	0.570		31.000			2.8
	4	SITE-164	< 1.000	0.590		35.000			0.4
299-E26-8	5	SITE-166	7.900	0.510		35.000			
	6	SITE-167	7.600	0.580		18.000			2.9
	7	SITE-168	8.100	0.530		37.000			-5.5
299-E33-12	8	SITE-170	6.600	0.230		28.000			18.1
	9	SITE-171	7.300	0.200		26.000			17.1
	10	SITE-172	6.100	0.170		25.000			13.3
699-42-40C	11	SITE-177	3.000	0.660		38.000			-10.9
	12	SITE-178	4.000	0.960		17.000			-8.1
	13	SITE-179	4.000	0.840		16.000			-4.2
	14	SITE-180	3.500	0.700		15.500			
	15	SITE-176	5.100	0.850		18.000			6.1
699-47-50	16	SITE-205	30.950	0.570		107.300	7.63		
	17	SITE-181	31.000	0.660		100.000			0.7
699-49-55B	18	SITE-183	16.700	0.370		20.000			3.3
	19	SITE-184	9.600	0.260		21.000			6.4
	20	SITE-185	10.600	0.230		17.000			9.2
699-50-45	21	SITE-203	22.970	0.490		20.520	0.93		
	22	SITE-186	22.000	0.600		18.000			34.4
699-50-48	23	SITE-204	16.980	0.800		16.780	0.12		
	24	SITE-187	26.000	0.640		31.000			-7.5
699-51-46	25	SITE-201	16.980	0.460		32.850	1.18		
	26	SITE-188	16.000	0.540		28.000			-10.0
699-52-46A	27	SITE-202	25.950	0.460		21.020	0.43		
	28	SITE-189	25.000	0.470		19.000			-8.1
699-52-48	29	SITE-199	4.990	0.710		35.270			
	30	SITE-190	4.000	0.640		24.000			-12.2
699-53-50	31	SITE-200	20.990	0.420		18.930	1.05		
	32	SITE-191	21.000	0.600		29.000			-0.2
699-54-57	33	SITE-192	12.900	0.530		20.000			-11.8
699-56-53	34	SITE-196	28.000	0.200		< 1.000			8.7
	35	SITE-197	27.000	0.140		2.000			9.3
DB-01	36	CP73	16.000	3.100		0.500			-0.8

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
DB-01	36	CP82	16.200	3.100		0.500			-0.3
	38	81-18	16.000	3.490		0.270			
	38	81-19	16.700	3.660		0.210			4.0
	39	81-69	47.500	7.210		16.300			1.1
	39	81-70	47.400	7.200		16.200			0.6
	40	82-27	46.600	7.080		16.300			0.1
	40	82-87	47.500	7.140		16.600			-0.1
DB-02	43	CP74	16.800	5.400		0.500			-0.2
	43	CP83	16.900	5.500		0.500			1.3
	44	CP123	14.600	5.500		< 1.200	< 0.50	< 0.50	
	46	81-11	29.700	5.080		35.600			2.8
	46	81-13	29.900	5.140		35.700			3.1
	47	81-10	31.900	5.760		38.200			2.6
	47	81-7	31.900	5.760		38.500			3.1
DB-04	48	CP37	6.000			0.500			
	49	CP75	8.400	1.300		0.500			-3.4
	49	CP84	8.000	1.300		0.500			-3.3
	50	CP116	6.400	1.100		1.100			
	51	CP117	7.200	0.600		< 1.200			3.5
DB-05	52	CP76	28.800	1.500		2.400			1.0
	52	CP85	28.100	1.600		2.300			3.2
	53	CP112	18.100	1.700		1.100	< 0.50		5.9
	54	CP113	40.300	2.100		< 1.200			-2.7
DB-07	56	CP77	61.200	8.000		2.100			-1.6
	56	CP86	62.700	7.600		1.200			0.4
	57	CP121	55.600	7.300		2.100			
	59	83-413	56.500	7.680		0.900			0.7
	59	83-448	57.100	7.950		0.890			-0.9
DB-09	60	CP54	10.090	0.530		12.560			1.3
	61	CP59	12.300	0.760		11.700			-1.1
	62	CP78	11.100	0.700		12.500	< 0.50		0.8
	62	CP87	10.800	0.700		12.900			3.2
	63	CP114	8.100	0.600		9.600	< 0.50	0.60	4.5
	64	CP115	9.800	0.100		< 1.200			
	66	83-410	10.200	0.840		14.500			-0.4
	66	83-472	10.100	0.840		14.400			-0.3
DB-10	67	CP79	35.300	1.500		0.300			-3.0
	67	CP88	39.800	1.400		0.200			-2.6
DB-11	72	CP53	4.360	0.450		0.040			1.9
	72	CP56	4.380	0.440		0.040			3.1
	73	CP61	4.700	0.670		0.500			-1.0
	73	CP64	4.800	0.670		< 0.500			0.0
	74	CP80	4.600	0.700		0.500			0.2

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL		F	BR		SO4		NO3		PO4	CALC BAL.
DB-11	74	CP89	4.300		0.600		<	0.500					2.7
	75	81-57	4.600		0.720								
DB-12	76	63-95	4.600		0.030			19.100					-2.5
	77	CP65	7.000		0.400			18.100					1.9
	78	CP66	6.600		0.400			15.800					0.1
	79	CP67	5.000		0.600			0.500					0.2
	80	CP68	5.100		0.600			3.100					2.6
	81	81-25	5.300		0.710			0.810					-3.4
	81	81-42	5.300		0.710			0.790					-3.4
DB-13	82	CP69	4.100		0.400			18.900					0.0
	83	CP70	4.000		0.400			20.100					-0.1
	84	CP71	3.800		0.400			7.900					-1.7
	85	CP72	3.700		0.400			7.600					-1.5
	86	CP91	3.700		0.600			6.500					-1.5
	87	CP92	3.900		0.500			0.600					3.1
	88	CP96	4.300		0.300			2.900					3.8
	89	CP95	4.900		0.600			3.800					1.4
	90	CP97A	4.600		0.100			0.700					
	90	CP97B	4.600		0.100			0.700					
	92	83-404	4.590		0.490			0.140					0.2
	92	83-455	4.620		0.490			0.160					0.9
DB-14	93	CP93	5.400		0.300			38.600					2.3
	93	CP94	5.200		0.300			39.700					3.9
	94	CP98	3.300		0.200			6.500					-2.8
	95	CP99	4.000		0.200			6.450					0.0
	96	CP100	3.600		0.400			0.500					-0.3
	97	CP101	3.700		0.400			0.700					-0.8
	98	CP102	15.500		0.400			3.200					-2.9
	99	CP103	10.900		0.100			2.400					-2.4
	100	CP119	7.600		0.700			3.300					3.8
	101	81-139	129.000		9.490		<	0.500					-1.5
	101	81-162	129.000		9.440		<	0.500					-3.9
DB-15	102	79-17	7.700	<	0.300			37.100		7.00	<	1.20	6.9
	102	79-4	7.800	<	0.300			39.700		6.40	<	1.20	5.8
	103	79-20	3.500		0.900		<	1.200	<	0.60		0.90	1.8
	103	79-35	3.400		0.800		<	1.200	<	0.60			3.2
	104	79-27	7.400		3.000		<	1.200	<	0.60		7.40	0.9
	104	79-33	7.200		3.000		<	1.200	<	0.60		0.90	0.5
	105	79-15	8.800		3.000		<	1.200	<	0.60			0.4
	105	79-46	9.400		2.900		<	1.200	<	0.60		5.20	0.7
	106	79-39											
	106	79-8											
	107	79-31	6.900		0.900			2.900		0.50			2.3
	107	79-5	6.900		1.000			2.800	<	0.50		0.90	3.4
	109	79-51	117.000		21.800			10.900	<	0.50	<	1.00	1.0
	109	79-61	107.000		19.300			9.400	<	0.50	<	1.00	3.6

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL.	F	BR	SO4		NO3		PO4	CALC BAL.
DB-15	110	79-74	105.000	19.000		9.600	<	0.50	<	1.00	7.0
	110	79-85	105.000	19.100		10.200	<	0.50	<	1.00	6.0
	111	79-80	104.000	19.000		6.800	<	0.50	<	1.00	5.8
	111	79-99	104.000	19.000		6.800	<	0.50	<	1.00	5.5
	112	79-62	97.800	16.900		20.100		2.90	<	0.50	1.4
	112	79-84	98.000	17.000		20.100	<	0.50	<	0.50	3.6
	113	79-90	94.600	16.800		19.800	<	0.50	<	0.50	3.8
	113	79-95	96.800	17.000		19.800	<	0.50	<	0.50	3.1
	114	80-35	109.000	18.400		16.300					4.5
	114	80-41	103.000	18.000		16.500					5.2
	115	80-24	111.000	19.500		17.800					0.3
	115	80-74	108.000	19.300		17.500					-0.5
	116	80-42	102.000	17.400		18.400					0.5
	116	80-77	101.000	17.600		18.700					0.1
	117	80-1	105.000	19.800		9.400	<	0.50	<	0.50	3.3
	117	80-91	105.000	19.500		9.400	<	0.50	<	0.50	3.4
DC-01	118	SITE-230	11.000	0.500		19.000		0.50		0.01	-0.2
	119	SITE-226	3.900	1.000		0.400		0.20		0.25	0.0
	120	SITE-227	68.000	10.000		0.400		0.20		0.14	-0.4
	121	SITE-228	85.000	13.000		1.800				0.07	0.2
	122	SITE-229	83.000	15.000		5.600					-0.9
	123	SITE-231	7.700	0.800		12.000		0.20		0.08	-0.5
	124	SITE-232	4.200	1.000				0.20		0.17	
	125	SITE-233	13.000	1.700				0.20		0.16	
	126	SITE-234	49.000	7.500		1.600		0.30		0.21	-0.2
	127	SITE-235	120.000	16.000		2.000		0.10		0.08	0.4
	128	SITE-236	120.000	20.000		10.000		0.20		0.01	3.7
	129	SITE-237	110.000	20.000		12.000		0.30		0.05	-0.2
	130	SITE-238	13.000	2.000		3.600		0.30		0.09	-0.8
	131	SITE-239	98.000	21.000		13.000					
	132	SITE-240	94.000	20.000		12.000					-0.6
	133	SITE-241	98.000	20.000		10.000		0.20		0.01	-1.4
	134	SITE-242	90.000	18.100		14.000					-0.2
	135	SITE-243	68.000	11.000		21.000					
DC-02A	136	80-25	75.500	17.700		44.200					17.4
	136	80-4	74.600	20.800		45.300					8.8
	137	SITE-213	95.000	21.000		26.000					
DC-03	138	80-27	6230.000	40.800		720.000					8.1
	138	80-81	7392.000	13.700		162.000					1.9
DC-05	139	79-30	36.600	14.000	<	0.500	<	0.50	<	0.50	52.2
	139	79-32	36.400	13.300	<	0.500	<	0.50	<	0.50	53.4
DC-06	140	80-147	110.000	34.700		74.100					
	140	80-161	112.000	35.100		75.900					
	141	80-22	130.000	30.600		113.000					
	141	80-72	130.000	31.100		111.000					

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
DC-06	142	SITE-214	125.000	41.000		96.000			
	143	80-201	129.000	39.900		95.200			-7.1
	143	80-238							
	144	80-186	296.000	22.400		197.000			-1.5
	144	80-191	290.000	22.200		194.000			1.2
	145	80-13	258.000	21.400		111.000			18.8
	145	80-58	259.000	21.500		111.000			20.1
	146	79-59							
	146	79-97							
	147	81-45	145.000	35.600		163.000			-4.2
	147	81-8	146.000	35.900		161.000			-4.4
	148	80-118	166.000	42.200		190.000			2.2
	148	80-133	152.000	36.600		193.000			4.6
	149	80-15	211.000	35.400		189.000	1.30		8.5
	149	80-70	34.100	24.100		184.000	6.20		34.9
	150	81-76	289.000	35.600		177.000			1.4
	150	81-82	289.000	35.600		177.000			1.6
	151	80-29	96.300	34.000		79.500			-0.1
	151	80-37	96.300	39.000		79.000			0.5
	152	79-57	108.000	30.600		81.400			-0.8
	152	79-58	105.000	31.200		81.600			-1.3
	153	80-45	76.900	40.400		157.000			-1.9
	153	80-75	79.000	41.100		157.000			-2.5
DC-07	154	82-23	126.000	37.000		74.000			-0.7
	154	82-56	126.000	36.800		74.800			-2.6
	155	82-10	137.000	39.000		83.000			3.1
	155	82-33	136.000	39.000		83.000			3.0
	156	80-39	40.900	10.000		23.400			3.1
	156	80-98	39.600	10.800		26.000			2.9
	157	80-11	97.500	24.500		78.700			2.3
	157	80-19	96.800	24.400		77.500			2.4
	158	79-52							
	158	79-55							
	159	80-103	171.000	34.900		225.000			-0.9
	159	80-163	180.000	41.400		232.000			-5.5
	160	80-178	418.000	22.000		173.000			-0.6
	160	80-188	420.000	22.200		175.000			1.0
	161	80-177	386.000	22.100		172.000			0.6
	161	80-196	332.000	20.800		153.000			4.9
DC-12	162	80-62	103.000	10.300		3.300			2.9
	162	80-80	104.000	10.100		2.800			3.8
	163	80-100	96.500	8.900					
	163	80-63	95.600	8.900					
	164	80-73	105.000	8.200		1.400			-3.0
	164	80-97	103.000	8.200		1.200			-3.7
	165	80-32							
	165	80-68	109.000	9.500		5.900		1.80	22.8
	166	80-23	89.500	6.000					

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
DC-12	166	80-82	89.600	6.600					
	167	80-102	102.000	10.300					
	167	80-124	103.000	9.800					
	168	80-101	107.000	13.000					
	168	80-169	107.000	13.100					
	169	80-143	103.000	12.600					
	169	80-174	127.000	13.600		1.700			-2.4
	170	80-209	110.000	13.200		2.200			3.3
	170	80-242	101.000	12.300					
	171	80-233	116.200	13.400					
	171	80-243	113.300	13.900		1.300			-4.4
	172	80-208	104.000	12.300		15.400			-3.4
	172	80-234	103.000	12.600		13.500			-3.7
	173	81-61	130.000	12.900		4.200			-1.2
	173	81-72	130.000	12.900		4.200			-0.6
	174	82-47	127.000	13.700		2.960			0.6
	174	82-85	132.000	13.700		3.250			-0.1
DC-14	175	80-3	5.900	1.100		28.100			-0.4
	175	80-34	5.700	1.000		28.100			-0.9
	176	80-16	6.700	0.800		24.000			0.8
	176	80-53	6.500	0.800		23.500			0.0
	177	80-47	4.900	0.600		17.600	2.70		-2.7
	177	80-85	5.000	0.600		18.100	2.70		-0.3
	178	80-49	5.900	1.500		17.600			4.1
	178	80-83	7.400	2.900		18.800			2.6
	179	80-55	7.000	2.900		19.600			1.3
	179	80-99	5.900	2.300		19.600			2.1
	180	80-36	7.000	2.900		14.300			3.8
	180	80-89	5.500	2.100		19.300	0.70		4.6
	181	80-2	11.900	1.600		29.100		4.10	1.1
	181	80-71	11.800	1.500		29.100			1.3
	182	80-136	6.200	0.900		21.800			1.1
	182	80-144	6.300	1.000		21.200			2.6
	182	80-199			< 0.050				
	183	80-105			< 0.050				
	183	80-127	6.200	1.000		24.200			1.0
	183	80-189	6.300	1.000		24.200			-0.3
	184	80-112	6.600	0.800		16.600			2.8
	184	80-168	6.900	0.900	< 0.050	16.600			1.4
	185	80-157	7.000	2.200					
	185	80-183	7.000	2.200					
	186	80-155	6.900	2.200		20.500			0.3
	186	80-185	6.900	2.100	< 0.050	20.500			2.5
	187	80-104	5.100	1.800				0.80	
	187	80-125							
	187	80-148			< 0.050				
	188	80-115		2.300		16.600			
	188	80-129		2.300		17.800			
	189	80-156	5.100	2.200		18.600			-0.1

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
DC-14	189	80-170	5.100	2.200		18.600			-0.5
	189	80-195			< 0.050				
	190	80-109			< 0.050				
	190	80-117	7.000	3.600		24.800			6.4
	190	80-151	7.200	3.600		24.700			7.2
	191	80-213	70.200	24.300		18.700		< 0.50	-7.1
	191	80-225			0.210				
	191	80-236	70.600	24.400		18.700			-6.2
	192	81-20	222.000	22.000		169.000			-6.9
	192	81-22	217.000	21.600		166.000			-5.0
	193	81-16	231.000	40.700	0.420	145.000			1.1
	193	81-30	231.000	40.600		144.000			1.2
	194	81-44	237.000	47.100		135.000			-0.1
	194	81-47	237.000	46.300		135.000			
	195	81-141	258.000	50.000	0.440	112.000			3.0
	196	81-21	67.100	15.200		58.400			0.7
	196	81-29	65.800	15.000	0.140	57.100			1.2
	197	81-63			0.340				
	197	81-91	185.000	36.200		105.000			0.4
	197	81-99	186.000	36.200		105.000			-0.1
	198	81-163	214.000	41.900		122.000			-0.2
	198	81-90	214.000	41.800	0.380	122.000			0.5
	199	81-114			0.360				
	199	81-138	224.000	43.700		130.000			0.1
	199	81-188	224.000	43.800		129.000			-0.3
	200	82-31			0.400				
	200	82-42	249.000	44.000		134.000			-0.1
	200	82-8	247.000	44.000		134.000			-1.0
	202	83-156	253.000	48.400		141.000			0.2
	202	83-197	253.000	48.400		147.000			-0.4
	203	83-152	254.000	48.700		141.000			-0.1
	203	83-193	254.000	48.900		141.000			-0.7
	204	83-157	254.000	50.700		140.000			-0.9
	204	83-179	254.000	49.900		140.000			-0.8
	205	83-103	254.000	48.500		140.000			-1.3
	205	83-178	253.000	48.300		140.000			-1.0
	206	83-123	254.000	49.800		141.000			-1.5
	206	83-183	254.000	49.800		141.000			-1.7
	207	83-154	254.000	50.100		141.000			-1.0
	207	83-191	254.000	50.800		140.000			-1.2
	208	83-108	253.000	49.000		140.000			-0.1
	208	83-150	253.000	49.000		140.000			0.0
	209	83-233	252.000	50.100		140.000			-0.5
	209	83-266	251.000	50.100		140.000			-1.9
	210	83-203	251.000	48.900		138.000			-0.7
	210	83-261	251.000	48.900		138.000			-0.6
DC-15	211	80-31	11.300	1.200					
	211	80-56	11.300	1.200					
	212	80-54	8.100	1.000					

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
DC-15	212	80-76	7.800	1.000					
	213	80-57	15.500	1.100					
	213	80-65	9.800	0.700					
	214	80-87	17.900	2.000					
	214	80-94	17.800	2.000					
	215	80-137	46.800	11.500		2.000			-4.0
	215	80-197	46.900	11.400		2.400			-3.0
	216	80-130	35.200	8.900					
	216	80-176	38.600	9.500					
	216	80-999	35.900	9.000					
	217	80-135	40.100	9.100		2.700	< 0.50	< 0.50	0.8
	217	80-149	39.700	9.300					
	218	80-120	44.500	10.900		1.300			-1.9
	218	80-139	44.500	10.900		1.300			-2.9
	219	80-108	66.000	12.100		7.500			-4.2
	219	80-131	64.700	11.800		7.500			-1.3
	220	80-114	70.700	8.600		4.800			-3.6
	220	80-193	72.200	8.600		4.800			-6.3
	221	81-24	170.000	11.500		140.000			-5.6
	221	81-41	165.000	11.500		141.000			-4.7
	222	81-2	224.000	18.400		119.000			-7.2
	222	81-36	224.000	18.300		119.000			-6.0
	223	81-46	183.000	17.500		139.000			1.2
	223	81-50	182.000	17.400		139.000			1.5
	224	81-32	206.000	22.900		198.000			-5.1
	224	81-33	205.000	22.800		198.000			-0.8
	225	81-27	189.000	32.600		131.000			-0.5
	225	81-74	190.000	32.800		133.000			-1.2
	226	81-64	308.000	23.500		214.000			0.9
	226	81-80	308.000	23.500		214.000			-0.1
	227	81-66	210.000	22.700		171.000			
	227	81-85	222.000	21.800		175.000			-3.8
	227	81-96							
	228	81-69	224.000	21.700		175.000			-3.3
	228	81-84	224.000	21.700		175.000			-4.8
	229	82-41	138.000	46.900		105.000			1.0
	229	82-94	137.000	46.300		107.200			2.2
DC-16A	230	81-109	3.620	0.480		22.100			4.8
	230	81-167	3.570	0.480		21.800			1.8
	231	82-17	3.580	0.470		4.430			0.7
	231	82-55	3.570	0.470		4.470			0.9
	232	82-45	5.100	0.700		4.600			-3.4
	232	82-93	4.900	0.620		4.600			-3.1
	233	82-19	146.000	9.500		2.000			0.4
	233	82-88	147.000	9.900		2.000			0.3
	234	82-140	170.000	9.900		1.200			0.2
	234	82-188	172.000	10.000		1.200			-0.2
	235	82-124	110.000	13.000		1.900			0.6
	235	82-172	109.000	13.000		1.900			0.1

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
DC-16A	236	82-126	308.000	10.900		6.700			-1.0
	236	82-143	309.000	10.800		6.510			-1.1
	237	82-202	263.000	12.300	0.420	6.100			0.3
	237	82-228	265.000	12.400	0.470	5.950			2.3
	239	82-322	442.000	24.100	0.680	2.260			-1.5
	239	82-361	438.000	24.000	0.580	2.260			-1.8
	240	82-332	451.000	26.100		2.600			
	240	82-358	451.000	25.900		2.520			
	242	82-430	414.000	27.600		8.420			-1.9
	242	82-473	411.000	27.300		8.420			-0.3
	243	83-29	422.000	26.600		5.500			-0.1
	243	83-41	427.000	26.900		5.600			-0.9
DC-16B	244	83-147	7.360	0.740					
	244	83-185	7.360	0.770					
DC-16C	245	83-100	367.000	23.900		3.980			-2.9
	245	83-30	364.000	23.600		4.000			-3.1
	246	83-215	188.000	11.200		1.580			-1.0
	246	83-259	188.000	11.200		1.580			-0.9
DC-19C	247	84-53	180.000	15.100		21.900			-0.3
	247	84-84	175.000	14.900		21.400			1.2
	248	84-40	181.000	14.600		9.890			-0.0
	248	84-77	180.000	14.500		9.750			0.7
	249	84-29	202.000	15.700		14.800			-1.7
	249	84-75	202.000	15.800		14.800			-2.8
	250	84-18	185.000	14.600		4.630			-2.2
	250	84-86	185.000	14.600		4.580			-2.2
DC-20C	251	84-49	164.000	10.600		7.790			-0.1
	251	84-9	164.000	10.600		7.790			-0.1
DC-22C	252	84-105	103.000	7.630		2.160			3.3
	252	84-153	107.000	7.610		2.200			1.9
ENYEART	253	SITE-209	5.400	0.600		1.800	0.10		-0.1
	254	SITE-210	4.800	0.400			0.20		
	255	84-166	4.670	1.000					
	255	84-184	4.650	0.780					
FORD	257	SITE-206	5.800	0.500		1.800	0.10		-0.0
	258	SITE-207	4.400	0.700		0.200	0.00		-0.1
	259	SITE-219	4.870	0.620	<	2.000			-10.4
MCGEE	260	SITE-224	5.200	0.500		0.000	0.20	0.02	
	261	SITE-222	4.400		<	2.000		0.03	
	262	SITE-223	4.500	0.700		0.000	0.00	0.03	
	263	SITE-225	4.000	0.800	<	0.500	< 0.25		
	264	SITE-220	4.820	0.800	<	2.000			-2.5

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
MCGEE	265	82-52	4.400	0.600					
	265	82-7	4.600	0.700					
	266	80-64	5.000	0.700		7.200			-1.0
	266	80-88	4.800	0.700					
	267	81-73	4.100	0.670					
	267	81-79	4.150	0.700					
	268	81-54	4.100	0.650					
	268	81-56	4.150	0.650					
	269	82-11	4.800	0.700					
	269	82-64	4.700	0.700					
	270	82-105	4.700	0.700					
	270	82-164	4.500	0.600					
	270	82-183	4.300	0.600					
	271	82-263	4.120	0.610					
	271	82-283	4.120	0.610					
	272	82-325	4.820	0.580					
	272	82-397	4.940	0.580					
	273	82-424	5.070	0.650					
	273	82-474	4.890	0.640					
	274	82-436	4.200	0.650		0.200			-1.2
	274	82-498	4.300	0.650		0.200			-0.9
	275	83-32	4.600	0.640		0.090			-2.5
	275	83-63	4.600	0.640		0.090			-2.1
	276	83-27	5.000	0.640		0.050			-2.0
	276	83-83	5.000	0.640		0.050			-1.3
	277	83-113	4.800	0.630					
	277	83-188	4.900	0.630					
	278	83-323	6.820	3.660		1.660			-2.3
	278	83-373	6.820	3.660		1.660			-2.4
	279	83-331	7.490	3.410		1.620			-0.8
	279	83-344	7.600	3.480		1.630			-0.1
	280	83-460	7.060	3.520		0.260			-0.9
	280	83-474	7.060	3.520		0.240			-0.0
	281	83-417	7.600	3.500	0.170	0.450			2.1
	281	83-476	7.570	3.510	0.170	0.450			2.3
	282	83-513	48.400	11.000		1.110			0.4
	282	83-545	48.400	10.700		1.140			0.6
	283	84-24	48.400	9.300		6.230			-1.4
	283	84-38	48.800	9.300		6.250			-3.0
RRL-02	284	82-28	133.000	8.500		1.600			-2.1
	284	82-68	133.000	8.500		1.600			-2.1
	285	82-65	122.000	8.600		2.000			-2.9
	285	82-75	123.000	9.400		2.000			-4.1
	286	82-163	346.000	15.000		21.000	2.30		3.6
	286	82-170	325.000	15.000		21.000			5.3
	287	82-122	507.000	21.700		1.400			-0.4
	287	82-192	508.000	21.400		1.500			0.3
	288	82-401	403.000	20.000		4.200			-2.2
	288	82-479	406.000	20.000		4.200			-2.4

MAJOR INORGANICS FOR CONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
RRL-02	289	84-43	420.000	14.000	0.660	0.970			0.5
	289	84-7	416.000	14.000	0.690	0.950			1.1
	290	82-364	451.000	18.200		1.700			-2.0
	290	82-381	448.000	18.000		1.700			-0.9
	291	82-309	384.000	17.200		3.540			1.8
	291	82-351	383.000	17.100		3.680			0.9
	292	82-413	454.000	20.100		2.400			-2.4
	292	82-456	455.000	20.100		2.400			-1.7
RRL-14	294	82-403	357.000	24.300		16.800			-0.6
	294	82-489	356.000	23.700		16.800			-0.6
811-E12A	298	80-61	13.800	0.700					
	298	80-7							
	299	80-138	148.000	7.700					
	299	80-180	148.000	7.700					

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
199-B4-4	300	SITE-41	6.600	0.200	0.100	42.000	1.10		2.3
199-D5-12	301	SITE-80	16.000	0.200	0.100	46.000	16.00	0.09	-3.2
199-D8-3	302	SITE-72	11.000	0.200	0.100	51.000	3.30		6.3
199-F5-1	303	SITE-82	2.600	0.100		14.000	4.00	0.06	-1.4
199-H4-3	304	SITE-81	8.800	0.300	0.300	160.000	1700.00	0.25	-1.6
199-K-19	305	SITE-83	2.600	0.200		42.000	5.30	0.03	-5.0
199-N-15	306	SITE-42	2.500	0.100		16.000	4.90		5.1
299-E26-8	307	SITE-165	9.500	0.680		29.000			5.1
299-E33-12	308	SITE-169	5.800	2.600		70.000			22.1
399-1-3	309	SITE-43	31.000	0.500	0.100	25.000	4.10		1.1
399-4-10	310	SITE-44	12.000	0.900	7.000	27.000	3.30		3.1
399-8-4	311	SITE-140	8.600	0.300		23.000			0.9
699-1-18	312	SITE-145	9.900	0.400	< 0.010	67.000			3.2
699-10-E12	313	SITE-147	8.200	0.300		29.000			3.7
699-11-45A	314	SITE-148	5.200	0.300		18.000			0.6
699-13-1A	315	SITE-60	7.700	0.400	0.100	39.000	2.00		2.1
699-14-38	316	SITE-61	4.200	0.500	0.100	20.000			1.9
	317	SITE-86	4.000	0.400		21.000	0.58	0.09	-5.7
699-15-15B	318	SITE-13	6.000	0.400	0.100	57.000	16.00		-2.9
	319	SITE-149	6.700	0.300	< 0.010	84.000			3.1
699-15-26	320	SITE-24	9.800	0.500	0.100	57.000	29.70		-0.3
	321	SITE-150	9.900	0.400	< 0.010	60.000			4.5
699-17-5	322	SITE-18	14.000	0.300	0.100	53.000	53.00		1.6
	323	SITE-151	19.000	0.200	0.200	65.000			
699-19-43	324	SITE-48	6.900	0.500	0.100	67.000	2.30		1.6
	325	SITE-121	7.400	0.400	0.100	71.000			-0.3
699-2-3	326	SITE-1	8.900	0.300	0.100	48.000	22.00		-0.6
699-2-33	327	SITE-85	5.600	0.400	0.100	34.000	1.40	0.21	-3.2

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
699-2-33	328	SITE-146	5.800	0.300	0.200	36.000			1.5
699-20-20	329	SITE-25	14.000	0.400	0.100	51.000	53.00		-0.3
699-20-E5-0	330	SITE-49	6.400	0.300	0.100	24.000	2.50		5.0
699-24-33	331	SITE-28	9.200	0.600	0.100	64.000	27.40		-0.7
699-24-46	332	SITE-122	3.400	0.400		22.000			-3.7
699-25-55	333	SITE-100	7.000	0.600	0.100	34.000	15.00		-0.6
699-26-15	334	SITE-26	13.000	0.400		55.000	39.30		-0.9
699-27-4	335	SITE-101	6.800	0.300	0.100	27.000			7.0
699-27-8	336	SITE-5	13.000	0.200	0.100	46.000	58.00		1.3
	337	SITE-30	13.000	0.300		50.000	57.40		-2.0
	338	SITE-50	12.000	0.300	0.100	52.000	13.10		10.6
	339	SITE-76	11.000	0.300	0.100	49.000	13.10		9.7
	340	SITE-87	13.000	0.300	0.100	56.000	58.00	0.06	-5.2
699-28-40	341	SITE-68	7.500	0.500	0.100	55.000	3.00		2.6
699-31-31	342	SITE-69	10.000	0.700	0.100	54.000	11.20		10.3
	343	SITE-102	11.000	0.700	0.100	58.000			6.2
699-31-53B	344	SITE-88	6.300	0.400	0.100	33.000	8.00	0.09	-4.5
699-32-22	345	SITE-17	17.000	0.400	0.100	66.000	75.00		1.3
	346	SITE-27	17.000	0.400		65.000	61.90		0.5
	347	SITE-51	28.000	0.400	0.100	64.000	16.10		4.6
	348	SITE-65	14.000	0.400	0.100	61.000	16.50		10.5
	349	SITE-89	15.000	0.400		66.000	75.00	0.06	-5.3
699-32-70	350	SITE-70	13.000	0.500	0.100	25.000	4.20		8.0
	351	SITE-90	12.000	0.500		24.000	18.00	1.20	-4.0
	352	SITE-152	12.000	0.400	< 0.010	25.000			3.1
699-32-72	353	SITE-35	16.000	0.400	0.100	27.000	5.30		-3.5
699-32-77	354	SITE-103	11.000	0.800		20.000	< 6.60		4.0
699-33-42	355	SITE-12	3.100	0.600	0.100	2.400	49.00		19.9
	356	SITE-29	11.000	0.700		60.000	34.50		-1.9
	357	SITE-52	12.000	0.700	0.100	55.000	7.10		4.9
	358	SITE-67	14.000	0.700	0.100	52.000	6.00		7.1
	359	SITE-91	16.000	0.600	0.100	59.000	24.00	0.06	-1.8
699-33-56	360	SITE-8	7.600	0.300	0.100	36.000	11.00		-0.1

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
699-33-56	361	SITE-40	7.300	0.400		30.000	10.70		-1.9
	362	SITE-53	7.700	0.500	0.100	34.000	2.50		2.7
	363	SITE-62	7.800	0.500	0.100	33.000			4.0
	364	SITE-92	7.600	0.500	0.100	32.000	9.70	0.09	-4.4
699-34-39A	365	SITE-93	11.000	0.600		50.000	33.00	0.09	-2.3
699-34-42	366	SITE-33	11.000	0.700		54.000	44.20		-1.3
	367	SITE-153	11.000	0.600	< 0.010	45.000			4.2
699-34-51	368	SITE-66	8.200	0.500	0.100	47.000	2.40		3.4
699-35-66	369	SITE-77	11.000	0.400	0.100	27.000	5.60		5.6
	370	SITE-94	14.000	0.400	0.100	28.000	25.00	0.12	-3.5
699-35-70	371	SITE-36	16.000	0.400	0.200	26.000	22.90		1.8
699-35-78	372	SITE-54	6.900	0.500		13.000	0.24		2.0
699-35-9	373	SITE-31	8.700	0.400	0.100	30.000	19.50		-1.1
	374	SITE-104	11.000	0.400	0.100	38.000			2.0
699-36-61A	375	SITE-95	7.700	0.400	0.100	32.000	17.00	0.09	-0.2
699-37-43	376	SITE-34	3.600	0.600		45.000	0.90		-2.6
	377	SITE-173	19.000	0.460		305.000			0.8
699-37-82A	378	SITE-105	13.000	0.300	0.100	59.000	< 43.00		5.5
699-38-70	379	SITE-37	32.000	0.400	0.200	24.000	256.00		0.0
699-4-E6	380	SITE-47	7.100	0.400		40.000			2.5
699-40-1	381	SITE-10	6.900	0.400	0.100	26.000	24.00		3.4
	382	SITE-106	9.300	0.400	0.100	31.000	< 32.00		1.0
699-40-33	383	SITE-55	3.600	0.900		2.700	0.01		1.0
699-40-62	384	SITE-56	8.300	0.400	0.100	39.000	4.40		3.9
699-41-23	385	SITE-15	15.000	0.400		77.000	53.00		0.6
	386	SITE-113	9.600	0.500		61.000	40.00		0.3
699-42-12	387	SITE-2	13.000	0.400	0.100	49.000	28.00		1.9
	388	SITE-155	12.000	0.400	< 0.010	60.000			7.4
699-42-2	389	SITE-154	11.000	0.300	< 0.010	38.000			6.4
699-42-40A	390	SITE-174	7.000	0.700		37.000			

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
699-42-40C	391	SITE-175	6.700			29.000			
699-42-42	392	SITE-114	14.000	0.500	0.100	57.000	< 36.00		4.0
699-43-88	393	SITE-123	21.000	0.300	0.300	57.000			5.5
699-45-42	394	SITE-57	3.800	0.600		29.000	3.30		5.1
699-45-69	395	SITE-96	20.000	0.400	0.200	62.000	34.00	0.03	-2.7
699-46-21	396	SITE-75	12.000	0.500	0.100	54.000	2.80		5.0
	397	SITE-124	17.000	0.500	0.100	61.000			0.5
699-46-5	398	SITE-156	12.000	0.400	< 0.010	52.000			-8.7
699-47-55A	399	SITE-182	21.000	0.540		209.000			-0.9
699-48-18	400	SITE-125	11.000	0.200	0.100	52.000			1.4
699-48-71	401	SITE-59	11.000	0.500	0.100	24.000	5.10		5.2
699-49-55	402	SITE-9	24.000	0.300	0.200	150.000	12.00		0.6
	403	SITE-39	23.000	0.500	0.400	150.000	12.00		-0.6
	404	SITE-58	23.000	0.500	0.200	190.000	3.70		1.5
	405	SITE-78	25.000	0.500	0.300	180.000	3.70		1.6
	406	SITE-97	28.000	0.400	0.200	170.000	16.00	0.03	-1.9
	407	SITE-126	26.000	0.300	0.200	210.000			-2.2
	408	SITE-157	22.000	0.400	0.200	230.000			0.7
699-49-57	409	SITE-38	9.200	0.900	0.100	99.000	270.00		-0.7
699-49-79	410	SITE-20	11.000	0.300	0.300	45.000	44.00		0.8
699-50-28B	411	SITE-63	8.400	0.600	0.100	28.000	0.72		0.8
699-50-42	412	SITE-14	11.000	0.500	0.100	39.000	3.10		2.2
	413	SITE-115	12.000	0.500	0.100	39.000	0.09		1.3
699-50-8	414	SITE-64	11.000	0.400	0.100	45.000	3.00		3.7
699-50-85	415	SITE-127	11.000	0.300		21.000			2.9
699-51-63	416	SITE-116	9.500	0.500	0.100	22.000	< 7.10		1.0
699-53-103	417	SITE-160	4.500	0.800	0.100	1.400			1.1
699-53-50C	418	SITE-79	2.700	0.200	0.100	12.000	2.80		-0.6
	419	SITE-128	3.000	0.200		15.000			9.9
	420	SITE-193	2.000	0.270		18.000			-13.2

MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4		NO3	PO4	CALC BAL.
699-55-76	421	SITE-71	21.000	0.400	0.500	85.000		0.37		2.4
	422	SITE-117	17.000	0.400	0.200	83.000	<	0.58		-2.1
	423	SITE-129	17.000	0.300	0.200	46.000				0.6
699-55-89	424	SITE-118	7.500	0.300	0.100	19.000	<	2.40		-1.6
699-56-53	425	SITE-194	3.700			8.400				
	426	SITE-195	3.700			8.400				
699-57-25A	427	SITE-119	6.100	0.600	0.100	24.000		3.30		3.2
699-57-83	428	SITE-130	7.500	0.300	0.100	20.000				-0.7
699-59-58	429	SITE-107	5.900	1.400		16.000	<	0.93		8.3
699-60-57	430	SITE-198	13.000	1.600		1.800				-3.4
699-62-31	431	SITE-131	5.300	0.400		31.000				-1.8
699-63-25A	432	SITE-132	11.000	0.300	0.100	80.000				3.1
699-63-90	433	SITE-74	9.100	0.400	0.100	28.000		1.29		2.7
	434	SITE-133	21.000	0.300	0.100	30.000				-6.0
699-64-27	435	SITE-158	30.000	0.200	0.200	190.000				4.4
699-65-50	436	SITE-73	6.300	1.000	0.100	15.000		0.32		4.7
	437	SITE-134	7.200	1.100		16.000				-1.2
699-66-39	438	SITE-135	21.000	0.300	0.100	100.000				-0.8
699-66-58	439	SITE-136	6.200	0.800		20.000				0.2
699-66-64	440	SITE-137	5.000	0.500		17.000				-2.0
699-69-38	441	SITE-6	14.000	0.100	0.100	64.000		15.00		2.0
699-71-30	442	SITE-108	16.000	0.500	0.200	57.000	<	27.00		-1.9
699-71-52	443	SITE-138	7.300	0.400	0.100	45.000				1.7
699-72-73	444	SITE-109	5.100	0.400		18.000		40.00		-8.7
699-72-88	445	SITE-98	3.900	0.200		42.000		3.40	0.15	-3.9
699-77-36	446	SITE-110	12.000	0.700	0.200	44.000	<	160.00		3.8
699-78-62	447	SITE-111	4.300	0.500	0.100	47.000	<	4.00		-1.7
699-8-17	448	SITE-23	11.000	0.400	0.100	61.000		29.60		-1.8

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MAJOR INORGANICS FOR UNCONFINED

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
699-8-25	449	SITE-32	8.500	0.400	0.100	66.000	23.00		-1.1
699-8-32	450	SITE-19	5.500	0.400	0.100	45.000	9.30		0.4
699-81-58	451	SITE-159	1.300	0.100		15.000			0.5
699-83-47	452	SITE-112	4.300	0.500	0.100	46.000	< 4.90		-1.7
699-87-55	453	SITE-99	3.800	0.400		25.000	13.00		0.9
699-9-E2	454	SITE-16	3.500	0.400		28.000	1.20		2.0
699-90-45	455	SITE-139	3.700	0.600		23.000			-3.3
699-HANFORD-19	456	SITE-3	3.100	0.400		20.000			1.2
699-811-E12A	457	SITE-4	5.800	0.300	0.100	25.000	22.00		1.2
699-812-3	458	SITE-45	18.000	0.600	0.200	43.000	1.90		2.9
	459	SITE-143	17.000	0.400	0.100	44.000			0.8
699-819-E13	460	SITE-120	24.000	0.400	0.100	41.000			-2.0
699-829-E12	461	SITE-21	8.100	0.400	0.100	24.000	14.10		-1.4
699-83-25	462	SITE-7	23.000	0.500	0.100	81.000	0.27		1.5
	463	SITE-142	22.000	0.500		99.000			1.3
699-83-E12	464	SITE-22	3.700	0.500	0.100	25.000	13.70		-0.8
	465	SITE-141	4.600	0.300		15.000			2.7
699-830-E15A	466	SITE-144	4.100	0.200		18.000			4.0
699-86-E4D	467	SITE-11	3.400	0.400	0.200	2.200	6.60		15.2
699-88-19	468	SITE-46	22.000	1.300	0.100	12.000	0.96		3.3
	469	SITE-84	22.000	1.300	0.100	13.000	3.90	0.12	-1.9
RRL-06A	470	82-35	13.800	0.500		46.100	27.40		1.2
	470	82-40	13.800	0.500		45.800	27.00		1.5

MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	CL	F	BR	SO4	NO3	PO4	CALC BAL.
BENNETT SPRING	471	SITE-218	5.870	0.270		10.000			0.1
	472	79-13	13.700	2.300		16.900	19.00		-6.3
BENSON SPRING	473	SITE-217	3.120	0.280		11.000			-9.0
BUTLER SPRING	474	79-1	5.400	0.100		18.700	9.70	1.60	-4.9
	474	79-50	4.800	0.100		18.400	8.00	2.20	-3.7
GULCH SPRING	475	84-359	23.000	0.400		31.800	21.40		1.4
	475	84-383	22.700	0.400		31.500	21.20		1.0
JUNIPER SPRING	476	SITE-215	4.670	0.500		18.000			-9.8
	477	79-2	6.900	0.600		30.900	< 0.60	< 1.20	3.0
	477	79-43	6.900	0.600		30.500	< 0.60	< 1.10	0.7
	478	81-115	4.630	0.530		12.000			4.9
	478	81-161	4.630	0.530		12.000			5.5
	479	83-305	6.110	0.460		28.750			1.7
	479	83-372	6.110	0.460		28.570			-0.4
LOWER SNIVELY SPRING	480	79-19	4.700	< 0.300		20.900	8.60	0.70	-5.9
	480	79-34	6.900	< 0.300		20.900	8.10	0.80	-0.1
	481	82-362	3.700	0.300		13.000	8.40		-1.2
	481	82-377	3.700	0.300		13.000	8.40		-1.8
	482	83-311	4.350	0.280		12.650			3.7
	482	83-396	4.270	0.280		12.480			3.2
LOZIER SPRING	483	79-44	1.900	< 0.500		4.200	4.80	< 0.50	2.2
	483	79-6	1.900	< 0.500		5.200	4.70	< 0.50	0.8
	484	81-114	3.730	0.310		7.140	10.65		0.9
	484	81-186	3.730	0.310		7.140	10.65		0.6
	485	83-316	5.030	0.270		10.000	8.48		-0.6
	485	83-343	5.030	0.270		10.140	8.68		-0.8
MAIDEN SPRING	486	79-67	3.300	0.200		7.500	5.20		
	486	79-96	3.400	0.400		8.000	2.70		
	487	83-420	3.820	0.180		9.240	6.86		2.2
	487	83-435	3.760	0.180		9.240	6.86		3.2
OBSERVATORY SPRING	488	84-310	3.140	0.130		13.090	6.23		0.3
	488	84-392	3.170	0.130		13.170	6.30		1.4
	489	84-329	3.500	0.400		11.700	3.50		
	489	84-366	3.400	0.400		12.100	4.00		
	490	81-119	3.030	0.190		10.330	9.40		1.0
	490	81-157	3.030	0.190		10.330	9.40		1.8
	491	83-433	3.280	0.160		12.520	5.59		0.6
	491	83-461	3.280	0.160		12.520	5.48		1.4
RAILROAD SPRING	492	79-76	19.600	3.700		30.000	< 0.50	< 1.00	-18.9
	492	79-81							

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MAJOR INORGANICS FOR SPRINGS

LOCATION	REC NUM	SAMPLE NUMBER	CL		F	BR	SO4		NO3		PO4	CALC BAL.
RATTLESNAKE SPRING	493	SITE-216	3.850		0.360		14.000					-7.9
	494	79-87	5.300		0.400		10.400		0.20			3.5
	494	79-88	5.300		0.500		11.000		0.20	<	0.50	1.8
	495	83-412	7.300		0.500		12.440					3.7
	495	83-466	7.300		0.490		12.520					3.5
SNIVELY SPRING	496	79-37	3.000		0.300		16.500		10.00		0.80	3.3
	496	79-49	3.500		0.300		15.600		8.10		0.80	3.8
SULPHUR SPRINGS	497	79-29	6.300		0.300		25.700		11.60		3.80	-5.8
	497	79-36	6.000		0.200		25.000		11.30		3.90	-5.5
	498	83-409	5.220		0.340		11.500		5.16			1.9
	498	83-442	5.200		0.330		11.500		5.17			1.2
UNNAMED SPRING #02	499	79-79	3.500	<	0.500		6.500		3.20	<	0.50	5.3
	499	79-93	3.400	<	0.500		6.600					
UNNAMED SPRING #16	500	79-73	4.100		0.600		6.400					-1.9
	500	79-82	3.400				5.700					
UNNAMED SPRING #26	501	79-54										
	501	79-98	7.600		0.400		8.300	<	0.50	<	1.00	-0.5
UNNAMED SPRING #29	502	79-16	7.100				11.200		1.80			
	502	79-24	6.600				10.400		2.30			
UPPER SNIVELY SPRING	503	79-69	3.800		0.200		8.000					4.2
	503	79-71	3.800		0.200		8.100		5.10	<	1.00	1.0
	504	81-126	4.830		0.300		10.000		5.61			1.1
	504	81-200	4.960		0.300		10.200		5.61			-0.6
	505	83-503	5.490		0.230		11.290		5.28			-0.9
	505	83-547	5.300		0.230		11.060		5.33			-1.1
WARM SPRING	506	84-358	8.400		0.700		16.200					0.9
	506	84-371	8.500		0.500		16.300					1.2

MAJOR INORGANICS FOR SURFACE

LOCATION	REC NUM	SAMPLE NUMBER	CL		F	BR	SO4	NO3	PO4	CALC BAL.
COL RIV @ HANFORD TB	507	SITE-221	6.600		0.460		7.000			
COL RIV @ VERNITA BR	508	84-330	1.600	<	0.500		8.800			
	508	84-361	1.600	<	0.500		8.800			
	509	84-311	1.700	<	0.500		9.000			0.7
	509	84-356	1.700	<	0.500		9.000			0.9
COL RIVER @ DC-14	510	83-211	0.820		0.120		11.500			-1.0
	510	83-258	0.960		0.120		11.300			0.1
COLD CREEK	513	84-317	7.700		0.600		13.500			
	513	84-336	7.700		0.600		13.500			
	514	84-302	7.800		0.600		13.700			1.4
	514	84-345	7.800		0.600		13.800			1.0

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MAJOR INORGANICS FOR PRECIPITATION

LOCATION	REC NUM	SAMPLE NUMBER	CL.	F	BR	SO4	NO3	PO4	CALC BAL.
STATION 03	516	82-51	< 1.000	< 1.000		< 1.000	1.67		
STATION 04	530	82-61	< 1.000	< 1.000		< 1.000	1.31		
STATION 07	546	82-92							
STATION 14	560	82-20	< 1.000	< 1.000		< 1.000	< 1.07	< 1.00	
STATION 17	576	82-70							
STATION 20	593	82-58	< 1.000	< 1.000		< 1.000	< 1.00		
	594	82-74							
STATION 25	609	82-83							
	610	82-66	< 1.000	< 1.000		< 1.000	1.67		
STATION 26	628	82-91							
	629	82-98							

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
299-E16-1	1	SITE-161		0.060		< 0.036	< 0.030	< 0.001	0.040	
	2	SITE-162						<	0.030	
	3	SITE-163							0.040	
	4	SITE-164							0.040	
299-E26-8	5	SITE-166						<	0.030	
	6	SITE-167		0.092			< 0.012	< 0.001	< 0.030	
	7	SITE-168		0.092			< 0.012	< 0.001	< 0.030	
299-E33-12	8	SITE-170						<	0.030	
	9	SITE-171		0.098		< 0.084	< 0.009	< 0.001	< 0.030	
	10	SITE-172		0.098		< 0.084	< 0.009	< 0.001	< 0.030	
699-42-40C	11	SITE-177						<	0.030	
	12	SITE-178						<	0.030	
	13	SITE-179						<	0.030	
	14	SITE-180		0.110					0.008	
	15	SITE-176							2.720	
699-47-50	17	SITE-181		0.088		< 0.018		< 0.001	0.060	
699-49-55B	18	SITE-183						<	0.030	
	19	SITE-184						<	0.030	
	20	SITE-185		0.105		< 0.014		< 0.001	< 0.030	
699-50-45	22	SITE-186		0.090		< 0.012	< 0.010	< 0.001	0.040	
699-50-48	24	SITE-187		0.044		< 0.037	< 0.030	< 0.001	< 0.030	
699-51-46	26	SITE-188		0.087		< 0.160		< 0.001	0.300	
699-52-46A	28	SITE-189		0.059		< 0.005	< 0.007	< 0.001	< 0.030	
699-52-48	30	SITE-190		0.064		< 0.008	< 0.007	< 0.001	< 0.030	
699-53-50	32	SITE-191		0.053		< 0.010		< 0.001	0.080	
699-54-57	33	SITE-192		0.129				< 0.001	< 0.030	
699-56-53	34	SITE-196		0.096		< 0.012		< 0.001	< 0.030	
	35	SITE-197		0.096		< 0.012		< 0.001	< 0.030	
DB-01	36	CP73	< 0.0500	0.013	0.206	< 0.010	< 0.005	< 0.005	0.178	
	36	CP82	< 0.0500	0.012	0.089	< 0.010	< 0.005	< 0.005	0.363	
	38	81-19	< 0.0100	0.014	0.130	< 0.010	< 0.003	< 0.002	0.050	0.048
	39	81-65	< 0.0170	0.005	0.210	< 0.004	< 0.006	< 0.003	0.360	0.015
	39	81-70	< 0.0170	0.005	0.210	< 0.004	< 0.006	< 0.003	0.370	0.015
	40	82-27	< 0.0750	0.011	0.210	< 0.015	< 0.036	< 0.006	0.120	0.015
	40	82-87	< 0.0750	0.011	0.200	< 0.015	< 0.036	< 0.006	0.130	0.014

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
DB-02	43	CP74	< 0.0200	0.021	0.030	< 0.020	< 0.005	< 0.005	0.010	
	43	CP83	< 0.0200	0.019	0.029	< 0.005	< 0.005	< 0.005	< 0.005	
	44	CP123	0.0600		0.200	< 0.010	< 0.003	0.010	0.030	
	46	81-11	0.2000	0.190	0.150	< 0.010	0.010	0.009	0.680	
	46	81-13	0.2000	0.200	0.150	< 0.010	0.005	< 0.005	0.690	< 0.005
	47	81-10	0.0700	0.220	0.140	< 0.010	0.004	< 0.005	0.130	< 0.005
	47	81-7	0.0900	0.190	0.150	< 0.010	0.005	0.005	0.130	< 0.005
DB-04	49	CP75	0.1100	0.016	< 0.005	< 0.020	< 0.005	0.010	0.172	
	49	CP84	0.1000	0.011	< 0.005	< 0.005	< 0.005	< 0.005	0.135	
	50	CP116	0.1000	2.800	0.190	< 0.010	< 0.003	0.024	1.980	
	51	CP117	0.1200	< 0.005	0.160	< 0.010	< 0.003	0.010	2.300	
DB-05	52	CP76	2.1700	0.027	< 0.005	< 0.010	< 0.005	< 0.005	4.700	
	52	CP85	1.7400	0.010	< 0.005	< 0.010	< 0.005	< 0.005	3.625	
	53	CP112	0.2300	0.025	0.170	< 0.010	< 0.003	0.025	1.000	
	54	CP113	0.1900	0.028	0.170	< 0.010	< 0.003	0.033	0.970	
DB-07	56	CP77	0.4600	0.022	0.550	< 0.020	0.009	< 0.005	0.252	
	56	CP86	0.4600	0.022	0.539	< 0.005	0.009	< 0.010	0.254	
	57	CP121	0.1700	0.010	0.660	< 0.010	< 0.003	0.020	0.500	
	59	83-413	< 0.0800	0.011	0.490	< 0.010	< 0.040	< 0.010	0.030	0.007
	59	83-448	< 0.0800	0.011	0.480	< 0.010	< 0.040	< 0.010	0.030	0.008
DB-09	60	CP54	< 0.1000	< 0.010	0.040	< 0.010	< 0.010	< 0.005	1.600	
	61	CP59	0.4000	0.010	0.275	< 0.020	< 0.005	< 0.005	0.869	
	62	CP78	0.3500	< 0.005	0.089	< 0.010	< 0.005	< 0.005	0.275	
	62	CP87	0.2980	0.022	0.115	< 0.010	< 0.005	< 0.005	0.221	
	63	CP114	0.0800	< 0.010	0.090	< 0.010	< 0.003	0.017	0.190	
	64	CP115	0.0800	0.012	0.090	< 0.010	< 0.003	0.016	0.220	
	66	83-410	< 0.0800	0.010	< 0.020	< 0.010	< 0.040	< 0.010	0.030	0.006
	66	83-472	< 0.0800	0.011	< 0.020	< 0.010	< 0.040	< 0.010	0.040	0.007
DB-10	67	CP79	0.4400	0.032	0.050	< 0.010	< 0.005	< 0.005	3.173	
	67	CP88	0.3900	0.022	0.055	< 0.010	< 0.005	< 0.005	3.133	
DB-11	74	CP80	< 0.0500	0.027	0.100	< 0.010	< 0.005	< 0.005	0.206	
	74	CP89	< 0.0500	0.026	0.095	< 0.010	< 0.005	< 0.005	0.251	
	75	81-57	0.0420	0.023	0.025	< 0.005	0.004	< 0.005	0.108	
DB-12	76	63-95	< 0.0200	0.043	0.022	0.020	< 0.005	< 0.005	< 0.005	
	77	CP65	1.2390	0.054	0.052	< 0.020	< 0.005	< 0.005	1.316	
	78	CP66	0.1110	0.065	0.034	< 0.020	< 0.005	< 0.005	0.232	
	79	CP67	0.0860	0.052	0.013	< 0.020	< 0.005	< 0.005	0.181	
	80	CP68	0.1850	0.060	< 0.005	< 0.005	< 0.005	< 0.005	0.958	
	81	81-25	0.0700	0.170	0.030	< 0.005	0.007	0.010	0.060	
	81	81-42	0.0700	0.100	0.030	< 0.005	0.010	0.010	0.060	
DB-13	82	CP69	< 0.0200	0.118	< 0.005	< 0.005	< 0.005	< 0.005	0.033	
	83	CP70	1.6900	0.097	< 0.005	< 0.005	< 0.005	< 0.005	1.835	

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL.	BA	B	CD	CR	CU	FE	LI
DB-13	84	CP71	< 0.0200	0.222 <	0.005 <	0.005 <	0.005 <	0.005	0.066	
	85	CP72	0.1100	0.146 <	0.005 <	0.005 <	0.005 <	0.005	1.367	
	86	CP91	1.6000	0.045 <	0.005 <	0.010 <	0.005	0.010	2.755	
	87	CP92	0.1400	0.540 <	0.005 <	0.020 <	0.005 <	0.005	0.119	
	88	CP96	2.9400	0.024 <	0.005 <	0.020		0.019	3.268	
	89	CP95	1.7100	0.027 <	0.005 <	0.020 <	0.005 <	0.005	0.950	
	90	CP97A	< 0.0200	0.030 <	0.005 <	0.020 <	0.005 <	0.005	0.164	
	90	CP97B	< 0.0200	0.030 <	0.005 <	0.020 <	0.005 <	0.005	0.164	
	92	B3-404	< 0.0800	0.014 <	0.020 <	0.010 <	0.040 <	0.010	0.070	0.020
	92	B3-455	< 0.0800	0.014 <	0.020 <	0.010 <	0.040 <	0.010	0.070	0.020
DB-14	93	CP93	0.1400	0.034 <	0.005 <	0.020 <	0.005	<	0.005	
	93	CP94	0.1300	0.038 <	0.005 <	0.020 <	0.005 <	0.005 <	0.005	
	94	CP98	0.7800	0.031	0.019 <	0.020 <	0.005 <	0.005	0.760	
	95	CP99	3.7000	0.055	0.022 <	0.020	0.023 <	0.005	4.132	
	96	CP100	< 0.0200	0.024	0.018 <	0.020 <	0.005 <	0.005	0.038	
	97	CP101	0.0200	0.023	0.032 <	0.020 <	0.005 <	0.005	0.093	
	98	CP102	0.2000	0.018	0.089 <	0.020 <	0.005 <	0.005	0.658	
	99	CP103	0.3200	0.023	0.040 <	0.020 <	0.005 <	0.005	0.734	
	100	CP119	0.6100	0.027	0.110 <	0.010 <	0.003	0.012	1.170	
	101	B1-139	0.0300	0.006	0.530 <	0.004 <	0.006 <	0.003	0.160	0.002
	101	B1-162	0.0040	0.004	0.530 <	0.004 <	0.006 <	0.003	0.170	0.003
DB-15	102	79-17	< 0.0100	0.114 <	0.005 <	0.010 <	0.003 <	0.002	0.020 <	0.020
	102	79-4	0.0400	0.120 <	0.010 <	0.010 <	0.010 <	0.010	0.020	
	103	79-20	< 0.0200	0.020 <	0.005 <	0.010 <	0.010 <	0.002	0.050 <	0.020
	103	79-35	< 0.0100	0.020 <	0.005 <	0.010 <	0.003 <	0.002	0.050	
	104	79-27	< 0.0200 <	0.005 <	0.010 <	0.010 <	0.010 <	0.010	0.150 <	0.020
	104	79-33	< 0.0200 <	0.005 <	0.010 <	0.010 <	0.010 <	0.010	0.140	
	105	79-15	0.3300	0.260	0.110	0.050	0.080	0.050	0.180 <	0.020
	105	79-46	0.3300	0.265	0.110	0.050	0.080	0.060	0.200 <	0.020
	106	79-39	0.3400	0.268	0.090	0.050	0.060	0.049	0.234 <	0.020
	106	79-8	0.3700	0.260	0.090	0.050	0.070	0.053	0.240 <	0.020
	107	79-31	0.3200	0.240	0.030 <	0.010 <	0.003 <	0.002	0.250 <	0.020
	107	79-5	0.3400	0.019	0.040 <	0.010 <	0.003 <	0.002	0.270 <	0.020
	109	79-51	0.1000	0.032	1.250 <	0.010 <	0.003 <	0.002	0.110 <	0.020
	109	79-61	0.0800	0.025	1.280 <	0.010 <	0.003	0.020	0.100 <	0.020
	110	79-74	1.3800	0.097	1.270 <	0.010 <	0.003 <	0.002	3.280 <	0.020
	110	79-85	1.4700	0.046	1.300 <	0.010 <	0.003 <	0.002	3.320 <	0.020
	111	79-80	0.6000	0.130	1.300 <	0.010 <	0.003 <	0.002	0.700 <	0.020
	111	79-99	0.6000 <	0.005	1.270 <	0.010	0.020 <	0.002	2.400	
	112	79-62	0.1400	0.034	0.900 <	0.010	0.020	0.020	0.320 <	0.020
	112	79-84	0.0700	0.150	0.960 <	0.010	0.020	0.030	0.190 <	0.020
	113	79-90	1.4000	0.067	1.050 <	0.010	0.030 <	0.002	0.700 <	0.002
	113	79-95	0.4000	0.026	0.950 <	0.010	0.030	0.020	0.830 <	0.020
	114	80-35	10.6000	0.200	0.910 <	0.010	0.020 <	0.002	6.300 <	0.020
	114	80-41	9.1000	0.160	0.870 <	0.010	0.020	0.010	5.600 <	0.020
	115	80-24	< 0.0100 <	0.005	0.950 <	0.010 <	0.003 <	0.002	0.090 <	0.020
	115	80-74	< 0.0100 <	0.005	0.910 <	0.010 <	0.003 <	0.002	0.100 <	0.020
	116	80-42	0.0200 <	0.005	0.820 <	0.010 <	0.003 <	0.002	0.080 <	0.020

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
DB-15	116	80-77	< 0.0100	< 0.005	0.810	< 0.010	< 0.003	< 0.002	0.080	< 0.020
	117	80-1	0.0300	0.016	1.300	< 0.010	< 0.003	< 0.002	0.270	< 0.020
	117	80-51	< 0.0100	< 0.005	1.300	< 0.010	< 0.030	< 0.002	0.110	< 0.020
DC-01	118	SITE-230	0.1000		0.060				0.250	
	119	SITE-226	0.7000		0.060				0.050	
	120	SITE-227	0.5000		0.560				0.050	
	121	SITE-228			0.740					
	122	SITE-229	0.8000		0.580				0.000	
	123	SITE-231	0.1000		0.050				0.050	
	124	SITE-232	0.1000		0.060				0.100	
	125	SITE-233	0.1000		0.100				1.400	
	126	SITE-234	0.4000		0.450				0.570	
	127	SITE-235			0.940				0.030	
	128	SITE-236	1.1000		0.730				0.000	
	129	SITE-237	1.1000						0.200	
	130	SITE-238	0.1000						1.000	
	131	SITE-239	1.1000		0.720				0.100	
	132	SITE-240	1.1000		0.650				0.150	
	133	SITE-241	1.1000		0.170				0.650	
	134	SITE-242	0.9000		0.660				1.800	
	135	SITE-243	1.3000		0.380				2.100	
DC-02A	136	80-25	77.1000	0.330	1.400	< 0.010	0.090	0.060	48.600	< 0.020
	136	80-4	13.8000	0.430	1.100	0.010	0.080	0.110	32.300	< 0.020
	137	SITE-213		0.160				0.240		
DC-03	138	80-27	1.6800	5.470	0.150	< 0.010	0.003	0.180	0.180	0.340
	138	80-81	1.1800	1.320	0.070	< 0.010	< 0.003	0.060	0.030	0.240
DC-05	139	79-30	0.3000	0.020	0.500	< 0.010	< 0.003	0.016	0.400	0.100
	139	79-32	0.2100	0.020	0.500	< 0.010	< 0.003	< 0.002	0.250	0.100
DC-06	140	80-147	< 0.0100	< 0.005	1.200	< 0.010	< 0.003	< 0.002	0.350	
	140	80-161	0.0900	< 0.005	1.240	< 0.010	< 0.003	< 0.002	0.400	
	141	80-22	0.4900	0.280	1.300	0.010	0.090	0.050	46.900	< 0.020
	141	80-72	57.1000	0.130	1.600	0.020	0.090	0.040	51.500	< 0.020
	142	SITE-214	< 0.0500							
	143	80-201	< 0.0100	< 0.005	1.260	< 0.010	0.020	< 0.002	< 0.010	
	143	80-238	< 0.0100	< 0.005	1.350	< 0.010	0.030	< 0.002	0.020	
	144	80-186	0.0600	< 0.005	0.860	< 0.010	< 0.003	< 0.002	0.060	
	144	80-191	< 0.0100	< 0.005	0.770	< 0.010	< 0.003	< 0.002	0.040	
	145	80-13	0.0400	< 0.005	1.000	< 0.010	< 0.003	< 0.002	4.100	< 0.020
	145	80-58	0.1000	< 0.005	0.980	< 0.010	0.030	< 0.002	4.100	< 0.020
	146	79-59	0.1700	< 0.005	1.040	< 0.010	< 0.003	< 0.002	0.760	< 0.020
	146	79-97	0.1600	< 0.005	1.000	0.010	0.010	< 0.002	0.700	< 0.020
	147	81-45	0.0900	< 0.005	0.099	< 0.005	< 0.005	< 0.005	0.040	
	147	81-8	0.0900	< 0.005	0.990	< 0.005	< 0.005	< 0.005	0.040	
	148	80-118	0.0700	< 0.005	1.210	< 0.010	< 0.003	0.009	0.200	< 0.020
	148	80-133	0.1400	0.010	1.130	0.010	0.020	0.025	0.140	< 0.020

SD-SWI-DP-001 REV.0

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
DC-06	149	80-15	0.0900 <	0.005	1.240 <	0.010	0.012	0.005	0.030 <	0.020
	149	80-70	0.1000 <	0.005	1.270 <	0.010	0.010	0.006	0.030 <	0.020
	150	81-76	< 0.0800	0.010	1.310 <	0.010 <	0.036 <	0.002 <	0.006	0.013
	150	81-82	< 0.0800	0.004	1.310 <	0.010 <	0.036 <	0.002	0.100	0.012
	151	80-29	0.1100 <	0.005	1.520 <	0.010 <	0.003	0.002	0.004 <	0.020
	151	80-37	< 0.0100 <	0.005	1.450 <	0.010 <	0.003 <	0.002 <	0.002 <	0.020
	152	79-57	0.1500	0.060	1.410 <	0.010 <	0.003 <	0.002	0.020 <	0.020
	152	79-58	0.1100	0.080	1.450 <	0.010 <	0.003 <	0.002	0.009 <	0.020
	153	80-45	0.0500 <	0.005	1.200 <	0.010 <	0.003 <	0.002	0.010 <	0.020
	153	80-75	0.0500 <	0.005	1.170 <	0.010 <	0.003 <	0.002 <	0.002 <	0.020
DC-07	154	82-23	0.4100	0.016	1.800 <	0.020 <	0.030 <	0.006	0.140 <	0.006
	154	82-56	0.4700	0.017	1.820 <	0.020 <	0.030 <	0.006	0.130 <	0.006
	155	82-10	0.3600	0.015	1.870 <	0.010 <	0.030 <	0.006	0.170 <	0.006
	155	82-33	0.3800	0.015	1.870 <	0.010 <	0.030 <	0.006	0.190 <	0.006
	156	80-39	0.3300	0.030	0.540 <	0.010 <	0.003 <	0.002	1.300 <	0.020
	156	80-98	0.3000	0.030	0.570 <	0.010 <	0.003 <	0.002	1.340 <	0.020
	157	80-11	0.2300 <	0.005	0.800 <	0.010 <	0.003 <	0.002	2.100 <	0.020
	157	80-19	0.2000 <	0.005	0.800 <	0.010 <	0.003 <	0.002	2.100 <	0.020
	158	79-52	0.8400	0.260	1.800 <	0.010 <	0.003 <	0.002	1.600 <	0.020
	158	79-55	0.8300 <	0.010	1.900 <	0.010 <	0.003 <	0.002	1.500 <	0.050
	159	80-103	1.7600	4.470	1.610	0.015	0.050	1.020	30.100 <	0.020
	159	80-163	1.4900	0.650	1.580 <	0.010	0.050	0.019	29.100 <	0.020
	160	80-178	0.1900	0.510	2.220 <	0.010	0.006 <	0.002	1.360	
	160	80-188	0.1500 <	0.005	2.210 <	0.010	0.009 <	0.002	1.410	
	161	80-177	43.9000	0.140	2.550 <	0.010	0.230	0.260	106.000	
	161	80-196	36.0000	0.140	2.620 <	0.010	0.160	0.200	79.500	
DC-12	162	80-62	0.0500 <	0.005	0.940 <	0.010 <	0.003 <	0.002	0.070 <	0.020
	162	80-80	0.0400	0.014	0.930 <	0.010 <	0.003 <	0.002	0.080 <	0.020
	163	80-100	< 0.0100 <	0.005	0.860 <	0.010 <	0.003 <	0.002 <	0.002 <	0.020
	163	80-63	< 0.0100 <	0.005	0.940 <	0.010 <	0.003 <	0.002	0.010 <	0.020
	164	80-73	< 0.0100 <	0.005	0.760 <	0.010 <	0.003 <	0.002	0.014 <	0.020
	164	80-97	< 0.0100 <	0.005	0.760 <	0.010 <	0.003 <	0.002	0.014 <	0.020
	165	80-32	< 0.0100 <	0.005	1.280 <	0.010 <	0.003 <	0.002	0.210	
	165	80-68	< 0.0100	1.090	1.330 <	0.010 <	0.003 <	0.002	0.200	
	166	80-23	< 0.0100 <	0.005	0.810 <	0.010 <	0.003 <	0.002	0.040 <	0.020
	166	80-82	< 0.0100 <	0.005	0.800 <	0.010	0.005 <	0.002	0.180 <	0.020
	167	80-102	0.0800	0.007	0.860 <	0.010 <	0.003	0.009	0.080 <	0.020
	167	80-124	0.0800 <	0.005	0.840 <	0.010	0.006	0.010	0.060 <	0.020
	168	80-101	3.4600 <	0.005	0.780 <	0.010	0.010 <	0.002	18.400 <	0.020
	168	80-169	3.1400 <	0.005	0.750 <	0.010 <	0.003 <	0.002	9.500 <	0.020
	169	80-143								
	169	80-174	< 0.0100	0.196	0.800 <	0.010 <	0.003 <	0.002	0.180 <	0.020
	170	80-209	< 0.0100 <	0.005	0.730 <	0.010 <	0.003 <	0.002	0.120	
	170	80-242	< 0.0100 <	0.005	0.720 <	0.010 <	0.003 <	0.002	0.120	
	171	80-233	0.0400	0.008	0.780 <	0.010	0.020 <	0.002	2.000	
	171	80-243	0.0500 <	0.005	0.860 <	0.010	0.020	0.008	2.150	
	172	80-208	0.0500 <	0.005	0.790 <	0.005 <	0.005 <	0.005	0.050	
	172	80-234	0.0600 <	0.005	0.780 <	0.005 <	0.005 <	0.005	0.040	

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CO	CR	CU	FE	LI
DC-12	173	81-61	0.0130 <	0.005	0.700 <	0.010	0.007 <	0.002	0.060 <	0.100
	173	81-72	0.3000 <	0.005	0.750 <	0.010	0.004 <	0.002	0.060 <	0.100
	174	82-47	0.1900	0.003	0.860 <	0.015 <	0.036 <	0.006	0.260	0.024
	174	82-85	0.2200	0.003	0.860 <	0.015 <	0.036 <	0.006	0.300	0.024
DC-14	175	80-3	0.0500	0.054	0.120 <	0.010 <	0.003 <	0.002	0.160 <	0.020
	175	80-34	0.0600	0.053	0.130 <	0.010 <	0.003 <	0.002	0.170	0.020
	176	80-16	0.0300	0.064 <	0.005 <	0.010 <	0.003 <	0.002	0.650 <	0.020
	176	80-53	0.0300	0.061 <	0.005 <	0.010 <	0.003 <	0.002	0.610 <	0.020
	177	80-47	0.0600	0.058 <	0.005 <	0.010 <	0.003	0.005	0.290 <	0.020
	177	80-85	0.0300	0.059 <	0.005 <	0.010 <	0.003 <	0.002	0.310 <	0.020
	178	80-69	< 0.0100 <	0.005	0.070 <	0.010	0.011 <	0.002	0.040 <	0.020
	178	80-83	< 0.0100 <	0.005	0.070 <	0.010 <	0.003 <	0.002	0.042 <	0.020
	179	80-55	< 0.0100 <	0.005	0.068 <	0.010	0.010 <	0.002	0.030 <	0.020
	179	80-99	0.0200 <	0.005	0.067 <	0.010	0.010 <	0.002 <	0.002 <	0.020
	180	80-36	< 0.0100	0.235	0.070 <	0.010	0.010 <	0.002	0.010 <	0.020
	180	80-89	< 0.0100 <	0.005	0.070 <	0.010	0.010 <	0.002	0.010 <	0.020
	181	80-2	0.0200	0.028	0.040 <	0.010 <	0.003 <	0.002	0.030 <	0.020
	181	80-71	0.0360	0.031	0.042 <	0.010	0.008 <	0.002	0.050 <	0.020
	182	80-136	0.0400	0.016	0.030 <	0.010 <	0.003 <	0.002	0.050 <	0.020
	182	80-144	0.0400	0.012	0.030 <	0.010 <	0.003 <	0.002	0.070	0.030
	183	80-127	0.0300	0.013	0.020 <	0.010 <	0.003 <	0.002	0.040	0.042
	183	80-189	0.0200	0.006	0.030 <	0.010 <	0.003 <	0.002	0.019 <	0.020
	184	80-112	0.0300	0.011	0.030 <	0.010	0.006	0.007	0.024	0.020
	184	80-168	< 0.0100 <	0.005 <	0.010 <	0.010 <	0.003 <	0.002 <	0.005	0.030
	185	80-157	< 0.0100 <	0.005	0.036 <	0.010 <	0.003 <	0.002	0.060 <	0.020
	185	80-183	< 0.0100 <	0.005	0.036 <	0.010 <	0.003 <	0.002	0.190 <	0.020
	186	80-155	< 0.0100 <	0.005	0.053 <	0.010	0.010 <	0.002 <	0.010 <	0.020
	186	80-185	< 0.0100 <	0.005	0.032 <	0.010 <	0.003 <	0.002 <	0.005 <	0.020
	187	80-104	< 0.0100 <	0.005	0.030 <	0.010 <	0.003 <	0.002	0.015 <	0.020
	187	80-125	< 0.0100 <	0.005	0.034 <	0.010 <	0.003 <	0.002	0.040 <	0.020
	188	80-115	0.1000 <	0.005	0.060 <	0.010 <	0.003 <	0.002	0.030	
	188	80-129	0.1200 <	0.005	0.070 <	0.010	0.010 <	0.002	0.010	
	189	80-156	< 0.0100 <	0.005	0.030 <	0.010 <	0.003 <	0.002 <	0.010	
	189	80-170	0.0700 <	0.005	0.060 <	0.010	0.010	0.007	0.010	
	190	80-117	< 0.0100 <	0.005 <	0.010 <	0.010 <	0.003 <	0.002	0.074	
	190	80-151	< 0.0100 <	0.005 <	0.010 <	0.010	0.007 <	0.002	0.080	
	191	80-213	0.2100	0.023	0.580	0.020	0.030	0.030	0.100	
	191	80-236	0.1100 <	0.005	0.590 <	0.010	0.010 <	0.002	0.080	
	192	81-20	0.1000	0.015	0.510 <	0.005 <	0.005	0.007	0.120	
	192	81-22	0.0800	0.015	0.520 <	0.005 <	0.005 <	0.005	0.100	
	193	81-16	0.1100	0.020	0.990 <	0.010 <	0.010 <	0.005	0.030	0.185
	193	81-30	0.1100	0.020	0.980 <	0.010	0.010 <	0.005	0.020	0.060
	194	81-44	0.1300	0.010	1.350 <	0.010	0.009	0.009	0.120	0.041
	194	81-47								
	195	81-141	< 0.0600	0.003	1.390 <	0.030 <	0.040 <	0.005	0.030	0.013
	196	81-21	0.1300 <	0.005	0.340 <	0.010 <	0.003	0.002	0.020	0.095
	196	81-29	0.1200 <	0.005	0.033 <	0.010 <	0.003 <	0.002	0.020	0.089
	197	81-91	0.3400	0.044	1.120 <	0.004 <	0.006 <	0.003	0.210	0.027
	197	81-99	0.4200	0.018	1.100 <	0.004 <	0.006 <	0.003	0.260	0.027

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
DC-14	198	81-163	0.2700	0.004	1.280 <	0.004 <	0.006 <	0.003	0.180	0.029
	198	81-90	0.2100	0.005	1.290 <	0.004 <	0.006 <	0.003	0.180	0.029
	199	81-138	< 0.0200	0.004	1.340 <	0.004 <	0.006 <	0.003	0.020	0.030
	199	81-188	< 0.0170	0.004	1.320 <	0.004 <	0.006 <	0.003	0.050	0.030
	200	82-42	0.1400	0.004	1.410 <	0.010 <	0.040 <	0.006 <	0.006	0.032
	200	82-8	0.1400	0.005	1.420 <	0.010 <	0.040 <	0.006	0.006	0.031
	202	83-156	0.0095	0.005	1.430 <	0.010 <	0.040 <	0.010 <	0.010	0.033
	202	83-197	< 0.0800	0.005	1.420 <	0.010 <	0.040 <	0.010 <	0.010	0.032
	203	83-152	0.0095	0.005	1.420 <	0.010 <	0.040 <	0.010 <	0.010	0.036
	203	83-193	< 0.0800	0.005	1.430 <	0.010 <	0.040 <	0.010	0.010	0.036
	204	83-157	0.0085	0.005	1.450 <	0.010 <	0.040 <	0.010 <	0.010	0.035
	204	83-179	< 0.0800	0.005	1.430 <	0.010 <	0.040 <	0.010	0.010	0.036
	205	83-103	< 0.0800	0.003	1.410 <	0.010 <	0.040 <	0.010 <	0.010	0.032
	205	83-178	0.0070	0.004	1.400 <	0.010 <	0.040 <	0.010 <	0.010	0.033
	206	83-123	< 0.0800	0.004	1.100 <	0.010 <	0.040 <	0.010 <	0.010	0.034
	206	83-183	< 0.0800	0.004	1.100 <	0.010 <	0.040 <	0.010 <	0.010	0.035
	207	83-154	0.0235	0.014	1.730 <	0.010 <	0.040 <	0.010	0.010	0.032
	207	83-191	< 0.0800	0.008	1.740 <	0.010 <	0.040 <	0.010 <	0.010	0.032
	208	83-108	< 0.0800	0.004	1.740 <	0.010 <	0.040 <	0.010 <	0.010	0.031
	208	83-150	0.0135	0.004	1.730 <	0.010 <	0.040 <	0.010 <	0.010	0.032
	209	83-233	0.0800	0.004	1.430 <	0.010 <	0.040 <	0.010 <	0.010	0.034
	209	83-266	0.0800	0.004	1.390 <	0.010 <	0.040 <	0.010 <	0.010	0.033
	210	83-203	0.0800	0.005	1.110 <	0.010 <	0.040 <	0.010	0.010	0.034
	210	83-261	0.0800	0.005	1.120 <	0.010 <	0.040 <	0.010 <	0.010	0.035
DC-15	211	80-31	< 0.0100	0.061	0.050 <	0.010 <	0.003 <	0.002	0.110 <	0.020
	211	80-56	< 0.0100	0.063	0.050 <	0.010 <	0.003 <	0.002	0.120 <	0.020
	212	80-54	< 0.0200	0.068	0.020 <	0.010 <	0.003 <	0.002	0.050 <	0.020
	212	80-76	< 0.0200	0.074	0.020 <	0.010 <	0.003 <	0.002	0.060 <	0.020
	213	80-57	< 0.0100	0.058	0.045 <	0.010	0.007 <	0.002	0.320 <	0.020
	213	80-65	< 0.0100	0.065	0.038 <	0.010 <	0.003 <	0.002	0.320 <	0.020
	214	80-87	< 0.0100	0.033	0.085 <	0.010	0.005 <	0.002	0.500	0.030
	214	80-94	< 0.0100	0.017	0.086 <	0.010 <	0.003 <	0.002	0.490	0.050
	215	80-137	0.0400 <	0.005	0.260 <	0.012 <	0.003 <	0.002	0.020 <	0.020
	215	80-197	0.0300 <	0.005	0.260 <	0.010 <	0.003 <	0.002	0.020 <	0.020
	216	80-176	< 0.0100 <	0.005	0.210 <	0.010 <	0.003 <	0.002	0.010 <	0.020
	216	80-999	0.0340	0.009	0.220 <	0.010 <	0.003	0.008	0.030 <	0.020
	217	80-135	0.0700	0.008	0.220 <	0.010 <	0.003	0.010	0.010	0.017
	217	80-149	0.0530 <	0.005	0.230 <	0.010 <	0.003 <	0.002	0.110 <	0.020
	218	80-120	< 0.0100	0.012	0.220 <	0.010 <	0.003 <	0.002	0.060 <	0.020
	218	80-139	< 0.0100 <	0.005	0.210 <	0.010 <	0.003 <	0.002	0.060 <	0.020
	219	80-108	0.1000 <	0.005	0.290 <	0.010 <	0.003 <	0.002	0.060	
	219	80-131	0.0700 <	0.005	0.290 <	0.010 <	0.003 <	0.002	0.050	
	220	80-114	< 0.0100 <	0.005	0.190 <	0.010 <	0.003 <	0.002	0.040	
	220	80-193	< 0.0100 <	0.005	0.210 <	0.010 <	0.003 <	0.002	0.040	
	221	81-24	0.0700	0.010	0.350 <	0.005 <	0.005	0.008	0.150	
	221	81-41	0.1100	0.013	0.360	0.007	0.010	0.010	0.160	
	222	81-2	0.7000	0.032	0.510 <	0.005	0.030	0.010	15.000	
	222	81-36	0.7000	0.033	0.520 <	0.015	0.030	0.020	15.400	
	223	81-46	0.1500	0.020	0.650 <	0.010	0.008 <	0.005	0.200	0.500

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
DC-15	223	81-50	0.1500	0.020	0.650 <	0.010	0.010 <	0.005	0.200	0.890
	224	81-32	0.1000	0.030	0.810 <	0.010	0.008 <	0.005	0.080	0.460
	224	81-33	0.1100	0.020	0.770 <	0.010	0.010 <	0.005	0.080	0.039
	225	81-27	< 0.0800	0.004	0.880 <	0.010 <	0.003 <	0.002	0.040	0.007
	225	81-74	< 0.0200	0.004	0.910 <	0.004 <	0.006 <	0.003	0.034	0.006
	226	81-64	0.1400	0.015	0.810 <	0.010 <	0.036 <	0.002	0.500	0.104
	226	81-80	0.0800	0.010	0.790 <	0.010	0.010 <	0.002	0.390	0.092
	227	81-85	0.1000 <	0.005	0.740 <	0.010 <	0.003 <	0.002	0.160	0.120
	227	81-96	0.1900 <	0.005	0.760 <	0.010	0.010 <	0.002	1.010	0.110
	228	81-69	0.0600	0.007	0.780 <	0.010 <	0.003 <	0.002	0.060	0.103
	228	81-84	0.0400 <	0.005	0.740 <	0.010	0.010 <	0.002	0.050	0.110
	229	82-41	0.3600	0.009	2.340 <	0.015 <	0.036 <	0.006	0.140	0.019
	229	82-94	0.3600	0.013	2.320 <	0.015 <	0.036 <	0.006	0.160	0.020
DC-16A	230	81-109	< 0.0800	0.030 <	0.020 <	0.020	0.230 <	0.006	0.080	0.007
	230	81-167	< 0.0800	0.030 <	0.020 <	0.020	0.220 <	0.006	0.090 <	0.006
	231	82-17	< 0.0800	0.003	0.020 <	0.020 <	0.040 <	0.006	0.070	0.020
	231	82-55	< 0.0800	0.007 <	0.020 <	0.020 <	0.040 <	0.006	0.060	0.017
	232	82-45	< 0.0800	0.024	0.050 <	0.010 <	0.040 <	0.006	0.090	0.028
	232	82-93	< 0.0800	0.024	0.050 <	0.010 <	0.040 <	0.006	0.090	0.029
	233	82-19	< 0.0800	0.008	0.500 <	0.010	0.080 <	0.006	0.100 <	0.006
	233	82-88	< 0.0800	0.007	0.510 <	0.010	0.080 <	0.006	0.110 <	0.006
	234	82-140	< 0.0800	0.006	0.600 <	0.010 <	0.030 <	0.006	0.070 <	0.006
	234	82-188	< 0.0800	0.005	0.600 <	0.010 <	0.030 <	0.006	0.070 <	0.006
	235	82-124	< 0.0800	0.007	0.630 <	0.010	0.050 <	0.006	0.050	0.007
	235	82-172	< 0.0800	0.007	0.620 <	0.010	0.050 <	0.006	0.050	0.010
	236	82-126	< 0.0800	0.026	0.610 <	0.010	0.060 <	0.006	0.070	0.019
	236	82-143	< 0.0800	0.028	0.620 <	0.010	0.060 <	0.006	0.060	0.020
	237	82-202	< 0.0700	0.017	0.540 <	0.010	0.100 <	0.006	1.810	0.011
	237	82-228	< 0.0700	0.017	0.550 <	0.010	0.090 <	0.006	2.260	0.011
	239	82-322	< 0.0800	0.014	1.430 <	0.010 <	0.030 <	0.006	0.030	0.110
	239	82-361	< 0.0800	0.014	1.410 <	0.010 <	0.030 <	0.006	0.020	0.110
	240	82-332	< 0.0800	0.020	1.500 <	0.010 <	0.030 <	0.006	9.300	0.025
	240	82-358	< 0.0800	0.019	1.500 <	0.010 <	0.030 <	0.006	8.500	0.024
	242	82-430	0.2900	0.013	2.600 <	0.010	0.160 <	0.006	0.100 <	0.006
	242	82-473	0.2800	0.013	2.600 <	0.010	0.160 <	0.006	0.100 <	0.006
	243	83-29	< 0.0800	0.013	2.570 <	0.010	0.060 <	0.010	0.080	0.014
	243	83-41	< 0.0800	0.014	2.600 <	0.010	0.060 <	0.010	0.100	0.017
DC-16B	244	83-147	< 0.0800	0.024	0.080 <	0.010 <	0.040 <	0.010	0.430	0.026
	244	83-185	< 0.0800	0.024	0.070 <	0.010 <	0.040 <	0.010	0.430	0.027
DC-16C	245	83-100	0.2500	0.050	3.900 <	0.010 <	0.040 <	0.010	3.600	0.010
	245	83-30	0.2500	0.047	3.900 <	0.010 <	0.040 <	0.010	3.400	0.010
	246	83-215	< 0.0800	0.010	0.810 <	0.010 <	0.040 <	0.010	1.070	0.007
	246	83-259	< 0.0800	0.020	0.800 <	0.010 <	0.040 <	0.010	1.060	0.007
DC-19C	247	84-53	< 0.0700	0.004	0.800 <	0.010 <	0.030 <	0.006	0.170	0.008
	247	84-84	< 0.0700	0.004	0.810 <	0.010 <	0.030 <	0.006	0.180	0.008
	248	84-40	< 0.0700	0.004	0.780 <	0.010 <	0.030 <	0.006	0.320	0.007

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
DC-19C	248	84-77	< 0.0700	0.004	0.780	< 0.010	< 0.030	< 0.006	0.320	0.008
	249	84-29	0.0900	0.002	0.660	< 0.010	< 0.040	< 0.010	1.310	0.013
	249	84-75	0.0800	0.002	0.660	< 0.010	< 0.040	< 0.010	1.380	0.012
	250	84-18	0.2100	0.004	0.650	< 0.010	< 0.040	< 0.010	1.060	0.010
	250	84-86	0.1800	0.003	0.640	< 0.010	< 0.040	< 0.010	0.950	0.008
DC-20C	251	84-49	< 0.0700	0.004	0.570	< 0.010	< 0.030	< 0.000	0.580	0.008
	251	84-9	< 0.0700	0.004	0.580	< 0.010	< 0.030	< 0.000	0.570	0.008
DC-22C	252	84-105	< 0.0700	0.005	0.360	< 0.010	< 0.030	< 0.006	0.060	0.009
	252	84-153	< 0.0700	0.004	0.360	< 0.010	< 0.030	< 0.006	0.030	0.008
ENYEART	253	SITE-209							0.030	
	254	SITE-210	0.1000		0.040		< 0.030		0.100	
	255	84-166	< 0.0700	0.017	0.033	< 0.015	< 0.036	< 0.006	0.074	0.016
	255	84-184	< 0.0700	0.017	0.034	< 0.015	< 0.036	< 0.006	0.074	0.015
FORD	257	SITE-206							0.020	
	258	SITE-207	0.0900		0.090		< 0.030	< 0.050	0.090	< 0.020
MCGEE	265	82-52	< 0.0800	0.021	< 0.020	< 0.010	< 0.030	< 0.006	0.060	0.013
	265	82-7	< 0.0800	0.021	< 0.020	< 0.010	< 0.030	< 0.006	0.060	0.014
	266	80-64	0.0360	0.018	0.025	< 0.010	0.008	< 0.002	0.098	< 0.020
	266	80-88	0.0200	0.020	0.023	< 0.010	0.008	< 0.002	0.096	< 0.020
	267	81-73	0.0400	0.033	< 0.005	< 0.010	< 0.036	< 0.002	0.150	0.091
	267	81-79	0.0500	0.025	< 0.005	< 0.010	< 0.036	< 0.002	0.150	0.082
	268	81-54	0.0500	0.060	< 0.005	< 0.010	< 0.036	< 0.002	0.260	0.074
	268	81-56	0.0600	0.052	< 0.005	< 0.010	< 0.036	< 0.002	0.260	0.105
	269	82-11	< 0.0800	0.022	< 0.020	< 0.010	< 0.030	< 0.006	0.050	0.013
	269	82-64	< 0.0800	0.021	< 0.020	< 0.010	< 0.030	< 0.006	0.050	0.010
	270	82-105	< 0.0800	0.028	< 0.020	< 0.010	< 0.030	< 0.006	0.060	0.013
	270	82-164	< 0.0800	0.024	< 0.020	< 0.010	< 0.030	< 0.006	0.050	0.013
	270	82-183	< 0.0800	0.024	< 0.020	< 0.010	< 0.030	< 0.006	0.050	0.014
	271	82-263	< 0.0800	0.008	< 0.020	< 0.010	< 0.030	< 0.006	0.160	0.011
	271	82-283	< 0.0800	0.008	< 0.020	< 0.010	< 0.030	< 0.006	0.170	0.010
	272	82-325	< 0.0800	0.011	0.020	< 0.010	< 0.030	< 0.006	0.100	0.016
	272	82-397	< 0.0800	0.011	0.020	< 0.010	< 0.030	< 0.006	0.100	0.017
	273	82-424	0.2500	0.006	< 0.020	< 0.010	< 0.030	< 0.006	0.160	0.009
	273	82-474	0.2600	0.006	< 0.020	< 0.010	< 0.030	< 0.006	0.160	0.011
	274	82-436	0.2500	0.005	< 0.020	< 0.010	< 0.030	< 0.006	0.060	0.011
	274	82-498	0.2400	0.005	< 0.020	< 0.010	< 0.030	< 0.006	0.060	0.010
	275	83-32	< 0.0800	0.011	< 0.020	< 0.010	< 0.040	< 0.010	0.490	0.013
	275	83-63	< 0.0800	0.011	< 0.020	< 0.010	< 0.040	< 0.010	0.500	0.012
	276	83-27	< 0.0800	0.007	< 0.020	< 0.010	< 0.040	< 0.010	0.110	0.013
	276	83-83	< 0.0800	0.007	< 0.020	< 0.010	< 0.040	< 0.010	0.120	0.014
	277	83-113	< 0.0800	0.008	< 0.020	< 0.010	< 0.040	< 0.010	0.110	0.016
	277	83-188	< 0.0800	0.006	< 0.020	< 0.010	< 0.040	< 0.010	0.110	0.016
	278	83-323	< 0.0800	0.008	0.040	< 0.010	< 0.040	< 0.010	0.060	0.014
	278	83-373	< 0.0800	0.008	0.030	< 0.010	< 0.040	< 0.010	0.060	0.014
	279	83-331	< 0.0800	< 0.001	0.060	< 0.010	< 0.040	< 0.010	0.080	0.017

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
MCGEE	279	83-344	< 0.0800	< 0.001	0.050	< 0.010	< 0.040	< 0.010	0.090	0.013
	280	83-460	< 0.0800	0.004	0.060	< 0.010	< 0.040	< 0.010	0.060	0.015
	280	83-474	< 0.0800	< 0.001	0.060	< 0.010	< 0.040	< 0.010	0.050	0.013
	281	83-417	< 0.0800	0.002	0.040	< 0.010	< 0.040	< 0.010	0.070	0.016
	281	83-476	< 0.0800	0.003	0.040	< 0.010	< 0.040	< 0.010	0.060	0.015
	282	83-513	< 0.0800	< 0.001	0.110	< 0.010	< 0.040	< 0.010	0.130	0.011
	282	83-545	< 0.0800	< 0.001	0.110	< 0.010	< 0.040	< 0.010	0.140	0.012
	283	84-24	0.0800	< 0.001	0.120	< 0.010	< 0.040	< 0.010	0.190	0.017
	283	84-38	0.1100	< 0.001	0.130	< 0.010	< 0.040	< 0.010	0.170	0.020
RRL-02	284	82-28	< 0.0800	0.047	0.380	< 0.010	0.040	< 0.006	6.300	0.012
	284	82-68	< 0.0800	0.019	0.380	< 0.010	0.040	< 0.006	6.600	0.011
	285	82-65	< 0.0800	0.005	0.360	< 0.010	< 0.030	< 0.006	0.390	0.007
	285	82-75	< 0.0800	0.002	0.350	< 0.010	< 0.030	< 0.006	0.320	< 0.006
	286	82-163	< 0.0800	0.025	1.110	< 0.010	< 0.030	< 0.006	0.100	0.018
	286	82-170	< 0.0800	0.024	1.090	< 0.010	< 0.030	< 0.006	0.110	0.017
	287	82-122	< 0.0800	0.004	2.610	< 0.010	< 0.030	< 0.006	0.820	0.020
	287	82-192	< 0.0800	0.003	2.660	< 0.010	< 0.030	< 0.006	0.810	0.020
	288	82-401	0.4100	0.002	3.500	< 0.010	< 0.030	< 0.006	0.130	0.026
	288	82-479	0.4100	0.002	3.510	< 0.010	< 0.030	< 0.006	0.130	0.026
	289	84-43	< 0.0800	< 0.001	2.900	< 0.015	< 0.036	< 0.006	0.080	0.023
	289	84-7	< 0.0800	< 0.001	2.910	< 0.010	< 0.040	< 0.006	0.080	0.023
	290	82-364	< 0.0700	0.004	3.440	< 0.010	< 0.030	< 0.006	0.050	0.042
	290	82-381	0.0800	0.005	3.520	< 0.010	< 0.030	< 0.006	0.090	0.044
	291	82-309	0.1100	0.003	3.140	< 0.010	< 0.030	< 0.006	0.140	0.026
	291	82-391	0.1000	0.007	3.090	< 0.010	< 0.030	< 0.006	0.120	0.027
	292	82-413	0.3500	0.002	3.480	< 0.010	< 0.030	< 0.006	0.060	0.042
	292	82-456	0.3300	0.005	3.510	< 0.010	< 0.030	< 0.006	0.050	0.041
RRL-14	294	82-403	0.3200	0.004	2.250	< 0.010	< 0.030	< 0.006	0.120	0.021
	294	82-489	0.4100	0.005	2.240	< 0.010	< 0.030	< 0.006	0.200	0.022
B11-E12A	298	80-61	0.0500	0.049	0.043	< 0.010	0.009	< 0.002	0.074	< 0.020
	298	80-7	0.0300	0.048	0.043	< 0.010	0.008	< 0.002	0.084	< 0.020
	299	80-138	0.0900	< 0.005	0.050	< 0.010	< 0.003	< 0.002	0.080	
	299	80-180	0.0700	3.230	0.040	< 0.010	< 0.003	< 0.002	0.080	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CO	CR	CU	FE	LI
199-B4-4	300	SITE-41			0.010		0.010		0.030	0.010
199-D5-12	301	SITE-80	< 0.0500	0.070	0.030	< 0.005	0.100	< 0.010	< 0.005	0.010
199-D8-3	302	SITE-72	0.0500	0.070	0.007	0.005	0.100	< 0.010	0.003	0.005
199-F5-1	303	SITE-82	< 0.0500	0.070	0.030	< 0.005	< 0.050	< 0.010	0.010	< 0.010
199-H4-3	304	SITE-81	< 0.0500	0.070	0.050	< 0.005	1.000	0.100	0.005	0.010
199-K-19	305	SITE-83	< 0.0500	0.030	0.010	< 0.005	0.050	< 0.010	< 0.005	< 0.010
199-N-15	306	SITE-42			0.010				0.030	
299-E26-8	307	SITE-165		0.031		< 0.012		0.049	< 0.030	
299-E33-12	308	SITE-169		0.026		< 0.018		< 0.001	0.050	
399-1-3	309	SITE-43	0.0200		0.020			0.001	0.030	
399-4-10	310	SITE-44	0.0200		0.080	0.002	0.010	0.001	0.030	
399-8-4	311	SITE-140	< 0.0500	0.050	0.010	< 0.005	< 0.050	< 0.010	< 0.005	0.010
699-1-18	312	SITE-145	0.0700	0.050	0.010	0.005	< 0.050	< 0.010	0.010	0.010
699-10-E12	313	SITE-147	< 0.0500	0.050	0.050	< 0.005	< 0.050	< 0.010	0.010	0.007
699-11-45A	314	SITE-148	< 0.0500	0.050	< 0.010	< 0.005	< 0.050	< 0.010	0.050	0.007
699-13-1A	315	SITE-60	0.0700	0.052	0.030	< 0.005	< 0.050	< 0.010	< 0.005	0.010
699-14-38	316	SITE-61	0.0700	0.070	0.030	< 0.005	< 0.050	< 0.010	0.050	0.010
	317	SITE-86	< 0.0500	0.070	0.030	< 0.005	< 0.050	< 0.010	0.010	0.010
699-15-15B	318	SITE-13	0.0050	0.051	0.020	< 0.002	0.001	0.001	0.020	0.006
	319	SITE-149	< 0.0500	0.050	0.010	< 0.005	< 0.050	< 0.010	0.010	0.010
699-15-26	320	SITE-24	0.0100	0.060	0.030	0.006	0.006		0.020	0.010
	321	SITE-150	< 0.0500	0.050	0.030	< 0.005	< 0.050	< 0.010	< 0.010	0.010
699-17-5	322	SITE-18	0.4700	0.067	0.015	< 0.002	0.001	0.004	3.900	0.005
	323	SITE-151	< 0.0500	0.030	0.010	< 0.005	< 0.050	< 0.010	0.030	0.007
699-19-43	324	SITE-48			0.010				0.010	0.010
	325	SITE-121	0.1000	0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.005	0.010
699-2-3	326	SITE-1	0.0070	0.050	0.012	< 0.002	0.004	0.010	0.060	0.005
699-2-33	327	SITE-85	< 0.0500	0.050	0.010	< 0.005	< 0.050	< 0.010	0.030	0.010

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
699-2-33	328	SITE-146	0.0700	0.030	0.010	0.005 <	0.050 <	0.010	0.030	0.010
699-20-20	329	SITE-25	0.0100	0.090	0.030	0.007	0.007		0.020	0.010
699-20-E5-0	330	SITE-49		0.100	0.010			0.001	0.020	
699-24-33	331	SITE-28	0.0100	0.050	0.040	0.007	0.007		0.030	
699-24-46	332	SITE-122	0.1000	0.050 <	0.005 <	0.005 <	0.050 <	0.010	0.050	0.010
699-25-55	333	SITE-100	0.5000	0.050	0.030	0.010	0.070 <	0.010	0.030	0.010
699-26-15	334	SITE-26	0.0100	0.070	0.030	0.007	0.007		0.010	
699-27-4	335	SITE-101	0.5000	0.070	0.030	0.010	0.070 <	0.010	0.010	0.010
699-27-8	336	SITE-5	0.0060	0.065	0.015 <	0.002	0.004	0.002	0.020	0.005
	337	SITE-30	0.0200	0.060	0.020	0.007	0.007		0.010	
	338	SITE-50		0.100	0.020				0.020	0.010
	339	SITE-76	0.0700	0.050	0.030 <	0.005	0.009 <	0.010	0.010	0.010
	340	SITE-87	< 0.0500	0.100	0.050 <	0.005 <	0.050 <	0.010	0.010	0.010
699-28-40	341	SITE-68	0.0700	0.050	0.030 <	0.005 <	0.050 <	0.010	0.010	0.007
699-31-31	342	SITE-69	0.0700	0.050	0.030 <	0.005 <	0.050 <	0.010	0.010	0.007
	343	SITE-102	0.5000	0.050	0.030	0.007	0.070 <	0.010	0.010	0.010
699-31-53B	344	SITE-88	0.0700	0.050	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-32-22	345	SITE-17	0.1000	0.044	0.015 <	0.003	0.004	0.005	0.120	0.005
	346	SITE-27	0.0100	0.050	0.030	0.007	0.007		0.030	
	347	SITE-51		0.100	0.020	0.002		0.001	0.030	0.010
	348	SITE-65	0.1000	0.050	0.030 <	0.005 <	0.050	0.005	0.010	0.007
	349	SITE-89	< 0.0500	0.070	0.030 <	0.005 <	0.050 <	0.010	0.010	0.010
699-32-70	350	SITE-70	0.0500	0.030	0.010 <	0.005 <	0.050 <	0.010	0.007	0.005
	351	SITE-90	< 0.0500	0.050	0.030 <	0.005	0.050 <	0.010 <	0.005 <	0.010
	352	SITE-152	< 0.0500	0.070	0.010 <	0.005 <	0.050 <	0.010	0.030	0.010
699-32-72	353	SITE-35	0.0100	0.020	0.020	0.005	0.005	0.001	0.140	0.010
699-32-77	354	SITE-103	0.5000	0.030	0.030 <	0.005 <	0.050 <	0.010	0.010 <	0.010
699-33-42	355	SITE-12	0.0750	0.037	0.030 <	0.002	0.005	0.025	0.730	0.007
	356	SITE-29	0.0200	0.040	0.040	0.006	0.006	0.001	0.060	
	357	SITE-52			0.030				0.120	0.010
	358	SITE-67	0.0700	0.030	0.030 <	0.005 <	0.050 <	0.010	0.030	0.010
	359	SITE-91	< 0.0500	0.050	0.030 <	0.005 <	0.050 <	0.010	0.010	0.010
699-33-56	360	SITE-8	0.0900	0.063	0.016 <	0.002	0.009	0.009	2.400	0.007

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
699-33-56	361	SITE-40	0.0100	0.070	0.020	0.007	0.007		0.010	0.010
	362	SITE-53		0.100	0.020				0.030	0.010
	363	SITE-62	0.0700	0.070	0.030 <	0.005 <	0.050 <	0.010	0.007	0.010
	364	SITE-92	0.0700	0.070	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-34-39A	365	SITE-93	< 0.0500	0.030	0.030 <	0.005 <	0.050 <	0.010	0.030	0.010
699-34-42	366	SITE-33	0.0200	0.050	0.030	0.007	0.007	0.001	0.030	
	367	SITE-183	0.0500	0.030	0.030	0.005 <	0.050 <	0.010	0.010	0.010
699-34-51	368	SITE-66	0.1000	0.050	0.030 <	0.005 <	0.050 <	0.010	0.010	0.010
699-35-66	369	SITE-77	0.0700	0.030	0.010 <	0.005 <	0.050 <	0.010	0.005	0.007
	370	SITE-94	< 0.0500	0.050	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-35-70	371	SITE-36	0.0100	0.050	0.020	0.008	0.001	0.001	0.010	
699-35-78	372	SITE-54			0.030				0.030	0.010
699-35-9	373	SITE-31	0.0300	0.070	0.020	0.006	0.006		0.010	0.010
	374	SITE-104	0.5000	0.070	0.030	0.070	0.070 <	0.010	0.010	0.010
699-36-61A	375	SITE-95	0.0500	0.070	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-37-43	376	SITE-34	0.0100	0.040	0.030	0.006	0.006		0.030	0.020
	377	SITE-173		0.059		<	0.018 <	0.001 <	0.030	
699-37-82A	378	SITE-105	0.5000	0.050	0.010 <	0.005 <	0.050 <	0.010	0.005	0.010
699-38-70	379	SITE-37	0.0100	0.100	0.020	0.010	0.010		0.010	0.010
699-4-E6	380	SITE-47	0.0100		0.010				0.040	
699-40-1	381	SITE-10	0.1300	0.040	0.016 <	0.002	0.003	0.022	0.180	0.006
	382	SITE-106	0.3000	0.070	0.010 <	0.005 <	0.050 <	0.010	0.010	0.010
699-40-33	383	SITE-55	0.0100		0.030			0.002	0.170	0.020
699-40-62	384	SITE-56			0.020				0.030	0.010
699-41-23	385	SITE-15	0.0140	0.033	0.020 <	0.002	0.001	0.002	0.310	0.005
	386	SITE-113	0.0500	0.050	0.030	0.007	0.050 <	0.010	0.010	0.010
699-42-12	387	SITE-2	0.0100	0.050	0.020 <	0.002	0.005	0.002	0.030	0.007
	388	SITE-155	< 0.0500	0.050	0.010 <	0.005 <	0.050 <	0.010	0.010	0.010
699-42-2	389	SITE-154	0.1000	0.050	0.050 <	0.005 <	0.050 <	0.010	0.100	0.010
699-42-40A	390	SITE-174		0.045		<	0.031 <	0.001 <	0.030	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
699-42-40C	391	SITE-175						< 0.050		
699-42-42	392	SITE-114	0.3000	0.070	0.030	0.007	0.050 <	0.010	0.010	0.010
699-43-88	393	SITE-123	0.3000	0.040 <	0.005 <	0.005 <	0.050 <	0.010	0.030	0.010
699-45-42	394	SITE-57			0.009				0.010	0.010
699-45-69	395	SITE-96	0.0500	0.030	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-46-21	396	SITE-75	0.0700	0.050	0.010 <	0.005 <	0.050 <	0.010	0.030	0.010
	397	SITE-124	0.1000	0.005 <	0.005	0.007	0.070 <	0.010	0.030	0.010
699-46-5	398	SITE-156	< 0.0500	0.030	0.010	0.005 <	0.050 <	0.010	0.010	0.010
699-47-55A	399	SITE-182						<	0.030	
699-48-18	400	SITE-125	0.1000	0.040 <	0.005 <	0.005 <	0.050 <	0.010	0.005	0.010
699-48-71	401	SITE-59			0.009				0.010	0.010
699-49-55	402	SITE-9	0.1000	0.034	0.020 <	0.002 <	0.003	0.001	0.180	0.006
	403	SITE-39	0.0100	0.040	0.020	0.008	0.008		0.020	0.010
	404	SITE-58		0.100	0.020				0.010	0.010
	405	SITE-78	0.1000	0.030	0.030 <	0.005 <	0.050 <	0.010	0.007	0.007
	406	SITE-97	< 0.0500	0.030	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
	407	SITE-126	0.1000	0.030 <	0.005	0.007	0.070 <	0.010	0.020	0.010
	408	SITE-157	0.0700	0.030	0.030 <	0.005 <	0.050 <	0.010	0.007	0.010
699-49-57	409	SITE-38	0.0500	0.090	0.030	0.010	0.014	0.033	0.120	0.010
699-49-79	410	SITE-20	0.1300	0.030	0.012 <	0.002 <	0.001	0.007	0.590	0.003
699-50-28B	411	SITE-63	0.0700	0.050	0.010 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-50-42	412	SITE-14	0.2300	0.048	0.016 <	0.002 <	0.008	0.010	0.970	0.006
	413	SITE-115	0.5000	0.030	0.030	0.010	0.070 <	0.010	0.030	0.010
699-50-8	414	SITE-64	0.0700	0.050	0.030 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-50-85	415	SITE-127	0.3000	0.040 <	0.005	0.007	0.070	0.010	0.020	0.010
699-51-63	416	SITE-116	0.5000	0.030	0.010	0.007	0.050 <	0.010	0.010	0.010
699-53-103	417	SITE-160		0.000	0.020	0.000	0.000	0.000	0.120	0.020
699-55-50C	418	SITE-79	< 0.0500	0.007	0.010 <	0.005 <	0.050 <	0.010	0.010	0.005
	419	SITE-128	0.1000	0.020 <	0.005	0.007	0.070 <	0.010	0.040	0.010
	420	SITE-193		0.015	<	0.013 <	0.013 <	0.001 <	0.030	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
699-55-76	421	SITE-71	0.0500	0.050	0.010 <	0.005 <	0.050 <	0.010	0.005	0.005
	422	SITE-117	0.3000	0.030	0.030	0.005 <	0.050 <	0.010	0.010	0.010
	423	SITE-129	0.1000	0.030 <	0.005 <	0.005 <	0.050 <	0.010	0.020	0.010
699-55-89	424	SITE-118	0.5000	0.050	0.010 <	0.005 <	0.050 <	0.010	0.010	0.010
699-56-53	425	SITE-194						<	0.050	
	426	SITE-195						<	0.050	
699-57-25A	427	SITE-119	0.5000	0.030	0.030	0.005 <	0.050 <	0.010	0.010	0.010
699-57-83	428	SITE-130	0.1000	0.020 <	0.005	0.007	0.070 <	0.010	0.020	0.010
699-59-58	429	SITE-107	0.3000	0.030	0.030	0.007	0.050 <	0.010	0.030	0.010
699-60-57	430	SITE-198		0.029	<	0.003 <	0.002 <	0.001 <	0.030	
699-62-31	431	SITE-131	0.1000	0.050 <	0.005	0.010	0.070 <	0.010	0.500	0.010
699-63-25A	432	SITE-132	0.1000	0.050 <	0.005 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-63-90	433	SITE-74	0.0700	0.010	0.010 <	0.005 <	0.050 <	0.010	0.010	0.007
	434	SITE-133	0.1000	0.020 <	0.005	0.007	0.070 <	0.010	0.030	0.010
699-64-27	435	SITE-158	0.1000	0.070	0.010	0.005 <	0.050 <	0.010	0.010	0.030
699-65-50	436	SITE-73	0.0700	0.010	0.030 <	0.005 <	0.050 <	0.010	0.030	0.007
	437	SITE-134	0.3000	0.020 <	0.005	0.007	0.070 <	0.010	0.050	0.010
699-66-39	438	SITE-135	0.1000	0.020 <	0.005	0.007	0.070 <	0.010	0.020	0.010
699-66-58	439	SITE-136	0.3000	0.020 <	0.005	0.007	0.070 <	0.010	0.040	0.010
699-66-64	440	SITE-137	0.1000	0.020 <	0.005	0.007	0.070	0.010	0.030	0.010
699-69-38	441	SITE-6	0.1100	0.062	0.010 <	0.003 <	0.003	0.003	0.330	0.016
699-71-30	442	SITE-108	0.3000	0.050	0.030	0.005 <	0.050 <	0.010	0.010	0.010
699-71-52	443	SITE-138	0.1000	0.040 <	0.005 <	0.005 <	0.050 <	0.010 <	0.005	0.010
699-72-73	444	SITE-109	0.5000	0.030	0.030	0.010	0.070 <	0.010	0.010	0.010
699-72-88	445	SITE-98	< 0.0500	0.050	0.030 <	0.005 <	0.050 <	0.010	0.030 <	0.010
699-77-36	446	SITE-110	0.3000	0.070	0.100 <	0.005 <	0.050 <	0.010	0.007	0.030
699-78-62	447	SITE-111	0.3000	0.030	0.010 <	0.005	0.100 <	0.010	0.005	0.010
699-8-17	448	SITE-23	0.0200	0.040	0.020	0.006	0.006		0.010	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CO	CR	CU	FE	LI
699-8-25	449	SITE-32	0.0200	0.040	0.030	0.006	0.006		0.010	
699-8-32	450	SITE-19		0.044	0.017 <	0.002 <	0.001	0.002	0.360	0.006
699-81-58	451	SITE-159	< 0.0500	0.010 <	0.005 <	0.005 <	0.050 <	0.010	0.005	0.005
699-83-47	452	SITE-112	0.3000	0.050	0.010 <	0.050	0.070 <	0.010 <	0.005	0.010
699-87-55	453	SITE-99	< 0.0500	0.030	0.030 <	0.005	0.100 <	0.010 <	0.005	0.010
699-9-E2	454	SITE-16	0.0650	0.048	0.020 <	0.002 <	0.008	0.007	0.130	0.010
699-90-45	455	SITE-139	0.1000	0.050 <	0.005	0.010	0.050 <	0.010	0.500	0.010
699-HANFORD-19	456	SITE-3						0.002	0.050	
699-811-E12A	457	SITE-4	0.0520	0.053	0.013 <	0.002	0.008	0.007	0.330	0.005
699-812-3	458	SITE-45			0.040				0.020	
	459	SITE-143	< 0.0500	0.030	0.007 <	0.005 <	0.050 <	0.010	0.010	0.007
699-819-E13	460	SITE-120	0.3000	0.050 <	0.005 <	0.005 <	0.050 <	0.010	0.020	0.010
699-829-E12	461	SITE-21	0.0100	0.060	0.030	0.006	0.006		0.010	
699-83-25	462	SITE-7	0.2700	0.062	0.057 <	0.002	0.010	0.011	1.600	0.008
	463	SITE-142	0.0500	0.070	0.070	0.005 <	0.050 <	0.010	0.030	0.030
699-83-E12	464	SITE-22	0.0400	0.020	0.020	0.004	0.004		0.020	
	465	SITE-141	< 0.0500	0.030	0.010 <	0.005 <	0.050 <	0.010	0.010	0.007
699-830-E15A	466	SITE-144	< 0.0500	0.050	0.010 <	0.005 <	0.050 <	0.010	0.007	0.010
699-86-E4D	467	SITE-11	0.0300	0.064	0.020 <	0.002 <	0.001	0.004	0.130	0.007
699-88-19	468	SITE-46	0.0100		0.150				0.020	
	469	SITE-84	< 0.0500	0.050	0.100 <	0.005 <	0.050 <	0.010 <	0.005	0.010
RRL-06A	470	B2-35	< 0.0800	0.050 <	0.020 <	0.020 <	0.030	0.009 <	0.006 <	0.006
	470	B2-40	< 0.0600	0.050 <	0.020 <	0.020 <	0.030	0.010 <	0.006 <	0.006

TRACE ELEMENTS FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
BENNETT SPRING	472	79-13	0.0600	0.040 <	0.005 <	0.010 <	0.003 <	0.002	0.007 <	0.020
BUTLER SPRING	474	79-1	0.3000	0.250	0.022	0.049	0.061	0.057	0.057 <	0.020
	474	79-50	0.3100	0.250	0.030	0.049	0.060	0.059	0.067 <	0.020
GULCH SPRING	475	84-359	< 0.0700	0.024 <	0.022 <	0.015 <	0.038 <	0.006 <	0.006 <	0.006
	475	84-383	< 0.0700	0.024 <	0.022 <	0.015 <	0.026 <	0.006 <	0.006 <	0.006
JUNIPER SPRING	477	79-2	0.0400	0.018 <	0.005 <	0.010 <	0.003 <	0.002	0.030 <	0.020
	477	79-43	0.0500	0.010 <	0.005 <	0.010 <	0.003 <	0.002	0.010 <	0.020
	478	81-115	< 0.0170	0.009	0.002 <	0.004 <	0.006 <	0.003 <	0.002	0.008
	478	81-161	< 0.0170	0.008 <	0.012 <	0.004 <	0.006 <	0.003	0.030	0.008
	479	83-305	< 0.0800	0.010 <	0.020 <	0.010 <	0.040 <	0.010	0.040	0.010
	479	83-372	< 0.0800	0.010 <	0.020 <	0.010 <	0.040 <	0.010	0.050	0.010
LOWER BNIVELY SPRING	480	79-19	0.0400 <	0.005 <	0.005 <	0.010 <	0.003 <	0.002	0.010 <	0.020
	480	79-34	0.0400 <	0.005	0.044 <	0.010 <	0.003 <	0.002 <	0.002 <	0.020
	481	82-362	< 0.0800	0.009 <	0.020 <	0.010 <	0.030 <	0.006 <	0.006 <	0.006
	481	82-377	< 0.0800	0.008 <	0.020 <	0.010 <	0.030 <	0.006 <	0.006 <	0.006
	482	83-311	< 0.0800	0.010 <	0.020 <	0.010 <	0.040 <	0.010	0.020 <	0.010
	482	83-396	< 0.0800	0.010 <	0.020 <	0.010 <	0.040 <	0.010	0.030 <	0.010
LOZIER SPRING	483	79-44	0.0600 <	0.005 <	0.005 <	0.010 <	0.003 <	0.002	0.010 <	0.020
	483	79-6	0.0700 <	0.005 <	0.005 <	0.010 <	0.003 <	0.002	0.020 <	0.020
	484	81-116	< 0.0170	0.006 <	0.012 <	0.004 <	0.006 <	0.003	0.020 <	0.003
	484	81-186	< 0.0170	0.006 <	0.012 <	0.004 <	0.006 <	0.003 <	0.002 <	0.003
	485	83-316	< 0.0800	0.050 <	0.020 <	0.010 <	0.040 <	0.010 <	0.010 <	0.010
	485	83-343	< 0.0800	0.040 <	0.020 <	0.010 <	0.040 <	0.010	0.020 <	0.010
MAIDEN SPRING	486	79-67	0.0280	0.013 <	0.005 <	0.010 <	0.003	0.051	0.025 <	0.020
	486	79-96	0.0300	0.012 <	0.005 <	0.010 <	0.003	0.050	0.022 <	0.020
	487	83-420	< 0.0800	0.005 <	0.020 <	0.010 <	0.040 <	0.010	0.010 <	0.010
	487	83-435	< 0.0800	0.005 <	0.020 <	0.010 <	0.040 <	0.010	0.010 <	0.010
OBSERVATORY SPRING	488	84-310	< 0.0700	0.033 <	0.023 <	0.015 <	0.036 <	0.006 <	0.006 <	0.006
	488	84-392	< 0.0700	0.038 <	0.023 <	0.015 <	0.036 <	0.006 <	0.006 <	0.006
	489	84-329	< 0.0650 <	0.003 <	0.014 <	0.017 <	0.034 <	0.005	0.012 <	0.008
	489	84-366	< 0.0650 <	0.004 <	0.014 <	0.017 <	0.034 <	0.005	0.029 <	0.008
	490	81-119	< 0.0170	0.004	0.050 <	0.004 <	0.006 <	0.003 <	0.002 <	0.003
	490	81-157	< 0.0170	0.004	0.030 <	0.004 <	0.006 <	0.003 <	0.002 <	0.003
	491	83-433	< 0.0800	0.010 <	0.020 <	0.010 <	0.040 <	0.010	0.010 <	0.010
	491	83-461	< 0.0800	0.010 <	0.020 <	0.010 <	0.040 <	0.010	0.010 <	0.010
RAILROAD SPRING	492	79-76	< 0.0100 <	0.005 <	0.030 <	0.010 <	0.003 <	0.002	0.040 <	0.020
	492	79-81	< 0.0100 <	0.005 <	0.030 <	0.010 <	0.003 <	0.002	0.030 <	0.020
RATTLESNAKE SPRING	493	SITE-216	< 0.0500							
	494	79-87	0.0640	0.075	0.083 <	0.010 <	0.003 <	0.002	0.210 <	0.020
	494	79-88	0.0700	0.073	0.074 <	0.010 <	0.003 <	0.002	0.270 <	0.020
	495	83-412	< 0.0800	0.060 <	0.020 <	0.010 <	0.040 <	0.010	0.020 <	0.010

TRACE ELEMENTS FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CO	CR	CU	FE	LI
RATTLESNAKE SPRING	495	83-466	< 0.0800	0.060 <	0.020 <	0.010 <	0.040 <	0.010	0.030 <	0.010
SNIVELY SPRING	496	79-37	0.0700	0.010 <	0.005 <	0.010 <	0.003 <	0.002	0.036 <	0.020
	496	79-49	0.0800	0.010 <	0.005 <	0.010 <	0.003 <	0.002	0.029 <	0.020
SULPHUR SPRINGS	497	79-29	< 0.0100 <	0.005	0.030 <	0.010 <	0.003 <	0.002	0.060	
	497	79-36	< 0.0100 <	0.005	0.030 <	0.010 <	0.003 <	0.002	0.100	
	498	83-409	< 0.0800	0.030 <	0.020 <	0.010 <	0.040 <	0.010	0.020 <	0.010
	498	83-442	< 0.0800	0.030 <	0.020 <	0.010 <	0.040 <	0.010	0.030 <	0.010
UNNAMED SPRING #02	499	79-75	0.1900	0.020	0.030 <	0.010	0.010	0.030	0.320 <	0.020
UNNAMED SPRING #16	500	79-73	0.0740	0.022	0.085 <	0.010 <	0.003 <	0.002	0.080 <	0.020
	500	79-82	0.0450	0.021	0.080 <	0.010 <	0.003 <	0.002	0.044 <	0.020
UNNAMED SPRING #26	501	79-54	0.1600	0.152	0.070	0.020 <	0.003 <	0.002	4.350 <	0.020
	501	79-98	0.2000	0.163	0.060 <	0.010 <	0.003 <	0.002	4.600 <	0.020
UNNAMED SPRING #29	502	79-16	0.0900	0.030	0.027 <	0.010 <	0.003 <	0.002	0.030 <	0.020
	502	79-24	0.0930	0.030	0.030 <	0.010 <	0.003 <	0.002	0.010 <	0.020
UPPER SNIVELY SPRING	503	79-69	0.0600 <	0.010 <	0.005	0.020	0.020	0.030 <	0.005 <	0.020
	503	79-71	0.0700 <	0.010 <	0.005	0.013	0.020	0.030 <	0.020 <	0.020
	504	81-126	< 0.1200	0.004 <	0.010 <	0.020 <	0.040 <	0.005 <	0.006 <	0.008
	504	81-200	< 0.1200	0.005 <	0.010 <	0.020 <	0.040 <	0.005 <	0.006 <	0.008
	505	83-503	< 0.0800	0.003 <	0.020 <	0.010 <	0.040 <	0.010 <	0.010 <	0.010
	505	83-547	< 0.0800	0.003 <	0.020 <	0.010 <	0.040 <	0.010 <	0.010 <	0.010
WARM SPRING	506	84-358	< 0.0700	0.004	0.034 <	0.015 <	0.036 <	0.006	0.026 <	0.006
	506	84-371	< 0.0700	0.004	0.032 <	0.015 <	0.036 <	0.006	0.034 <	0.006

TRACE ELEMENTS FOR SURFACE

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CO	CR	CU	FE	LI
COL RIV @ VERNITA BR	508	84-330	< 0.0650	0.028	< 0.014	< 0.017	< 0.034	< 0.005	< 0.007	< 0.008
	508	84-361	< 0.0650	0.028	< 0.014	< 0.017	< 0.034	< 0.005	0.015	< 0.008
	509	84-311	< 0.0650	0.028	< 0.014	< 0.017	< 0.034	< 0.005	< 0.008	< 0.008
	509	84-356	< 0.0650	0.030	< 0.014	< 0.017	< 0.034	< 0.005	< 0.007	< 0.008
COL RIVER @ DC-14	510	83-211	< 0.0800	0.034	< 0.020	< 0.020	< 0.040	< 0.006	0.020	< 0.006
	510	83-258	< 0.0800	0.031	< 0.020	< 0.010	< 0.040	< 0.010	0.030	< 0.010
COLD CREEK	513	84-317	< 0.0650	0.024	< 0.014	< 0.017	< 0.034	< 0.005	0.046	0.008
	513	84-336	< 0.0650	0.024	< 0.014	< 0.017	< 0.034	< 0.005	0.010	0.008
	514	84-302	< 0.0650	0.024	< 0.017	< 0.034	< 0.034	< 0.005	0.014	< 0.008
	514	84-345	< 0.0650	0.024	< 0.014	< 0.017	< 0.034	< 0.005	0.021	< 0.008

TRACE ELEMENTS FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	AL	BA	B	CD	CR	CU	FE	LI
STATION 03	516	82-51	< 0.0755	0.016	< 0.023	< 0.015	< 0.036	< 0.006	0.063	< 0.006
STATION 04	530	82-61	0.2327	0.009	< 0.023	< 0.015	< 0.036	< 0.006	0.493	< 0.006
STATION 07	546	82-92	< 0.0755	0.002	< 0.023	< 0.015	< 0.036	< 0.006	0.097	< 0.006
STATION 14	560	82-20	< 0.0755	0.003	< 0.023	< 0.015	< 0.036	< 0.006	0.202	< 0.006
STATION 17	576	82-70	< 0.0755	0.002	< 0.023	< 0.015	< 0.036	< 0.006	0.462	< 0.006
STATION 20	593	82-58	< 0.0755	0.001	< 0.023	< 0.015	< 0.036	< 0.006	0.803	< 0.006
	594	82-74	< 0.0755	< 0.001	< 0.023	< 0.015	< 0.036	< 0.006	0.141	< 0.006
STATION 25	609	82-83	0.1107	0.004	< 0.023	< 0.015	< 0.036	< 0.006	0.248	< 0.006
	610	82-66	< 0.0755	< 0.001	< 0.023	< 0.015	< 0.036	< 0.006	0.124	< 0.006
STATION 26	628	82-91	< 0.0755	0.001	< 0.023	< 0.015	< 0.036	< 0.006	1.037	< 0.006
	629	82-98	< 0.0755	< 0.001	< 0.023	< 0.015	< 0.036	< 0.006	0.065	< 0.006

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
299-E16-1	1	SITE-161			< 0.012	< 0.020		0.081	
	2	SITE-162							
	3	SITE-163							
	4	SITE-164							
299-E26-8	5	SITE-166							
	6	SITE-167			< 0.002	< 0.049		0.117	
	7	SITE-168			< 0.002	< 0.049		0.117	
299-E33-12	8	SITE-170							
	9	SITE-171	< 0.0020			< 0.048		0.097	
	10	SITE-172	< 0.0020			< 0.048		0.097	
699-42-40C	11	SITE-177							
	12	SITE-178							
	13	SITE-179							
	14	SITE-180							
	15	SITE-176							
699-47-50	17	SITE-181			< 0.002	< 0.028		0.097	
699-49-55B	18	SITE-183							
	19	SITE-184							
	20	SITE-185	< 0.0030		< 0.002	< 0.016		0.140	
699-50-45	22	SITE-186			< 0.006	< 0.025		0.117	
699-50-48	24	SITE-187	0.0330		< 0.016	< 0.013		0.085	
699-51-46	26	SITE-188			< 0.003	< 0.016		0.150	
699-52-46A	28	SITE-189	< 0.0030		< 0.003	< 0.011		0.081	
699-52-48	30	SITE-190	0.0054		< 0.003	< 0.018		0.088	
699-53-50	32	SITE-191			< 0.014	< 0.013		0.120	
699-54-57	33	SITE-192			< 0.014	< 0.016		0.226	
699-56-53	34	SITE-196			< 0.014	< 0.023		0.149	
	35	SITE-197			< 0.014	< 0.023		0.149	
DB-01	36	CP73	< 0.1000	< 0.100				< 0.005	
	36	CP82	< 0.1000	< 0.100				< 0.005	
	38	81-19	< 0.1000	< 0.030	< 0.020	< 0.010	0.010	< 0.002	< 0.200
	39	81-65		0.110	< 0.008	< 0.043	0.002	< 0.004	0.080
	39	81-70		0.110	< 0.008	< 0.043	0.002	< 0.004	0.080
	40	82-27	< 0.0030	0.100	< 0.026	< 0.160	0.002	< 0.150	< 0.340
	40	82-87	< 0.0030	0.100	< 0.026	< 0.160	0.002	< 0.015	< 0.340

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DB-02	43	CP74	< 0.5000	0.130				< 0.005	
	43	CP83	< 0.0200	0.130				< 0.005	
	44	CP123	< 0.0200	< 0.030				0.020	
	46	81-11		0.270	< 0.010	< 0.100	0.004	0.030	< 0.200
	46	81-13		0.280	< 0.010	< 0.100	0.004	0.030	< 0.200
	47	81-10		0.260	< 0.010	< 0.100	0.002	0.020	< 0.200
	47	81-7		0.240	< 0.010	< 0.100	0.003	0.020	0.300
DB-04	49	CP75	< 0.5000	0.130				< 0.005	
	49	CP84	< 0.0200	0.100				< 0.005	
	50	CP116	< 0.0240	< 0.030				0.100	
	51	CP117	< 0.0200	< 0.030				0.090	
DB-05	52	CP76	< 0.1000	< 0.100				< 0.005	
	52	CP85	< 0.1000	< 0.100				< 0.005	
	53	CP112	< 0.0200	< 0.030		< 0.100		0.060	
	54	CP113	< 0.0200	< 0.030				0.030	
DB-07	56	CP77	< 0.5000	0.080				< 0.005	
	56	CP86	< 0.0200	0.110				< 0.005	
	57	CP121	< 0.0200	< 0.030				0.020	
	59	83-413	0.0050	0.050	< 0.030	< 0.150	0.009	< 0.010	< 0.340
	59	83-448	0.0060	0.050	< 0.030	< 0.150	0.009	< 0.010	< 0.340
DB-09	60	CP54		< 0.100				0.010	
	61	CP59		< 0.020				0.044	
	62	CP78	< 0.1000	< 0.100				0.014	
	62	CP87	< 0.1000	< 0.100				< 0.005	
	63	CP114	< 0.0200	< 0.030				0.050	
	64	CP115	< 0.0200	< 0.030				0.050	
	66	83-410	0.0060	< 0.020	< 0.030	< 0.150	0.003	< 0.010	< 0.340
	66	83-472	0.0050	< 0.020	< 0.030	< 0.150	0.003	< 0.010	< 0.340
DB-10	67	CP79	< 0.1000	< 0.100				0.618	
	67	CP88	< 0.1000	< 0.100				0.653	
DB-11	74	CP80	< 0.1000	< 0.100				< 0.005	
	74	CP89	< 0.1000	< 0.100				< 0.005	
	75	81-57	0.3360	0.131	< 0.010	< 0.100	0.060	0.071	< 0.020
DB-12	76	63-95		< 0.020				< 0.005	
	77	CP65		0.130				0.020	
	78	CP66		< 0.020				0.037	
	79	CP67		< 0.020				0.015	
	80	CP68	< 0.0100	< 0.005				0.334	
	81	81-25		0.210	< 0.010	< 0.100	0.080	0.060	< 0.200
	81	81-42		0.210	< 0.010	< 0.100	0.080	0.080	< 0.200
DB-13	82	CP69		< 0.005				0.048	
	83	CP70		0.130				0.073	

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DB-13	84	CP71	< 0.005				< 0.005		
	85	CP72		0.130				0.050	
	86	CP91		0.100			< 0.005		
	87	CP92	< 0.5000	0.070			< 0.005		
	88	CP96	< 0.5000	0.160				0.265	
	89	CP95	< 0.0100	0.110				0.018	
	90	CP97A	< 0.020	< 0.005	< 0.020	0.060	< 0.005		
	90	CP97B	< 0.020	< 0.005	< 0.020	0.059	< 0.005		
	92	B3-404	< 0.020	< 0.030	< 0.150	0.050	< 0.010	< 0.340	
	92	B3-455	< 0.020	< 0.030	< 0.150	0.050	< 0.010	< 0.340	
DB-14	93	CP93	< 0.5000	0.130				0.018	
	93	CP94	< 0.5000	0.100				0.015	
	94	CP98	< 0.020					0.129	
	95	CP99	< 0.020		< 0.020			0.141	
	96	CP100	< 0.0050	< 0.020				0.050	
	97	CP101	< 0.020		< 0.020			0.109	
	98	CP102	< 0.0100	< 0.020	< 0.020			0.023	
	99	CP103	< 0.0100	< 0.020	< 0.020			0.093	
	100	CP119	< 0.030					0.037	
	101	B1-139		0.110	< 0.008	< 0.040	0.007	0.003	0.110
	101	B1-162		0.110	< 0.008	< 0.040	0.007	0.006	0.130
DB-15	102	79-17	< 0.0200	< 0.030	< 0.020	0.110	0.148	0.090	< 0.200
	102	79-4	< 0.0200	< 0.010	< 0.010	< 0.010	0.160	0.100	< 0.100
	103	79-20	0.0120	< 0.030	< 0.020	< 0.100	0.012	0.060	0.100
	103	79-35	0.0380	< 0.030	< 0.020	< 0.100	0.011	0.060	0.240
	104	79-27	< 0.0200	< 0.010	< 0.010	< 0.100	0.007	0.010	0.150
	104	79-33	< 0.0200	< 0.010	< 0.010	< 0.010	0.006	0.010	0.150
	105	79-15		0.270	0.030	0.290	0.060	0.060	0.600
	105	79-46		0.310	0.040	0.340	0.060	0.060	0.600
	106	79-39	0.0590	0.180	0.030	0.300	0.059	0.060	0.660
	106	79-8		0.210	0.020	0.300	0.059	0.060	0.700
	107	79-31	< 0.0200	< 0.030	< 0.020	< 0.100	0.007	0.030	0.500
	107	79-5	< 0.0200	< 0.030	< 0.020	< 0.100	0.007	0.040	0.420
	109	79-51	< 0.0200	0.600	< 0.020	< 0.100	0.008	< 0.010	< 0.200
	109	79-61	< 0.0200	0.600	< 0.020	< 0.100	0.007	< 0.010	< 0.200
	110	79-74		0.500	< 0.020	0.200	0.012	0.100	< 0.200
	110	79-85		0.600	< 0.020	< 0.100	0.013	0.200	< 0.200
	111	79-80	< 0.030	< 0.020	< 0.100	0.006		0.040	< 0.200
	111	79-99		0.060				0.050	
	112	79-62	< 0.030	< 0.020	< 0.100	0.011		0.080	0.600
	112	79-84		0.400	< 0.020	< 0.100	0.011	0.080	0.600
	113	79-90		0.390	< 0.020	< 0.100	< 0.001	0.560	0.500
	113	79-95		0.280	< 0.020	< 0.100	0.012	0.560	0.450
	114	80-35	< 0.030	< 0.020	< 0.100	0.016		0.600	0.300
	114	80-41	< 0.0200	0.300	< 0.020	0.120	0.015	0.620	0.230
	115	80-24	< 0.0200	< 0.030	< 0.020	0.120	< 0.001	0.040	< 0.200
	115	80-74	< 0.0200	< 0.030	< 0.020	0.140	< 0.001	0.010	< 0.200
	116	80-42	< 0.0200	0.200	< 0.020	< 0.100	0.007	0.020	< 0.200

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DB-15	116	80-77	< 0.0200	< 0.030	< 0.020	< 0.100	0.007	< 0.020	< 0.200
	117	80-1	< 0.0200	< 0.030	< 0.020	< 0.100	0.006	< 0.010	< 0.200
	117	80-81	< 0.0200	0.300	< 0.020	< 0.100	0.005	< 0.010	< 0.200
DC-01	118	SITE-230							
	119	SITE-226							
	120	SITE-227							
	121	SITE-228							
	122	SITE-229							
	123	SITE-231							
	124	SITE-232							
	125	SITE-233							
	126	SITE-234							
	127	SITE-235							
	128	SITE-236							
	129	SITE-237							
	130	SITE-238							
	131	SITE-239							
	132	SITE-240							
	133	SITE-241							
	134	SITE-242							
	135	SITE-243							
DC-02A	136	80-25		0.500	< 0.020	1.300	0.217	2.960	2.400
	136	80-4		0.500	< 0.020	0.850	0.119	2.200	1.500
	137	SITE-213		0.320				0.260	
DC-03	138	80-27	0.0170	0.410	< 0.020	< 0.100	22.000	0.010	1.700
	138	80-81	0.0100	0.470	< 0.020	< 0.100	18.300	0.010	1.520
DC-05	139	79-30	< 0.0200	< 0.030	< 0.020	< 0.100	0.220	0.020	< 0.200
	139	79-32	< 0.0200	< 0.030	< 0.020	< 0.100	0.210	< 0.020	< 0.200
DC-06	140	80-147	<	< 0.030	< 0.020	< 0.100	< 0.001	0.140	0.240
	140	80-161	<	< 0.030	< 0.020	< 0.100	< 0.001	0.150	0.420
	141	80-22		0.500	0.160	0.300	0.010	3.100	0.400
	141	80-72		0.600	0.150	0.400	0.014	3.400	0.700
	142	SITE-214							
	143	80-201	< 0.0200	0.440	< 0.020	< 0.100	0.004	< 0.002	0.500
	143	80-238	< 0.0200	0.520	< 0.020	< 0.100	0.004	< 0.002	0.400
	144	80-186		0.580	< 0.020	< 0.100	0.007	0.030	0.260
	144	80-191	< 0.0200	< 0.030	< 0.020	< 0.100	0.003	< 0.002	0.250
	145	80-13		0.700	< 0.020	< 0.100	0.016	0.080	< 0.200
	145	80-58		0.900	< 0.020	< 0.100	0.017	0.090	0.400
	146	79-59		0.400	< 0.020	< 0.100	0.009	0.040	< 0.200
	146	79-97		0.400	< 0.020	< 0.100	< 0.009	0.030	< 0.200
	147	81-45		0.440	< 0.010	< 0.100	0.006	< 0.005	< 0.200
	147	81-8		0.400	< 0.010	< 0.100	0.006	< 0.005	0.300
	148	80-118	< 0.0200	0.660	< 0.020	0.110	0.008	0.200	< 0.200
	148	80-133	< 0.0200	0.900	0.030	0.190	0.009	0.110	< 0.200

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DC-06	149	80-15	< 0.0200	0.650	0.020	0.110	0.006	0.030	0.200
	149	80-70	< 0.0200	0.710	0.030	0.100	0.007	0.030	0.360
	150	81-76	< 0.0010	0.610 <	0.020 <	0.100	0.006 <	0.015	0.230
	150	81-82	< 0.0040	0.600 <	0.020 <	0.100	0.007 <	0.015	0.200
	151	80-29		0.420 <	0.020 <	0.100	0.004	0.002 <	0.200
	151	80-37	< 0.0200 <	0.030 <	0.020 <	0.100 <	0.001 <	0.002 <	0.200
	152	79-57	< 0.0200	0.750 <	0.020 <	0.100	0.005 <	0.010 <	0.200
	152	79-58	< 0.0200	0.560 <	0.020 <	0.100	0.006 <	0.010 <	0.200
	153	80-45	< 0.0200	0.160 <	0.020 <	0.100	0.007	0.010 <	0.200
	153	80-75	< 0.0200	0.230 <	0.020 <	0.100	0.007	0.010 <	0.200
DC-07	154	82-23	< 0.0030	0.080 <	0.020 <	0.150	0.011	0.050 <	0.340
	154	82-56	< 0.0030	0.100 <	0.020 <	0.150	0.011	0.060 <	0.340
	155	82-10	< 0.0030	0.470 <	0.020 <	0.150	0.010	0.050 <	0.340
	155	82-33	< 0.0030	0.440 <	0.020 <	0.150	0.010	0.050 <	0.340
	156	80-39	< 0.0200 <	0.030 <	0.020 <	0.100	0.008	0.240 <	0.200
	156	80-98	<	0.030 <	0.020 <	0.100	0.008	0.250	0.200
	157	80-11	< 0.0200	0.200 <	0.020	0.100	0.007	0.030 <	0.200
	157	80-19	< 0.0200	0.250 <	0.020 <	0.100	0.007	0.030 <	0.200
	158	79-52		0.600 <	0.020	0.130	0.009	0.070 <	0.200
	158	79-55		0.530 <	0.020 <	0.100	0.009	0.070	0.400
	159	80-103		0.800	0.980 <	0.100	0.150	0.780	0.900
	159	80-163		0.850	0.046	0.130	0.042	0.670	0.830
	160	80-178		1.400 <	0.020 <	0.100	0.023	0.420	0.240
	160	80-188		1.200 <	0.020 <	0.100	0.022	0.460	0.340
	161	80-177		1.020 <	0.020	1.560	0.040	12.200	0.650
	161	80-196		0.580 <	0.020	1.290	0.060	9.500	0.490
DC-12	162	80-62	< 0.0200	0.240 <	0.020 <	0.100	0.010 <	0.010 <	0.200
	162	80-80	< 0.0200	0.210 <	0.020 <	0.100	0.010 <	0.010 <	0.200
	163	80-100	< 0.0200 <	0.030 <	0.020 <	0.100	0.005 <	0.002 <	0.200
	163	80-63		0.050 <	0.020 <	0.100	0.009 <	0.002 <	0.200
	164	80-73	< 0.0200 <	0.030 <	0.020 <	0.100	0.031 <	0.002 <	0.200
	164	80-97	< 0.0200 <	0.030 <	0.020 <	0.100	0.030 <	0.002 <	0.200
	165	80-32	< 0.0200 <	0.030 <	0.020 <	0.100	0.025 <	0.002 <	0.200
	165	80-68	< 0.0200 <	0.030 <	0.020 <	0.100	0.025 <	0.002 <	0.200
	166	80-23	< 0.0200 <	0.030 <	0.020 <	0.100	0.025 <	0.002 <	0.200
	166	80-82	< 0.0200 <	0.030 <	0.020 <	0.100	0.025 <	0.002 <	0.200
	167	80-102	< 0.0200	0.260 <	0.020 <	0.100 <	0.012 <	0.002 <	0.200
	167	80-124	< 0.0200	0.310	0.020	0.120	0.012 <	0.002 <	0.200
	168	80-101	<	0.030 <	0.020 <	0.100	0.005	0.185	0.230
	168	80-169	<	0.030 <	0.020 <	0.100	0.003	0.110	0.240
	169	80-143							
	169	80-174	< 0.0200 <	0.030 <	0.020 <	0.100	0.001	0.007	0.340
	170	80-209	< 0.0200 <	0.030 <	0.020 <	0.100	0.005 <	0.002	0.260
	170	80-242	< 0.0200 <	0.030 <	0.020 <	0.100	0.004 <	0.002 <	0.200
	171	80-233	0.0320	0.200 <	0.020 <	0.100	0.007	0.130	0.250
	171	80-243	0.0330	0.200 <	0.020 <	0.100	0.008	0.140	0.260
	172	80-208		0.244 <	0.010 <	0.100	0.016 <	0.005 <	0.200
	172	80-234		0.170 <	0.010 <	0.100	0.015 <	0.005 <	0.200

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DC-12	173	81-61	< 0.1000	0.240 <	0.020 <	0.100	0.004 <	0.002 <	0.200
	173	81-72	0.1500	0.230 <	0.020 <	0.100	0.004 <	0.002 <	0.200
	174	82-47		0.160 <	0.026 <	0.160	0.003 <	0.015 <	0.340
	174	82-85		0.160 <	0.026 <	0.160	0.003 <	0.015 <	0.340
DC-14	175	80-3	< 0.0200	0.170 <	0.020 <	0.100	0.090 <	0.010 <	0.200
	175	80-34	< 0.0200	0.250 <	0.020 <	0.100	0.085 <	0.010 <	0.200
	176	80-16	< 0.0200	0.040 <	0.020 <	0.100	0.049	0.020	0.260
	176	80-53	< 0.0200	0.070 <	0.020 <	0.100	0.048	0.020 <	0.200
	177	80-47		0.180 <	0.020 <	0.100	0.102	0.040 <	0.200
	177	80-85		0.060 <	0.020 <	0.100	0.107	0.040 <	0.200
	178	80-69	< 0.0200 <	0.030	0.020 <	0.100	0.011	0.006	0.430
	178	80-83	< 0.0200 <	0.030 <	0.020 <	0.100	0.011 <	0.002	0.260
	179	80-55	< 0.0200 <	0.030 <	0.020 <	0.100	0.061	0.007	0.280
	179	80-99	< 0.0200 <	0.030 <	0.020 <	0.100	0.061 <	0.002	0.320
	180	80-36	< 0.0020 <	0.030 <	0.020 <	0.100	0.009 <	0.002	0.300
	180	80-89	< 0.0200 <	0.030	0.020 <	0.100	0.009 <	0.002	0.410
	181	80-2	0.0200 <	0.030 <	0.020 <	0.100	0.048 <	0.002	1.450
	181	80-71	< 0.0200 <	0.030 <	0.020 <	0.100	0.049	0.006	1.470
	182	80-136	< 0.0200 <	0.030 <	0.020 <	0.100	0.017 <	0.002 <	0.200
	182	80-144	< 0.0200 <	0.030 <	0.020 <	0.100	0.019	0.017 <	0.200
	183	80-127	< 0.0200 <	0.030 <	0.020 <	0.100	0.017	0.010 <	0.200
	183	80-189	< 0.0200 <	0.030 <	0.020 <	0.100	0.017 <	0.002 <	0.200
	184	80-112	< 0.0200 <	0.030 <	0.020 <	0.100	0.012 <	0.002 <	0.200
	184	80-168	< 0.0200 <	0.030 <	0.020 <	0.100	0.008 <	0.002 <	0.200
	185	80-157	< 0.0200 <	0.030 <	0.020 <	0.100	0.064 <	0.002 <	0.200
	185	80-183	< 0.0200 <	0.030 <	0.020 <	0.100	0.066 <	0.002 <	0.200
	186	80-155	< 0.0200 <	0.030 <	0.020 <	0.100	0.010	0.007 <	0.200
	186	80-185	< 0.0200 <	0.030 <	0.020 <	0.100	0.008 <	0.002 <	0.200
	187	80-104	< 0.0200 <	0.030 <	0.020 <	0.100	0.010 <	0.002	
	187	80-125	< 0.0200 <	0.030 <	0.020 <	0.100	0.013 <	0.002 <	0.200
	188	80-115		0.220 <	0.020	0.180 <	0.001 <	0.002	0.220
	188	80-129		0.270 <	0.020	0.180 <	0.001 <	0.002	0.270
	189	80-156	< 0.0200 <	0.030 <	0.020 <	0.100 <	0.001 <	0.002 <	0.200
	189	80-170		0.190 <	0.020	0.230 <	0.001	0.020	0.350
	190	80-117	< 0.0200 <	0.030 <	0.020 <	0.100	0.005 <	0.002	0.300
	190	80-151	< 0.0200 <	0.030 <	0.020 <	0.100	0.005 <	0.002	0.230
	191	80-213	< 0.0200	0.940	0.050	0.370	0.014	0.010	0.260
	191	80-236	< 0.0200	0.260	0.020	0.170	0.012 <	0.002	0.250
	192	81-20	0.2600	0.800 <	0.010 <	0.100	0.044	0.005 <	0.200
	192	81-22	0.2600	0.750 <	0.010 <	0.100	0.045 <	0.005 <	0.200
	193	81-16		0.870 <	0.010 <	0.100	0.028	0.010 <	0.200
	193	81-30		0.910 <	0.010 <	0.100	0.030	0.010 <	0.200
	194	81-44		0.810	0.020 <	0.100	0.070	0.020 <	0.200
	194	81-47							
	195	81-141	< 0.0030	0.610 <	0.030 <	0.120	0.005	0.020 <	0.150
	196	81-21	0.2500	0.400 <	0.020 <	0.100	0.020 <	0.020 <	0.200
	196	81-29	0.2000	0.440 <	0.020 <	0.100	0.020 <	0.002 <	0.200
	197	81-91		0.460 <	0.008 <	0.040	0.007 <	0.004	0.050
	197	81-99		0.460 <	0.008 <	0.040	0.007 <	0.004	0.060

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DC-14	198	81-163		0.540 <	0.008 <	0.043	0.007 <	0.004 <	0.040
	198	81-90		0.550 <	0.008 <	0.043	0.007 <	0.004	0.040
	199	81-138	< 0.0010	0.570 <	0.008 <	0.043	0.006 <	0.004	0.130
	199	81-188	< 0.0010	0.570 <	0.008 <	0.043	0.006 <	0.004	0.100
	200	82-42	< 0.0040	0.620 <	0.030 <	0.150	0.004 <	0.010 <	0.340
	200	82-8	< 0.0040	0.610 <	0.030 <	0.150	0.004 <	0.015	0.340
	202	83-156	0.0011	0.620 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	202	83-197	< 0.0040	0.610 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	203	83-152	0.0012	0.640 <	0.030 <	0.150	0.004 <	0.010 <	0.340
	203	83-193	< 0.0040	0.640 <	0.030 <	0.150	0.004 <	0.010 <	0.340
	204	83-157	0.0022	0.640 <	0.030 <	0.150	0.004 <	0.010 <	0.340
	204	83-179	< 0.0040	0.660 <	0.030 <	0.150	0.004	0.050 <	0.340
	205	83-103	< 0.0040	0.610 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	205	83-178	0.0010	0.610 <	0.030 <	0.150	0.003 <	0.010	0.640
	206	83-123	< 0.0040	0.630 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	206	83-183	0.0010	0.630 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	207	83-154	0.0022	0.750 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	207	83-191	< 0.0040	0.750 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	208	83-108	< 0.0040	0.740 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	208	83-150	0.0013	0.740 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	209	83-233	< 0.0040	0.630 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	209	83-266	< 0.0040	0.630 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	210	83-203	< 0.0040	0.620 <	0.030 <	0.150	0.003 <	0.010 <	0.340
	210	83-261	< 0.0040	0.640 <	0.030 <	0.150	0.003 <	0.010 <	0.340
DC-15	211	80-31	<	0.030 <	0.020 <	0.100	0.064	0.110	0.300
	211	80-56	<	0.030 <	0.020 <	0.100	0.065	0.110	0.300
	212	80-54	< 0.0200 <	0.030 <	0.020 <	0.100	0.051	0.020	0.280
	212	80-76	< 0.0200 <	0.030 <	0.020 <	0.100	0.052	0.020	0.200
	213	80-57	<	0.030 <	0.020 <	0.100	0.032	0.080	0.300
	213	80-65	<	0.030 <	0.020 <	0.100	0.034	0.070	0.250
	214	80-87	<	0.030 <	0.020 <	0.100	0.018	0.040 <	0.200
	214	80-94	<	0.030 <	0.020 <	0.100	0.018	0.043 <	0.200
	215	80-137	< 0.0200	0.100 <	0.020 <	0.100	0.003 <	0.002 <	0.200
	215	80-197	< 0.0200 <	0.030 <	0.020 <	0.100	0.003 <	0.002 <	0.200
	216	80-176	< 0.0200 <	0.030 <	0.020 <	0.100	0.002 <	0.002 <	0.200
	216	80-999	< 0.0200	0.140 <	0.020 <	0.100	0.005 <	0.002 <	0.200
	217	80-135	< 0.0200	0.190 <	0.020 <	0.100	0.005 <	0.002 <	0.200
	217	80-149	< 0.0200 <	0.030 <	0.020 <	0.100	0.005 <	0.002 <	0.200
	218	80-120	< 0.0200 <	0.030 <	0.020 <	0.100	0.004 <	0.002 <	0.200
	218	80-139	< 0.0200 <	0.030 <	0.020 <	0.100	0.004 <	0.002 <	0.200
	219	80-108		0.290 <	0.020 <	0.100 <	0.001 <	0.002	0.260
	219	80-131		0.200 <	0.020	0.180 <	0.001 <	0.002 <	0.200
	220	80-114	< 0.0200 <	0.030 <	0.020 <	0.100 <	0.001	0.030 <	0.200
	220	80-193	<	0.030 <	0.020 <	0.100	0.002	0.030	0.280
	221	81-24		0.720	0.010 <	0.100	0.030	0.030 <	0.200
	221	81-41		0.830	0.010 <	0.100	0.030	0.029 <	0.200
	222	81-2	0.0340	0.840 <	0.010 <	0.100	0.028	0.320 <	0.200
	222	81-36	0.3400	0.870 <	0.010 <	0.100	0.030	0.330 <	0.200
	223	81-46		0.830 <	0.010 <	0.100	0.040	0.008	0.440

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DC-15	223	81-50		0.830	0.010 <	0.100	0.040	0.010	0.490
	224	81-32		0.980 <	0.010	0.610	0.030	0.010 <	0.200
	224	81-33		0.990	0.010 <	0.100	0.030 <	0.005 <	0.200
	225	81-27	< 0.0010	0.600 <	0.020 <	0.100	0.008 <	0.002 <	0.200
	225	81-74	< 0.0010	0.590 <	0.008 <	0.043	0.008 <	0.004	0.100
	226	81-64		1.220 <	0.020 <	0.100	0.024 <	0.015 <	0.200
	226	81-80	0.1300	1.080 <	0.020 <	0.100	0.023 <	0.002 <	0.200
	227	81-85	0.2470	1.130 <	0.020 <	1.000	0.010	0.010 <	0.200
	227	81-96	0.2160	0.980 <	0.020 <	0.100	0.011	0.040 <	0.200
	228	81-69	< 0.1000	1.070 <	0.020 <	0.100	0.011	0.010 <	0.200
	228	81-84	< 0.1000	1.000 <	0.020 <	0.100	0.010	0.010 <	0.200
	229	82-41	< 0.0030	0.470 <	0.026 <	0.150	0.012 <	0.015 <	0.340
	229	82-94		0.470 <	0.026 <	0.160	0.012 <	0.015 <	0.340
DC-16A	230	81-109	0.0180 <	0.020 <	0.030 <	0.160	0.061 <	0.020 <	0.340
	230	81-167	0.0160 <	0.020 <	0.030 <	0.160	0.064 <	0.020 <	0.340
	231	82-17	<	0.020 <	0.030 <	0.160	0.042 <	0.020 <	0.340
	231	82-55	0.0290 <	0.020 <	0.030 <	0.160	0.042 <	0.020 <	0.340
	232	82-45	<	0.020 <	0.030 <	0.150	0.044 <	0.010 <	0.340
	232	82-93	<	0.020 <	0.030 <	0.150	0.043 <	0.010 <	0.340
	233	82-19	< 0.0030	0.150 <	0.020 <	0.150	0.015 <	0.010 <	0.340
	233	82-88	< 0.0030	0.150 <	0.020 <	0.150	0.015 <	0.010 <	0.340
	234	82-140		0.200 <	0.020 <	0.150	0.011 <	0.010 <	0.340
	234	82-188		0.200 <	0.020 <	0.150	0.011 <	0.010 <	0.340
	235	82-124		0.100 <	0.020 <	0.150	0.011 <	0.010 <	0.340
	235	82-172		0.110 <	0.020 <	0.150	0.011 <	0.010 <	0.340
	236	82-126	< 0.0030	0.130 <	0.020 <	0.150	0.017 <	0.010 <	0.340
	236	82-143	< 0.0030	0.140 <	0.020 <	0.150	0.017 <	0.010 <	0.340
	237	82-202		0.040 <	0.020 <	0.150	0.014 <	0.010 <	0.340
	237	82-228	0.0810	0.040 <	0.020 <	0.150	0.015 <	0.010 <	0.340
	239	82-322	< 0.0030	0.180 <	0.020 <	0.150	0.019 <	0.010	0.500
	239	82-361	< 0.0030	0.160 <	0.020 <	0.150	0.018 <	0.010	0.500
	240	82-332		0.150 <	0.020 <	0.150	0.017 <	0.010	0.460
	240	82-358	0.1400	0.150 <	0.020 <	0.150	0.017 <	0.010	0.490
	242	82-430		0.250 <	0.020 <	0.150	0.017 <	0.010	0.500
	242	82-473		0.250 <	0.020 <	0.150	0.017 <	0.010	0.470
	243	83-29	0.0070	0.240 <	0.030 <	0.150	0.017 <	0.010 <	0.340
	243	83-41	0.0080	0.024 <	0.030 <	0.150	0.017 <	0.010 <	0.340
DC-16B	244	83-147	0.0440	0.030 <	0.030 <	0.150	0.030 <	0.010	0.410
	244	83-185	0.0470	0.020 <	0.030 <	0.150	0.030 <	0.010	0.350
DC-16C	245	83-100	0.0920	0.390 <	0.030 <	0.150	0.003 <	0.010	2.000
	245	83-30	0.0870	0.380 <	0.030 <	0.150	0.003 <	0.010	2.100
	246	83-215		0.190 <	0.030 <	0.150	0.005 <	0.010 <	0.340
	246	83-259		0.180 <	0.030 <	0.150	0.005 <	0.010 <	0.340
DC-19C	247	84-53	0.0220	0.290 <	0.020 <	0.150	0.006	0.020	0.440
	247	84-84	0.0210	0.300 <	0.020 <	0.150	0.006	0.020	0.410
	248	84-40	0.0180	0.260 <	0.020 <	0.150	0.008	0.160	0.470

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
DC-19C	248	84-77	0.0190	0.260 <	0.020 <	0.150	0.008	0.160	0.430
	249	84-29	0.0470	0.310 <	0.030 <	0.150	0.009	1.340 <	0.340
	249	84-75	0.0480	0.300 <	0.030 <	0.150	0.009	1.490 <	0.340
	250	84-18		0.310 <	0.030 <	0.150	0.020	0.020 <	0.340
	250	84-86	0.0440	0.290 <	0.030 <	0.150	0.017 <	0.010 <	0.340
DC-20C	251	84-49	0.0300	0.240 <	0.020 <	0.150	0.005	0.040	0.350
	251	84-9	0.0300	0.240 <	0.020 <	0.150	0.005	0.040	0.400
DC-22C	252	84-105	< 0.0040	0.120 <	0.020 <	0.150	0.006 <	0.010 <	0.340
	252	84-153	< 0.0040	0.120 <	0.020 <	0.150	0.006 <	0.010 <	0.340
ENYEART	253	SITE-209							
	254	SITE-210	< 0.0200						0.010
	255	84-166	0.0570 <	0.020 <	0.026 <	0.150	0.065 <	0.015 <	0.340
	255	84-184	0.0570 <	0.020 <	0.026 <	0.150	0.065 <	0.015 <	0.340
FORD	257	SITE-206							
	258	SITE-207	0.1000	<	0.050	<	0.050 <	0.010	
MCQEE	265	82-82	0.0560 <	0.020 <	0.020 <	0.150	0.059 <	0.010 <	0.340
	265	82-7	0.0540 <	0.020 <	0.020 <	0.150	0.057 <	0.010 <	0.340
	266	80-64	<	0.030 <	0.020 <	0.100	0.062 <	0.002 <	0.200
	266	80-88	<	0.030 <	0.020 <	0.100	0.062 <	0.002 <	0.200
	267	81-73	0.2900	0.110 <	0.020 <	0.100	0.064 <	0.002 <	0.200
	267	81-79	0.3600 <	0.030 <	0.020 <	0.100	0.065 <	0.002 <	0.200
	268	81-54	0.4030 <	0.020 <	0.020 <	0.100	0.065 <	0.015 <	0.200
	268	81-56	0.5050	0.310 <	0.020 <	0.100	0.064 <	0.015 <	0.200
	269	82-11	0.0580 <	0.020 <	0.020 <	0.150	0.062 <	0.010 <	0.340
	269	82-64	<	0.020 <	0.020 <	0.150	0.062 <	0.010 <	0.340
	270	82-105	<	0.020 <	0.020 <	0.150	0.062	0.150 <	0.340
	270	82-164	<	0.020 <	0.020 <	0.150	0.063	0.110 <	0.340
	270	82-183	<	0.020 <	0.020 <	0.150	0.062	0.190 <	0.340
	271	82-263	0.0480 <	0.010 <	0.020 <	0.150	0.058 <	0.010 <	0.340
	271	82-283	<	0.010 <	0.020 <	0.150	0.057 <	0.010 <	0.340
	272	82-325	0.0480 <	0.020 <	0.020 <	0.150	0.061 <	0.010 <	0.340
	272	82-397	<	0.020 <	0.020 <	0.150	0.061 <	0.010 <	0.340
	273	82-424	<	0.020 <	0.020	0.170	0.061 <	0.010 <	0.340
	273	82-474	<	0.020 <	0.020 <	0.150	0.062 <	0.010 <	0.340
	274	82-436	0.0450 <	0.020 <	0.020	0.200	0.060 <	0.010 <	0.340
	274	82-498	0.0460 <	0.020 <	0.020	0.200	0.062 <	0.010 <	0.340
	275	83-32	0.0620 <	0.020 <	0.030 <	0.150	0.060 <	0.010 <	0.340
	275	83-63	0.0640 <	0.020 <	0.030 <	0.150	0.060 <	0.010 <	0.340
	276	83-27	0.0460 <	0.020 <	0.030 <	0.150	0.063 <	0.010 <	0.340
	276	83-63	0.0460 <	0.020 <	0.030 <	0.150	0.064 <	0.010 <	0.340
	277	83-113	0.0420 <	0.020 <	0.030 <	0.150	0.054 <	0.010 <	0.340
	277	83-188	0.0440 <	0.020 <	0.030 <	0.150	0.054 <	0.010 <	0.340
	278	83-323	< 0.0040 <	0.020 <	0.030 <	0.150	0.016 <	0.010 <	0.340
	278	83-373	< 0.0040 <	0.020 <	0.030 <	0.150	0.016 <	0.010 <	0.340
	279	83-331	< 0.0040 <	0.020 <	0.030 <	0.150 <	0.003 <	0.010 <	0.340

TRACE ELEMENTS FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
MCGEE	279	83-344	< 0.0040	< 0.020	< 0.030	< 0.150	0.002	< 0.010	< 0.340
	280	83-460	< 0.0040	< 0.020	< 0.030	< 0.150	0.002	< 0.010	< 0.340
	280	83-474	< 0.0040	< 0.020	< 0.030	< 0.150	0.001	< 0.010	< 0.340
	281	83-417	<	0.020	< 0.030	< 0.150	0.003	< 0.010	< 0.340
	281	83-476	< 0.0040	< 0.020	< 0.030	< 0.150	< 0.003	< 0.010	< 0.340
	282	83-513	< 0.0040	0.050	< 0.030	< 0.150	0.004	< 0.010	< 0.340
	282	83-545		0.060	< 0.030	< 0.150	0.004	< 0.010	< 0.340
	283	84-24		0.030	< 0.030	< 0.150	0.003	< 0.010	
	283	84-38	0.0050	0.040	< 0.030	< 0.150	0.003	< 0.010	
RRL-02	284	82-28	0.0810	0.100	< 0.030	< 0.150	0.009	0.050	0.420
	284	82-68	0.0850	0.100	< 0.030	< 0.150	0.009	0.050	0.420
	285	82-65	0.0110	0.120	< 0.020	< 0.150	0.005	0.020	< 0.340
	285	82-75		0.110	< 0.020	< 0.150	0.005	< 0.010	< 0.340
	286	82-163		0.050	< 0.020	< 0.150	0.040	< 0.010	< 0.340
	286	82-170		0.050	< 0.020	< 0.150	0.040	< 0.010	< 0.340
	287	82-122		0.130	< 0.020	< 0.150	0.010	< 0.010	3.500
	287	82-192		0.130	< 0.020	< 0.150	0.010	< 0.010	3.200
	288	82-401		0.280	< 0.020	< 0.150	0.009	< 0.010	1.300
	288	82-479		0.270	< 0.020	< 0.150	0.009	< 0.010	< 0.340
	289	84-43	< 0.0035	0.290	< 0.026	< 0.150	0.015	< 0.015	
	289	84-7	< 0.0035	0.290	< 0.020	< 0.150	0.015	< 0.010	< 0.340
	290	82-364	< 0.0030	0.270	< 0.020	< 0.150	0.005	< 0.010	< 0.340
	290	82-381	< 0.0030	0.280	< 0.020	< 0.150	0.006	0.020	< 0.340
	291	82-309		0.240	< 0.020	< 0.150	0.011	0.020	< 0.340
	291	82-351		0.240	< 0.020	< 0.150	0.011	0.020	< 0.340
	292	82-413	< 0.0040	0.260	< 0.020	< 0.150	0.011	< 0.010	< 0.340
	292	82-456	< 0.0040	0.260	< 0.020	< 0.150	0.010	< 0.010	< 0.340
RRL-14	294	82-403	< 0.0040	0.180	< 0.020	< 0.150	0.009	< 0.010	0.500
	294	82-489		0.180	< 0.020	0.170	0.010	0.030	0.500
B11-E12A	298	80-61	<	0.030	< 0.020	< 0.100	0.115	0.010	0.200
	298	80-7	<	0.030	< 0.020	< 0.100	0.118	0.010	0.200
	299	80-138	<	0.030	< 0.020	< 0.100	0.092	< 0.002	0.260
	299	80-180	<	0.030	< 0.020	< 0.100	0.100	< 0.002	0.200

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	GR	ZN	P
199-B4-4	300	SITE-41		0.002	0.002		0.220	0.009	
199-D5-12	301	SITE-80		0.010 <	0.050	1.000	0.300 <	0.005	0.030
199-D8-3	302	SITE-72		0.010 <	0.050 <	0.030	0.300 <	0.005	
199-F5-1	303	SITE-82		0.010 <	0.050	0.700	0.100 <	0.005	0.020
199-H4-3	304	SITE-81		0.010 <	0.050	1.000	0.300 <	0.005	0.080
199-K-19	305	SITE-83	< 0.0010 <	0.010 <	0.050	0.500	0.100	0.010	0.010
199-N-15	306	SITE-42			0.003	0.002	0.140	0.008	
299-E26-8	307	SITE-165	0.1140	<	0.003 <	0.017		0.093	
299-E33-12	308	SITE-169		<	0.052 <	0.024		0.180	
399-1-3	309	SITE-43		0.025	0.002		0.140	0.020	
399-4-10	310	SITE-44		0.006	0.003	0.002	0.160	0.010	
399-8-4	311	SITE-140	0.0030 <	0.010 <	0.050 <	0.030	0.300	0.100	0.030
699-1-18	312	SITE-145	0.0030	0.010 <	0.050	0.050	0.300	0.010	0.030
699-10-E12	313	SITE-147	0.0010	0.010 <	0.050 <	0.030	0.100	0.100	0.010
699-11-45A	314	SITE-148	0.1000 <	0.010 <	0.050 <	0.030	0.100	0.700	0.010
699-13-1A	315	SITE-60		0.010 <	0.050 <	0.030	0.300 <	0.005	
699-14-38	316	SITE-61		0.010 <	0.050	0.030	0.100 <	0.005	
	317	SITE-86		0.010 <	0.050	1.000	0.100 <	0.005	0.030
699-15-15B	318	SITE-13		0.003 <	0.002	0.003	0.200	0.100	0.050
	319	SITE-149	0.0070 <	0.010 <	0.050 <	0.030	0.300	0.030	0.020
699-15-26	320	SITE-24		0.020	0.006	0.006	0.200		
	321	SITE-150	< 0.0010	0.010 <	0.050 <	0.030	0.300 <	0.009	0.020
699-17-5	322	SITE-18	<	0.001	0.005	0.010	0.190	0.050	0.070
	323	SITE-151	0.0010	0.010 <	0.050 <	0.030	0.100	0.010	0.010
699-19-43	324	SITE-48		0.003	0.002		0.240	0.230	
	325	SITE-121	0.0010 <	0.010 <	0.050	0.300	0.300	0.700	0.030
699-2-3	326	SITE-1	< 0.0010	0.005 <	0.002	0.010	0.200	0.010	0.020
699-2-33	327	SITE-85	<	0.010 <	0.050	1.000	0.100 <	0.005	0.070

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
699-2-33	328	SITE-146	0.0100	0.010 <	0.050	0.030	0.100 <	0.009	0.020
699-20-20	329	SITE-25		0.006	0.007	0.007	0.220	0.030	
699-20-E5-0	330	SITE-49		0.002	0.002		0.200	0.008	
699-24-33	331	SITE-28		0.030	0.007	0.007	0.210		
699-24-46	332	SITE-122	0.0700	0.010 <	0.050	1.000	0.100 <	0.005	0.010
699-25-55	333	SITE-100	0.0070	0.030	0.100	0.700	0.100	0.010	0.040
699-26-15	334	SITE-26		0.010	0.007	0.007	0.230		
699-27-4	335	SITE-101	0.0100	0.010	0.070	0.500	0.300 <	0.005	0.020
699-27-8	336	SITE-5		0.002 <	0.002	0.004	0.250	0.120	0.020
	337	SITE-30		0.004	0.007	0.007	0.240	0.060	
	338	SITE-50		0.001	0.002	0.002	0.280	0.060	
	339	SITE-76	<	0.010 <	0.050 <	0.030	0.300	0.030	
	340	SITE-87	<	0.010 <	0.050	1.000	0.300	0.030	0.020
699-28-40	341	SITE-68		0.030 <	0.050 <	0.030	0.300 <	0.005	
699-31-31	342	SITE-69		0.030 <	0.050 <	0.030	0.300	0.005	
	343	SITE-102	0.0050	0.030	0.070	0.700	0.300 <	0.005	0.030
699-31-53B	344	SITE-88	0.0010	0.030 <	0.050	1.000	0.100	0.100	0.030
699-32-22	345	SITE-17		0.003	0.003	0.004	0.270	0.012	0.040
	346	SITE-27		0.010	0.007	0.007	0.260	0.010	
	347	SITE-51		0.003	0.003	0.002	0.290	0.020	
	348	SITE-65		0.010 <	0.050 <	0.030	0.300 <	0.005	0.040
	349	SITE-89		0.010 <	0.050	1.000	0.300 <	0.005	0.020
699-32-70	350	SITE-70		0.030 <	0.050 <	0.030	0.100	0.005	
	351	SITE-90		0.010 <	0.050	1.000	0.100 <	0.005	0.380
	352	SITE-152	0.0010	0.010 <	0.050 <	0.030	0.300	0.010	0.050
699-32-72	353	SITE-35		0.010	0.005	0.005	0.110	0.020	
699-32-77	354	SITE-103	0.0030	0.030 <	0.050	0.700	0.100 <	0.005	0.060
699-33-42	355	SITE-12		0.007	0.050	0.010	0.200	0.020	0.030
	356	SITE-29		0.020	0.006	0.006	0.170	0.010	
	357	SITE-52		0.009	0.002			0.010	
	358	SITE-67		0.010 <	0.050 <	0.030	0.100 <	0.005	
	359	SITE-91	<	0.010 <	0.050	1.000	0.100 <	0.005	0.020
699-33-56	360	SITE-8		0.008	0.003	0.030	0.180	0.400	0.020

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
699-33-56	361	SITE-40		0.030	0.007	0.007	0.170	0.110	
	362	SITE-53		0.012	0.002		0.240	0.210	
	363	SITE-62		0.030 <	0.050 <	0.030	0.300 <	0.005	
	364	SITE-92		0.030 <	0.050	1.000	0.300	0.100	0.030
699-34-39A	365	SITE-93		0.010 <	0.050	1.000	0.100 <	0.005	0.030
699-34-42	366	SITE-33		0.030	0.007	0.007	0.170	0.020	
	367	SITE-153	0.0010	0.010 <	0.050	0.030	0.100 <	0.009	0.030
699-34-51	368	SITE-66		0.010 <	0.050	0.030	0.300 <	0.005	
699-35-66	369	SITE-77		0.010 <	0.050 <	0.030	0.100 <	0.005	
	370	SITE-94		0.030 <	0.050	1.000	0.300 <	0.005	0.040
699-35-70	371	SITE-36		0.030	0.008	0.008	0.220	0.040	
699-35-78	372	SITE-54		0.007	0.002		0.100	0.008	
699-35-9	373	SITE-31		0.010	0.005	0.006	0.210	0.030	
	374	SITE-104	0.0030	0.030	0.070	0.500	0.300 <	0.005	0.020
699-36-61A	375	SITE-95		0.010 <	0.050	1.000	0.100 <	0.005	0.030
699-37-43	376	SITE-34		0.030	0.006	0.006	0.210	0.020	
	377	SITE-173	0.0830	<	0.003 <	0.017		0.084	
699-37-82A	378	SITE-105	< 0.0010	0.010 <	0.050	0.300	0.300 <	0.005	0.010
699-38-70	379	SITE-37		0.005	0.010	0.010	0.380	0.020	
699-4-E6	380	SITE-47		0.006				0.010	
699-40-1	381	SITE-10		0.002	0.002	0.004	0.220	0.010	0.070
	382	SITE-106	0.0030	0.010 <	0.050	0.500	0.300 <	0.005	0.030
699-40-33	383	SITE-55		0.003	0.003		0.160	0.010	
699-40-62	384	SITE-56		0.007	0.003		0.210	0.006	
699-41-23	385	SITE-15		0.007	0.003 <	0.002	0.260	0.030	0.030
	386	SITE-113	0.0050	0.030	0.070	0.700	0.300	0.010	0.030
699-42-12	387	SITE-2		0.005 <	0.002	0.002	0.260	0.010	0.010
	388	SITE-155	0.0070 <	0.010 <	0.050 <	0.030	0.300	0.010	0.020
699-42-2	389	SITE-184	0.0010 <	0.010 <	0.050 <	0.030	1.000 <	0.009	0.020
699-42-40A	390	SITE-174	0.0143	<	0.003 <	0.009		0.095	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
699-42-40C	391	SITE-175							
699-42-42	392	SITE-114	0.0030	0.010	0.070	0.700	0.300 <	0.005	0.020
699-43-88	393	SITE-123	0.0300	0.010 <	0.050	0.300	0.100 <	0.005	0.010
699-45-42	394	SITE-57		0.007	0.002	0.002	0.210	0.003	
699-45-69	395	SITE-96	<	0.010 <	0.050	1.000	0.300 <	0.005	0.010
699-46-21	396	SITE-75		0.010 <	0.050 <	0.030	0.300 <	0.005	
	397	SITE-124	0.0070	0.030	0.070	0.500	0.300 <	0.005	0.010
699-46-5	398	SITE-156	0.0010	0.030 <	0.050	0.050	0.300 <	0.009	0.020
699-47-55A	399	SITE-182							
699-48-18	400	SITE-125	0.0300 <	0.010 <	0.050	0.300	0.300	0.010	0.030
699-48-71	401	SITE-59		0.007	0.003		0.170	0.008	
699-49-55	402	SITE-9		0.013 <	0.003 <	0.003	0.250 <	0.008	0.080
	403	SITE-39		0.055	0.008	0.008	0.270		
	404	SITE-58		0.018	0.004		0.320	0.010	
	405	SITE-78		0.030 <	0.050 <	0.030	0.300 <	0.005	
	406	SITE-97		0.030 <	0.050	1.000	0.300 <	0.005	0.010
	407	SITE-126	0.0030	0.050	0.070	0.300	0.300 <	0.005	
	408	SITE-157	0.0100	0.030 <	0.050	0.030	0.300 <	0.009	0.020
699-49-57	409	SITE-38		0.020	0.010	0.010	0.390	0.070	
699-49-79	410	SITE-20		0.002	0.003	0.007	0.150	0.045	0.040
699-50-288	411	SITE-63	0.0110	0.030 <	0.050 <	0.030	0.300	0.300	
699-50-42	412	SITE-14		0.005	0.003	0.005	0.190	0.100	0.030
	413	SITE-115	0.0500	0.030	0.070	0.300	0.100 <	0.005	
699-50-8	414	SITE-64		0.012 <	0.050 <	0.030	0.300 <	0.005	
699-50-85	415	SITE-127	0.0050	0.030	0.100	0.500	0.100	0.007	0.020
699-51-63	416	SITE-116	0.0030	0.030	0.070	0.500	0.100 <	0.005	0.040
699-53-103	417	SITE-160	0.0600	0 000	0.002	0.000	90.000	0.003	
699-55-50C	418	SITE-79	<	0.010 <	0.050 <	0.030	0.100 <	0.005	
	419	SITE-128	0.0030	0.030	0.070	0.300	0.100 <	0.005	0.040
	420	SITE-193	< 0.0011	<	0.003 <	0.023		0.101	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
699-55-76	421	SITE-71		0.010 <	0.050 <	0.030	0.100	0.005	
	422	SITE-117	0.0100	0.030	0.050	0.300	0.100 <	0.005	0.010
	423	SITE-129	0.0700	0.010 <	0.050	0.100	0.100 <	0.005	
699-55-89	424	SITE-118	0.0070	0.010 <	0.050	0.700	0.100 <	0.005	0.010
699-56-53	425	SITE-194							
	426	SITE-195							
699-57-25A	427	SITE-119	0.0300	0.050	0.050	0.700	0.100 <	0.005	0.050
699-57-83	428	SITE-130	0.0050	0.030	0.070	0.500	0.100	0.010	0.010
699-59-58	429	SITE-107	0.0010	0.030	0.050	0.700	0.100 <	0.005	0.050
699-60-57	430	SITE-198	0.0795	<	0.003 <	0.009		0.096	
699-62-31	431	SITE-131	0.1000	0.030	0.070	0.500	0.100	3.000	0.010
699-63-25A	432	SITE-132	0.0010 <	0.010 <	0.050	0.500	0.500	0.007	0.050
699-63-90	433	SITE-74		0.010 <	0.050 <	0.030	0.100 <	0.005	
	434	SITE-133	0.0030	0.030	0.100	0.500	0.100	0.007	0.010
699-64-27	435	SITE-158	0.0070	0.010 <	0.050	0.030	0.700	0.010	0.030
699-65-50	436	SITE-73		0.010 <	0.050 <	0.030	0.100	0.005	
	437	SITE-134	0.0030	0.050	0.100	0.500	0.100	0.010	0.050
699-66-39	438	SITE-135	0.0030	0.050	0.070	0.100	0.100 <	0.005	
699-66-58	439	SITE-136	0.0030	0.030	0.070	0.500	0.100	0.100	0.040
699-66-64	440	SITE-137	0.0030	0.030	0.100	0.500	0.100	0.100	0.030
699-69-38	441	SITE-6		0.005 <	0.003	0.010	0.400	0.050	1.500
699-71-30	442	SITE-108	0.0030	0.010	0.050 <	0.030	0.500 <	0.005	0.050
699-71-52	443	SITE-138	0.0030 <	0.010 <	0.050	0.300	0.100 <	0.005	0.010
699-72-73	444	SITE-109	0.0100	0.030	0.100	0.700	0.100	0.010	0.040
699-72-88	445	SITE-98	<	0.010 <	0.050	1.000	0.100 <	0.005	0.050
699-77-36	446	SITE-110	< 0.0010	0.010 <	0.050	0.500	0.700 <	0.005	0.040
699-78-62	447	SITE-111	0.0030	0.010 <	0.050	0.500	0.300	0.070	0.050
699-8-17	448	SITE-23		0.010	0.005	0.006	0.200	0.120	

TRACE ELEMENTS FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
699-8-25	449	BITE-32		0.010	0.006	0.006	0.190		
699-8-32	450	BITE-19		0.007	0.003	0.002	0.190	0.010	0.090
699-81-58	451	BITE-159	0.0030	0.010 <	0.050 <	0.030	0.100 <	0.009 <	0.010
699-83-47	452	BITE-112	0.0030	0.030 <	0.050	0.500	0.300 <	0.005	0.030
699-87-55	453	BITE-99	< 0.0010	0.030 <	0.050	1.000	0.300 <	0.005	0.020
699-9-E2	454	BITE-16		0.007	0.002	0.005	0.190	0.017	0.040
699-90-45	455	BITE-139	0.5000	0.030	0.050	0.500	0.300	0.030	0.030
699-HANFORD-19	456	BITE-3							
699-811-E12A	457	BITE-4		0.002 <	0.002	0.017	0.180	0.030	0.050
699-812-3	458	BITE-45		0.004	0.003		0.210	0.070	
	459	BITE-143	0.0010 <	0.010 <	0.050 <	0.030	0.100 <	0.009	0.040
699-819-E13	460	BITE-120	0.0050	0.010 <	0.050	0.500	0.300 <	0.005	0.040
699-829-E12	461	BITE-21		0.006	0.006	0.007	0.200	0.010	
699-83-25	462	BITE-7		0.008	0.004	0.030	0.160	0.030	0.060
	463	BITE-142	0.1000	0.010 <	0.050	0.030	0.300	0.010	0.030
699-83-E12	464	BITE-22		0.020	0.004	0.003	0.130		
	465	BITE-141	0.0030	0.040 <	0.050 <	0.030	0.100 <	0.009	0.010
699-830-E15A	466	BITE-144	0.0010 <	0.010 <	0.050 <	0.030	0.300 <	0.009	0.030
699-86-E4D	467	BITE-11		0.005	0.005	0.004	0.220	1.600	0.020
699-88-19	468	BITE-46		0.005	0.002		0.210	0.008	
	469	BITE-84		0.010 <	0.050	1.000	0.100 <	0.005	0.040
RRL-06A	470	B2-35	<	0.020 <	0.030 <	0.160	0.160	0.450 <	0.340
	470	B2-40	<	0.020 <	0.030 <	0.160	0.160	0.440 <	0.340

TRACE ELEMENTS FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SN	ZN	P
BENNETT SPRING	472	79-13	< 0.0200	< 0.030	< 0.020	< 0.100	0.105	< 0.010	< 0.200
BUTLER SPRING	474	79-1	0.0550	0.320	0.028	0.330	0.140	0.049	0.570
	474	79-50	0.0540	0.300	0.030	0.320	0.140	0.049	0.590
GULCH SPRING	475	84-359	< 0.0030	< 0.020	< 0.026	< 0.150	0.229	0.058	< 0.340
	475	84-383	< 0.0030	< 0.020	< 0.026	< 0.150	0.227	0.061	< 0.340
JUNIPER SPRING	477	79-2	< 0.0200	< 0.030	< 0.020	< 0.100	0.083	< 0.010	< 0.200
	477	79-43	< 0.0200	< 0.030	< 0.020	< 0.100	0.079	< 0.010	< 0.200
	478	81-115		0.001	< 0.008	< 0.043	0.080	< 0.004	0.100
	478	81-161	<	0.005	< 0.008	< 0.043	0.080	< 0.004	0.070
	479	83-305	0.0040	< 0.020	< 0.030	< 0.150	0.080	0.130	< 0.340
	479	83-372	< 0.0040	< 0.020	< 0.030	< 0.150	0.080	< 0.010	< 0.340
LOWER SNIVELY SPRING	480	79-19	< 0.0200	< 0.030	< 0.020	< 0.100	0.082	< 0.010	< 0.200
	480	79-34	< 0.0200	0.040	< 0.020	< 0.100	0.900	< 0.010	< 0.200
	481	82-362	< 0.0030	< 0.020	< 0.020	< 0.150	0.089	< 0.010	< 0.340
	481	82-377	< 0.0030	< 0.020	< 0.020	< 0.150	0.088	< 0.010	< 0.340
	482	82-311	< 0.0040	< 0.020	< 0.030	< 0.150	0.090	< 0.010	< 0.340
	482	83-396	< 0.0040	< 0.020	< 0.030	< 0.150	0.090	< 0.010	< 0.340
LOZIER SPRING	483	79-44	< 0.0200	< 0.030	< 0.020	0.200	0.084	< 0.010	0.200
	483	79-6	< 0.0200	< 0.030	< 0.020	0.300	0.083	< 0.010	0.200
	484	81-116	<	0.005	< 0.008	< 0.043	0.090	0.004	0.110
	484	81-186	< 0.0010	< 0.005	< 0.008	< 0.043	0.090	< 0.004	0.080
	485	83-316	< 0.0040	< 0.020	< 0.030	< 0.150	0.090	< 0.010	< 0.340
	485	83-343	< 0.0040	< 0.020	< 0.030	< 0.150	0.090	< 0.010	< 0.340
MAIDEN SPRING	486	79-67	< 0.0200	< 0.030	< 0.020	< 0.100	0.073	< 0.010	< 0.200
	486	79-96	< 0.0200	< 0.030	< 0.020	< 0.100	0.072	< 0.010	< 0.200
	487	83-420	< 0.0040	< 0.020	< 0.030	< 0.150	0.070	< 0.010	< 0.340
	487	83-435	< 0.0040	< 0.020	< 0.030	< 0.150	0.070	< 0.010	< 0.340
OBSERVATORY SPRING	488	84-310	< 0.0040	< 0.020	< 0.026	< 0.150	0.067	< 0.015	< 0.340
	488	84-392	< 0.0040	< 0.020	< 0.026	< 0.150	0.068	< 0.015	< 0.340
	489	84-329	< 0.0030	< 0.038	< 0.017	< 0.200	0.064	< 0.200	< 0.540
	489	84-366	< 0.0030	< 0.038	< 0.017	< 0.200	0.063	< 0.020	< 0.540
	490	81-119	< 0.0010	0.002	< 0.008	< 0.043	0.070	0.007	0.150
	490	81-157	<	0.002	< 0.008	< 0.043	0.070	0.010	0.500
	491	83-433	< 0.0040	< 0.020	< 0.030	< 0.150	0.070	< 0.010	< 0.340
	491	83-461	< 0.0040	0.020	< 0.030	< 0.150	0.070	< 0.010	< 0.340
RAILROAD SPRING	492	79-76	< 0.0200	< 0.030	< 0.020	< 0.100	0.056	< 0.010	< 0.200
	492	79-81	< 0.0200	< 0.030	< 0.020	< 0.100	0.051	< 0.010	< 0.200
RATTLESNAKE SPRING	493	SITE-216							
	494	79-87	1.0800	< 0.030	< 0.020	< 0.100	0.206	< 0.010	< 0.200
	494	79-88	1.0500	< 0.030	< 0.020	< 0.100	0.201	< 0.010	< 0.200
	495	83-412	0.2000	< 0.020	< 0.030	< 0.150	0.190	< 0.010	< 0.340

TRACE ELEMENTS FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
RATTLESNAKE SPRING	495	83-466	0.2000 <	0.020 <	0.030 <	0.150	0.190 <	0.010 <	0.340
SNIVELY SPRING	496	79-37	< 0.0200 <	0.030 <	0.020 <	0.100	0.083 <	0.010 <	0.200
	496	79-49	< 0.0200	0.030 <	0.020 <	0.100	0.082	0.210 <	0.200
SULPHUR SPRINGS	497	79-29	< 0.0200 <	0.030 <	0.020 <	0.100	0.143 <	0.010 <	0.200
	497	79-36	< 0.0200 <	0.030 <	0.020 <	0.100	0.143 <	0.010 <	0.200
	498	83-409	0.0100 <	0.020 <	0.030 <	0.150	0.100 <	0.010 <	0.340
	498	83-442	0.0100 <	0.020 <	0.030 <	0.150	0.100 <	0.010 <	0.340
UNNAMED SPRING #02	499	79-75	< 0.0200	0.190 <	0.020	0.210	0.060	0.250	0.360
UNNAMED SPRING #16	500	79-73		0.054 <	0.020 <	0.100	0.090	0.020 <	0.200
	500	79-82		0.020 <	0.020 <	0.100	0.090	0.010	0.330
UNNAMED SPRING #26	501	79-54	<	0.030 <	0.020 <	0.100	0.108	0.020 <	0.200
	501	79-98	<	0.030 <	0.020 <	0.100	0.107 <	0.010 <	0.200
UNNAMED SPRING #29	502	79-16	< 0.0200	0.120 <	0.020	0.130	0.120 <	0.010	0.310
	502	79-24	< 0.0200	0.124 <	0.020	0.133	0.120 <	0.010	0.340
UPPER SNIVELY SPRING	503	79-69	< 0.0200	0.220	0.020	0.160	0.080	0.010	0.460
	503	79-71	< 0.0200	0.290 <	0.020	0.180	0.082	0.010	0.480
	504	81-126	0.0050 <	0.020 <	0.020 <	0.150	0.090 <	0.020 <	0.200
	504	81-200	<	0.020 <	0.020 <	0.150	0.080 <	0.020 <	0.200
	505	83-503	< 0.0040 <	0.020 <	0.030 <	0.150	0.090	0.020 <	0.340
	505	83-547	< 0.0040 <	0.020 <	0.030 <	0.150	0.090	0.020 <	0.340
WARM SPRING	506	84-358	0.0037 <	0.020 <	0.026 <	0.150	0.080 <	0.150 <	0.340
	506	84-371	0.0035 <	0.020 <	0.026 <	0.150	0.080 <	0.150 <	0.340

TRACE ELEMENTS FOR SURFACE

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
COL RIV @ VERNITA BR	508	84-330	< 0.0030	< 0.038	< 0.017	< 0.200	0.076	< 0.020	< 0.540
	508	84-361	< 0.0030	< 0.038	< 0.017	< 0.200	0.075	< 0.020	< 0.540
	509	84-311	< 0.0030	< 0.038	< 0.017	< 0.200	0.076	< 0.020	< 0.540
	509	84-356	< 0.0030	< 0.038	< 0.017	< 0.200	0.077	< 0.020	< 0.540
COL RIVER @ DC-14	510	83-211	0.0040	< 0.020	< 0.030	< 0.150	0.102	< 0.040	< 0.340
	510	83-258	< 0.0040	< 0.020	< 0.030	< 0.150	0.100	0.030	< 0.340
COLD CREEK	513	84-317	0.0030	< 0.038	< 0.017	< 0.200	0.104	< 0.020	0.540
	513	84-336	0.0040	< 0.038	< 0.017	< 0.200	0.105	< 0.020	0.540
	514	84-302	< 0.0030	< 0.038	< 0.017	< 0.200	0.102	< 0.020	< 0.540
	514	84-345	< 0.0030	< 0.038	< 0.017	< 0.200	0.102	< 0.020	< 0.540

SD-SWM-DP-051 REV.0

TRACE ELEMENTS FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	MN	MO	NI	PB	SR	ZN	P
STATION 03	516	82-51	0.0059 <	0.020 <	0.026 <	0.155	0.001	5.840 <	0.340
STATION 04	530	82-61	0.0236 <	0.020 <	0.026 <	0.155	0.002	13.756 <	0.340
STATION 07	546	82-92	0.0055 <	0.020 <	0.026 <	0.155	0.001	8.231 <	0.340
STATION 14	560	82-20	0.0069 <	0.020 <	0.026 <	0.155	0.001	10.434 <	0.340
STATION 17	576	82-70	0.0104 <	0.020 <	0.026 <	0.155	0.000	6.598 <	0.340
STATION 20	593	82-58	0.0089 <	0.020 <	0.026 <	0.155 <	0.000	8.638 <	0.340
	594	82-74	0.0035 <	0.020 <	0.026 <	0.155 <	0.000	7.673 <	0.340
STATION 25	609	82-83	0.0075 <	0.020 <	0.026 <	0.155	0.001	7.416 <	0.340
	610	82-66	0.0101 <	0.020 <	0.026 <	0.155	0.000	4.235 <	0.340
STATION 26	628	82-91	0.0201 <	0.020 <	0.026 <	0.155	0.000	7.290 <	0.340
	629	82-98	0.0124 <	0.020 <	0.026 <	0.155	0.000	4.867 <	0.340

GAS DATA FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	N2	O2	CO2	AR	HE	H2	CH4	CARBON MONOXI
DB-13	92	83-404	83.30	0.02	0.07	0.97	<	0.01	15.60 <	0.10
DB-15	102	79-17	0.65	0.01	0.20 <	0.01 <	0.010	0.13 <	0.01 <	0.10
	103	79-35	0.27	0.02	0.01 <	0.01 <	0.010	0.10 <	0.01 <	0.10
	104	79-33	0.02	0.01 <	0.01 <	0.01 <	0.010	0.01 <	0.01 <	0.01
	105	79-15	7.57	0.18	0.06	0.35 <	0.010	0.33	29.20	14.40
	106	79-39	2.50	0.03	0.07	0.05 <	0.010	0.10	4.40 <	0.10
	109	79-51	3.58 <	0.01	0.03	0.09 <	0.010 <	0.01	96.30 <	0.10
	109	79-61	3.87 <	0.01	0.01	0.08 <	0.010 <	0.01	96.00 <	0.10
	109	79-92	3.80 <	0.01	0.02	0.08 <	0.010 <	0.01	96.10 <	0.10
	110	79-74	74.10	18.10	0.04	0.93 <	0.010	0.06	3.98	2.82
	110	79-85	70.30	18.60	0.04	0.88 <	0.010	0.04	7.07	3.10
	111	79-80	4.21	0.02 <	0.01	0.08 <	0.010	0.82	94.87 <	0.10
	111	79-99	4.00 <	0.01 <	0.01	0.07 <	0.001	0.85	95.07 <	0.10
	112	79-62	10.88	0.38	1.33 <	0.01 <	0.010	4.35	83.06 <	0.10
	112	79-84	7.62	0.11	0.10	0.19 <	0.010 <	0.01	91.98 <	0.10
	114	80-35	10.90	0.71	0.20	0.22 <	0.010	1.07	86.90 <	0.10
	114	80-41	8.34	0.18	0.22	0.18 <	0.010	1.28	89.80 <	0.10
	115	80-24	5.40 <	0.01	0.01	0.11		0.09	94.40 <	0.10
	115	80-74	5.50 <	0.01	0.02	0.11 <	0.010	0.05	94.30 <	0.10
	116	80-42	7.77 <	0.01 <	0.01	0.16 <	0.010	0.95	91.10 <	0.10
	116	80-77	8.38 <	0.01 <	0.01	0.16		0.94	90.50 <	0.10
	117	80-1	5.60 <	0.01 <	0.01	0.09 <	0.010 <	0.01	94.30 <	0.10
	117	80-51	6.06 <	0.01 <	0.01	0.15 <	0.010 <	0.01	93.80 <	0.10
DC-05	139	79-30	1.70 <	0.01 <	0.01	0.16	0.010 <	0.01	93.40	4.72
DC-06	143	80-238	98.00	0.01 <	0.01	1.12		0.01	0.57	0.10
	149	80-15	97.60	0.49	0.16	1.35	<	0.01 <	0.01 <	0.10
	151	80-29	97.80 <	0.01	0.04	1.16		0.17	0.48 <	0.10
	151	80-37	96.80	0.12 <	0.01	1.60	0.320	0.20	0.90 <	0.10
	152	79-57	97.50 <	0.02 <	0.02	1.14	0.300	0.24	0.77 <	0.10
	152	79-58	97.60	0.05 <	0.01	1.17	0.260	0.19	0.75 <	0.10
	153	80-45	96.00 <	0.01 <	0.01	1.23		0.23	1.58 <	0.10
	153	80-75	96.00	0.19 <	0.01	1.54		0.29	1.95 <	0.10
DC-07	154	82-23	91.30	0.59 <	0.01	1.19		0.08	4.32	2.30
	154	82-56	92.00	0.37 <	0.01	1.13		0.09	4.39	1.80
	155	82-10A	94.60 <	0.01	0.02	1.01	<	0.01	4.14 <	0.10
	155	82-10B	91.00	0.54 <	0.01	1.10	0.200	0.03	5.16	2.00
	155	82-33	89.70	0.64 <	0.01	1.10		0.03	5.19	3.20
DC-12	162	80-80	3.42 <	0.01	0.50	0.14 <	0.010 <	0.01	95.90 <	0.10
	163	80-100	7.78 <	0.01 <	0.01	0.11 <	0.010 <	0.01	92.10 <	0.10
	163	80-40	5.79	0.01 <	0.01	0.13 <	0.010 <	0.01	94.10 <	0.10
	164	80-97	5.20	0.11	0.06	0.12 <	0.010 <	0.01	92.70	1.80
	165	80-32	7.86 <	0.01	0.13	0.12 <	0.010 <	0.01	91.90 <	0.10
	167	80-124	8.30 <	0.01	0.02	0.14 <	0.010 <	0.01	91.50 <	0.10
	172	80-234	99.20	0.01	0.02	0.63 <	0.010 <	0.01	0.11 <	0.10

GAS DATA FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	N2	O2	CO2	AR	HE	H2	CH4	CARBON MONOXI
DC-14	182	80-144	98.60 <	0.01	0.07	0.95 <	0.010	0.38 <	0.01 <	0.10
	184	80-112	98.70 <	0.01	0.08	1.19 <	0.010 <	0.01 <	0.01 <	0.10
	186	80-155	99.00 <	0.01 <	0.01	0.97 <	0.010 <	0.01 <	0.01 <	0.10
	187	80-104	98.80 <	0.01	0.02	1.14 <	0.010 <	0.01 <	0.01 <	0.10
	189	80-170	98.70 <	0.01	0.04	1.24 <	0.010 <	0.01 <	0.01 <	0.10
	190	80-117	98.80	0.05 <	0.01	1.11	<	0.01 <	0.01 <	0.10
	193	81-30	0.19	0.01	0.06	99.70 <	0.010 <	0.01 <	0.01 <	0.10
	199	81-114	98.40 <	0.01	0.01	1.10		0.01	0.12 <	0.10
	199	81-138	98.40	0.01	0.01	1.10	<	0.01	0.12 <	0.10
	199	81-188	98.40 <	0.01	0.01	1.14	<	0.01	0.14 <	0.10
	200	82-8	98.00 <	0.01	0.86	1.10 <	0.010 <	0.01 <	0.01 <	0.10
	201	82-315	98.00 <	0.01 <	0.01	1.27	<	0.02	0.07 <	0.50
	202	83-156	98.50	0.01	0.02	1.01	<	0.01	0.14 <	0.10
	203	83-152	98.30	0.05	0.15	0.98	<	0.01 <	0.01 <	0.10
	204	83-157	98.30 <	0.01 <	0.01	1.11	<	0.01	0.15 <	0.10
	205	83-178	98.40 <	0.01 <	0.01	1.06	<	0.01	0.14 <	0.10
	206	83-183	98.40 <	0.01	0.06	1.03	0.400 <	0.01	0.11 <	0.10
	207	83-154	98.40 <	0.01	0.02	1.02	0.410 <	0.01	0.14 <	0.10
	208	83-150	84.30	14.60	0.02	0.95	0.060 <	0.01	0.05 <	0.10
	209	83-266	98.40 <	0.01	0.05	1.04	<	0.01 <	0.01 <	0.10
	210	83-261	80.60	18.50	0.02	0.84	0.020 <	0.01 <	0.01 <	0.10
DC-15	213	80-65	11.10 <	0.01	0.51	0.25 <	0.010	0.06	82.50	5.60
	214	80-87	3.18 <	0.01	0.07	0.08 <	0.010 <	0.01	96.70 <	0.10
	215	80-137	11.90 <	0.01	0.01	0.17 <	0.010 <	0.01	87.90 <	0.10
	216	80-176	19.70 <	0.01 <	0.01	0.25 <	0.010 <	0.01	80.00 <	0.10
	217	80-135	21.50 <	0.01 <	0.01	0.32 <	0.010 <	0.01	78.20 <	0.10
	218	80-120	33.80 <	0.01 <	0.01	0.41	<	0.01	65.70 <	0.10
	219	80-131	98.50	0.05	0.01	1.14	<	0.01	0.14 <	0.10
	220	80-193	97.80	0.55 <	0.01	1.14	<	0.01	0.35 <	0.10
	229	82-94	97.50 <	0.01	0.02	1.06	<	0.01	1.27 <	0.10
DC-16A	231	82-17	98.50 <	0.01	0.30	1.20 <	0.010 <	0.01 <	0.01 <	0.10
	231	82-55	98.40 <	0.01	0.30	1.20 <	0.010 <	0.01 <	0.01 <	0.10
	232	82-93	88.50	0.10	0.41	1.11 <	0.010 <	0.01	9.92 <	0.10
	233	82-19	7.44 <	0.01	0.03	0.14 <	0.010 <	0.01	92.40	1.80
	233	82-19A	7.44 <	0.01	0.03	0.14 <	0.010 <	0.01	92.40 <	0.10
	233	82-19B	8.80	1.33	0.01	0.21 <	0.010 <	0.01	87.90	1.80
	233	82-72	6.50	0.46 <	0.01	0.10 <	0.001 <	0.01	91.90	1.00
	234	82-140	54.50	14.00	0.07	0.69 <	0.010	0.37	30.30 <	0.10
	234	82-188	5.48 <	0.01	0.01	0.13 <	0.010	0.02	94.40 <	0.10
	234	82-188A	77.10	21.00	0.07	1.19 <	0.010 <	0.01	0.65 <	0.10
	235	82-124	30.20 <	0.01	0.12	0.46 <	0.010	0.18	69.00 <	0.10
	235	82-135	74.50	19.90	0.12	0.91 <	0.010	0.02	4.58 <	0.10
	235	82-139	75.70	21.00	0.14	0.92 <	0.010	0.01	2.18 <	0.10
	236	82-168	3.58	0.15	0.01	0.07 <	0.010 <	0.01	96.20 <	0.10
	237	82-214A	8.82	1.60	0.01	0.14 <	0.010	0.04	89.40 <	0.10
	237	82-214B	6.05	0.86 <	0.01	0.12 <	0.010	0.04	92.90 <	0.10
	237	82-279A	10.20	2.17	0.03	0.17 <	0.010	0.04	87.40 <	0.10
	237	82-279B	11.20	2.35	0.03	0.18 <	0.010	0.04	86.20 <	0.10

GAS DATA FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	N2	O2	CO2	AR	HE	H2	CH4	CARBON MONOXI
DC-16A	239	82-322	3.28 <	0.01	0.06	0.06 <	0.010	0.01	96.60 <	0.10
	239	82-334	1.86 <	0.01 <	0.01	0.04	<	0.01	98.00 <	0.10
	239	82-355	1.91 <	0.01 <	0.01	0.04	<	0.01	98.00 <	0.10
	239	82-394	1.91 <	0.01 <	0.01	0.06 <	0.010 <	0.01	98.00	
	240	82-313	1.23 <	0.01	0.02	0.03 <	0.006 <	0.01	98.70 <	0.50
	240	82-339	0.70 <	0.10 <	0.10 <	0.10 <	0.100	0.20	99.00 <	0.50
	240	82-345	1.20 <	0.01	0.02	0.04 <	0.006 <	0.01	98.70 <	0.50
	241	82-419	1.67	0.01 <	0.01	0.03 <	0.001 <	0.01	98.30 <	0.10
	242	82-430	1.78	0.09	0.02	0.03 <	0.010	0.04	98.00 <	0.10
	242	82-464	1.73	0.01 <	0.01	0.03 <	0.010 <	0.01	98.20 <	0.10
	243	83-20	19.00	4.80	0.04	0.24 <	0.010 <	0.01	75.90 <	0.10
	243	83-29	1.59 <	0.01 <	0.01	0.03 <	0.010 <	0.01	98.40 <	0.10
	243	83-54	1.49 <	0.01	0.01	0.03 <	0.010 <	0.01	98.50 <	0.10
DC-19C	247	84-53	69.10	14.40	0.05	1.04 <	0.010 <	0.01	15.40 <	0.10
	248	84-40A	29.60	0.10	1.30	0.90	<	0.01	68.10 <	0.10
	248	84-40B	40.60 <	0.01	0.30	1.20 <	0.003 <	0.01	57.90 <	0.10
	248	84-44	58.50 <	0.01	0.01	0.94	0.004 <	0.01	40.60 <	0.10
	249	84-73	45.70 <	0.01	0.01	0.97	0.007 <	0.01	50.50	2.80
	249	84-75	48.90	0.04	0.07	0.79 <	0.010	0.03	47.80	2.40
	250	84-46	37.40 <	0.01	0.01	0.68 <	0.010 <	0.01	60.00	1.90
	250	84-86	41.20	0.98	0.08	0.66 <	0.010	0.10	56.00	0.90
DC-20C	251	84-76	30.40	0.04	0.08	0.73	0.006 <	0.01	68.80 <	0.10
	251	84-9	53.00 <	0.01	0.01	0.80 <	0.003 <	0.01	46.30 <	0.10
DC-22C	252	84-105	16.70	0.17	0.36	0.35 <	0.001 <	0.10	82.40 <	0.10
ENYEART	255	84-166	55.40	6.79	4.77	1.44 <	0.010	0.11	31.50 <	0.10
MCGEE	265	82-7	46.00 <	0.01	9.20	1.00 <	0.010 <	0.01	44.00	0.10
	269	82-64	64.80 <	0.01	0.85	0.90 <	0.010 <	0.01	33.40 <	0.10
	271	82-248A	64.20	0.15	0.19	0.94 <	0.010	0.10	34.40 <	0.50
	271	82-248B	64.29	0.11	0.11	0.95 <	0.010	0.09	34.50 <	0.50
	272	82-343	65.20 <	0.01	0.20	0.98 <	0.010	0.04	33.60 <	0.10
	272	82-373	65.10 <	0.01	0.21	0.96 <	0.010	0.04	33.70 <	0.10
	272	82-397	77.10 <	0.01	0.66	1.08 <	0.010 <	0.01	21.20 <	0.10
	273	82-424	71.00	0.29	0.24	0.76 <	0.010 <	0.01	27.70 <	0.50
	273	82-428	66.90	0.02	0.25	0.97 <	0.010	0.06	31.80 <	0.10
	273	82-486	66.70	0.01	0.29	0.96 <	0.010	0.06	32.00 <	0.10
	274	82-436	70.00 <	0.01	0.33	0.90 <	0.010 <	0.01	28.70 <	0.10
	275	83-85	71.00	0.86	0.67	0.93 <	0.010 <	0.01	26.60 <	0.10
	276	83-83	70.30	0.07	0.37	0.91 <	0.010 <	0.01	28.40 <	0.10
	277	83-188	72.50 <	0.01	0.15	0.85 <	0.010	0.02	26.50 <	0.10
	279	83-331	44.10	0.32	0.36	1.02 <	0.010 <	0.01	54.20 <	0.10
	281	83-476	44.00	0.04	0.06	0.70 <	0.010 <	0.01	50.30	4.90
	282	83-513	79.10	0.03	0.04	0.95	0.040 <	0.01	19.10	4.70
	283	84-24	67.90	0.01	0.09	0.89	0.060 <	0.01	31.00 <	0.10
ARL-02	285	82-65	16.20 <	0.01	0.04	0.25 <	0.010	0.22	83.30 <	0.10

GAS DATA FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	N2	O2	CO2	AR	HE	H2	CH4	CARBON MONOXI
RRL-02	288	82-401	2.36 <	0.01	0.04	0.04 <	0.010 <	0.01	97.60 <	0.10
	288	82-414	62.70	16.70	0.07	0.76 <	0.010 <	0.01	19.80 <	0.10
	288	82-479	1.45 <	0.01 <	0.01	0.02		0.17	98.20 <	0.10
	289	84-47	1.26 <	0.01 <	0.01	0.02 <	0.010	0.02	98.70 <	0.10
	290	82-364	1.69	0.14	0.04	0.03 <	0.010	0.20	97.90	
	290	82-370	3.11	0.03 <	0.01	0.05 <	0.010	0.11	96.70 <	0.10
	290	82-391A	1.97 <	0.01	0.02	0.03		0.16	97.80 <	0.50
	290	82-391B	1.87 <	0.01	0.01	0.03		0.15	97.90 <	0.50
	290	82-391C	2.21	0.31	0.02	0.04		0.17	97.20	
	291	82-383	3.56	0.07 <	0.01	0.06 <	0.010	0.13	96.20 <	0.10
	292	82-411	1.08 <	0.01 <	0.01	0.02 <	0.010 <	0.01	98.90 <	0.10
	292	82-445	1.64 <	0.01 <	0.01	0.02 <	0.010 <	0.01	98.30 <	0.10
	292	82-456	2.43	0.03 <	0.01	0.03		0.03	97.50 <	0.10
RRL-06B	293	83-25	2.08 <	0.01	0.04	0.04 <	0.010 <	0.01	97.80 <	0.10
	293	83-69	2.72	0.44	0.02	0.06	0.290 <	0.01	96.50 <	0.10
RRL-14	294	82-418	1.65	0.02 <	0.01	0.02 <	0.010 <	0.01	98.30 <	0.10
	294	82-448	1.61 <	0.01 <	0.01	0.02 <	0.010 <	0.01	98.40 <	0.10
	295	84-11	2.02 <	0.01	0.01	0.04	0.010 <	0.01	97.90 <	0.10
	296	83-151	2.17 <	0.01	0.05	0.26 <	0.010 <	0.01	97.50 <	0.10
	297	83-49	1.90	0.03	0.02	0.04 <	0.010 <	0.01	98.00 <	0.10
	297	83-96	1.91	0.03	0.01	0.04 <	0.010 <	0.01	98.00 <	0.10

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
299-E16-1	1	SITE-161							5.25	0.22
	2	SITE-162							0.30	0.07
	3	SITE-163							-0.01	0.07
	4	SITE-164							0.09	0.06
299-E26-8	5	SITE-166							-0.03	0.06
	6	SITE-167							1.04	0.11
	7	SITE-168							1.82	0.11
299-E33-12	8	SITE-170							84.50	1.80
	9	SITE-171							90.00	2.10
	10	SITE-172							103.00	2.00
699-42-40C	11	SITE-177							12.00	0.40
	12	SITE-178							5.98	0.22
	13	SITE-179							3.78	0.13
	14	SITE-180							4.18	0.13
	15	SITE-176							374.00	7.00
699-47-50	16	SITE-205							308.20	8.64
	17	SITE-181							97.00	3.10
699-49-55B	18	SITE-183							0.24	0.09
	19	SITE-184							0.25	0.08
	20	SITE-185							0.22	0.08
699-50-45	21	SITE-203	Y	26.80		10580.0	270.0	270.0	0.16	0.13
	22	SITE-186							0.36	0.07
699-50-48	23	SITE-204	Y	17.02		14230.0	350.0	350.0	17.22	0.38
	24	SITE-187							4.10	0.22
699-51-46	25	SITE-201	Y	40.87		7190.0	160.0	160.0	-0.06	0.16
	26	SITE-188							0.57	0.09
699-52-46A	27	SITE-202	Y	24.40		11335.0	200.0	200.0	0.45	0.13
	28	SITE-189							0.09	0.08
699-52-48	29	SITE-199	Y	14.28		15640.0	210.0	210.0	0.26	0.16
	30	SITE-190							0.28	0.08
699-53-50	31	SITE-200	Y	40.42		7280.0	120.0	120.0	1.79	0.19
	32	SITE-191							0.45	0.08
699-54-57	33	SITE-192							0.02	0.09
699-56-53	34	SITE-196							0.42	0.08
	35	SITE-197							-0.02	0.06
DB-01	36	CP73							0.04	0.05

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
DB-01	37	CP179							0.47	0.06
	38	81-19		2.50		29600.0	1800.0	-1400.0	1.47	0.10
	39	81-65		3.20		27900.0	2200.0	-1500.0	2.68	0.09
	40	82-27	Y	7.21		21135.0	990.0	990.0	0.54	0.06
	40	82-87		2.80		29700.0	3000.0	-2000.0		
DB-02	45	CP181							-0.04	0.04
	46	81-13		10.90		17880.0	860.0	-860.0	7.81	0.27
	47	81-10		2.20		30750.0	2400.0	-1800.0	0.29	0.05
DB-04	49	CP75		10.60		18040.0			0.05	0.05
DB-05	52	CP76		8.50		19820.0			1.03	0.10
DB-07	58	CP183							0.00	0.04
	59	83-413		4.00	1.00	25870.0	2340.0	-1810.0	0.05	0.08
DB-09	62	CP78		23.60		11627.0			0.50	0.08
	65	CP177							1.79	0.08
	66	83-472		21.50	1.10	12350.0	415.0	-415.0	0.68	0.11
DB-10	68	CP185							1.40	0.08
DB-12	81	81-25	Y	8.01		20290.0	490.0	-490.0	1.13	0.07
DB-13	86	CP91							0.14	0.05
	87	CP92							0.02	0.04
	91	80-159	Y	9.00		19350.0	750.0	-750.0		
	92	83-404		10.70	1.10	17920.0	860.0	-860.0	0.06	0.07
DB-14	93	CP93		33.30		8840.0	130.0	-130.0	-0.01	0.04
	95	CP99		17.80		13900.0	160.0	-160.0	0.01	0.05
	99	CP103		17.00		14270.0	210.0	-210.0	0.01	0.05
	101	81-139	<	2.80		> 28000.0				
	101	81-162		3.40		27450.0	1450.0	-1230.0	2.59	0.13
DB-15	102	79-17							10.80	0.20
	102	79-22							10.60	0.20
	103	79-20							0.26	
	103	79-35							0.90	
	104	79-27								
	104	79-33							0.11	
	105	79-15							0.12	
	105	79-38							0.11	0.05
	106	79-39		3.80		26300.0	2100.0	-1700.0	0.10	
	106	79-8							0.95	
	107	79-31								
	107	79-5							0.23	0.05
	109	79-51							0.25	
	110	79-66							0.12	0.05

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
DB-15	110	79-74							0.12	
	110	79-85							0.19	
	111	79-80		5.30		23760.0	1450.0	-1130.0	0.15	
	112	79-62		3.70		26590.0	3100.0	-2200.0		
	113	79-86							0.04	0.05
	114	80-35	<	1.90	>	32000.0				
	114	80-41							0.11	0.05
	115	80-24		3.20		27670.0	2100.0	-1800.0		
	116	80-77	Y	2.39		30000.0				
	116	80-92							0.09	0.05
	117	80-1		3.70		27800.0	1800.0	-1600.0		
	117	80-51							0.07	0.05
DC-01	118	SITE-230							23.00	1.00
	120	SITE-227							1.10	0.20
	121	SITE-228							1.00	0.30
	123	SITE-231							5.30	0.40
	124	SITE-232							2.20	0.30
	125	SITE-233							2.20	0.30
	126	SITE-234							2.30	0.30
	127	SITE-235							6.20	0.40
	128	SITE-236							1.30	0.30
	129	SITE-237							108.00	6.00
	130	SITE-238							9.60	0.60
	131	SITE-239							0.00	0.30
	132	SITE-240							2.00	0.30
	133	SITE-241							4.40	0.40
	134	SITE-242							17.80	0.40
DC-02A	137	SITE-213							16.40	0.50
DC-05	139	79-30							1.08	
DC-06	142	SITE-214							0.08	0.04
	143	80-238	Y	18.92		13380.0	650.0	-650.0	-0.13	0.08
	144	80-186							0.04	0.07
	144	80-191	Y	9.32		19070.0	1400.0	-900.0	0.09	0.07
	147	81-26								
	147	81-45	Y	24.08		11440.0	510.0	-510.0	-0.02	0.05
	148	80-118							-0.06	0.05
	149	80-15							0.12	0.07
	150	81-82							0.01	0.05
	151	80-29	Y	8.30	<	20000.0			-0.01	0.04
	152	79-57	<	4.60	>	23000.0			-0.01	0.05
	152	79-58		12.60		16790.0	1100.0	-900.0		
	152	79-91							0.00	0.01
	153	80-18							0.04	0.05
	153	80-75							0.09	0.05
DC-07	154	82-23		33.60		8770.0	360.0	-360.0	6.74	0.19

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
DC-07	155	82-10							5.15	0.17
	159	80-103	Y	27.28		10440.0	670.0	-670.0	5.05	0.10
	159	80-163							4.81	
	161	80-196	Y	52.36		5200.0	260.0	-260.0	4.70	0.19
DC-12	162	80-62							1.77	0.08
	162	80-80	Y	3.16		27750.0	2700.0	-1780.0	1.89	0.08
	163	80-100	Y <	1.87	>	32000.0			0.42	0.08
	163	80-63							0.01	0.05
	164	80-73							0.31	0.06
	164	80-97	Y <	1.45	>	34000.0			0.34	0.06
	165	80-32	Y	3.74		26415.0	1935.0	-1560.0	1.18	0.08
	165	80-79							1.20	0.07
	166	80-82	Y	3.20		27660.0	2500.0	-1800.0	0.59	0.07
	167	80-124	Y	2.61		29300.0	2100.0	-1900.0	-0.11	0.05
	169	80-174	Y	5.95		22670.0	1400.0	-1100.0	4.10	0.14
	170	80-209	Y	8.90		19440.0	850.0	-850.0	2.48	0.12
	172	80-234	Y	15.41		15030.0	510.0	-510.0	9.27	0.34
	173	81-61		11.70		17240.0	730.0	-730.0	0.16	0.06
	174	82-85		3.20		27610.0	960.0	-960.0	0.19	0.07
DC-14	175	80-3	Y	5.08		23940.0	1540.0	-1190.0	0.10	0.06
	176	80-53	Y	3.86		26160.0	2360.0	-1830.0	-0.08	0.05
	177	80-47	Y	4.77		24460.0	1900.0	-1370.0	0.07	0.05
	178	80-69	Y <	1.87	>	32000.0			0.12	0.05
	178	80-83							-0.07	0.05
	179	80-99	Y	1.45		34000.0			0.23	0.05
	180	80-36							0.79	
	180	80-89	Y <	3.07	>	28000.0			0.76	0.06
	181	80-71	Y	5.39		23475.0	1450.0	-1450.0	1.23	0.06
	182	80-144	Y	1.83		32150.0	6900.0	-3660.0	-0.03	0.08
	183	80-127							1.01	
	183	80-189	Y <	1.45	>	34000.0			0.95	0.07
	184	80-111							0.14	
	184	80-112	Y	3.03		28110.0	3100.0	-2200.0	0.63	0.06
	184	80-168							0.14	0.07
	185	80-183	Y	2.32		30250.0	6000.0	-3000.0	0.37	0.06
	186	80-145							0.56	0.07
	186	80-155	Y	2.55		29500.0	2800.0	-2200.0	0.04	0.05
	187	80-104	Y	4.67		24630.0	1600.0	-1300.0	1.29	0.07
	188	80-129	Y <	1.87	>	32000.0			0.22	0.07
	189	80-170	Y <	1.65	>	33000.0			1.45	0.08
	190	80-117	Y <	1.45	>	34000.0			0.49	
	191	80-213	Y	4.34		25220.0	1150.0	-1150.0	0.26	0.05
	192	81-20	Y	11.67		17260.0	670.0	-670.0	1.81	0.11
	193	81-18							40.30	0.07
	193	81-30							0.22	0.08
	194	81-44		11.90		17090.0	1100.0	-1100.0	1.38	0.09
	195	81-141		9.10		19250.0	1760.0	-1440.0		
	196	81-21		5.40		23600.0	1100.0	-1100.0	2.43	0.17

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
DC-14	197	81-99							0.55	
	199	81-138		8.20		21000.0	1600.0	-1300.0	7.16	0.27
	199	81-188		16.30		14610.0	1150.0	-1005.0		
	200	82-8	<	2.00		> 32000.0			0.07	0.04
	202	83-156							0.01	0.07
	203	83-152							-0.05	0.07
	204	83-157							0.63	0.04
	205	83-178							0.13	0.06
	206	83-183							0.27	0.07
	207	83-154		4.50	0.90	24920.0	1850.0	-1500.0	0.14	0.09
	208	83-150							-0.04	0.07
	209	83-266	<	1.80		> 32000.0			0.05	0.07
	210	83-261							0.32	0.09
DC-15	211	80-31							0.04	0.06
	211	80-56	Y	7.72		20580.0	1050.0	-880.0	0.16	0.06
	212	80-54	Y	4.82		24375.0	1740.0	-1430.0	0.25	0.05
	212	80-76							0.13	0.07
	213	80-57	Y <	1.00		> 37000.0			0.14	0.04
	214	80-87	Y	1.11		36200.0	6200.0	-3500.0	0.35	0.06
	215	80-137	Y	3.72		26450.0	2400.0	-1800.0	0.95	0.08
	216	80-176	Y	5.47		23350.0	1900.0	-1500.0	0.42	0.06
	217	80-135	Y	3.43		27100.0	2400.0	-1900.0	2.87	0.11
	218	80-120	Y <	1.45		> 34000.0			4.67	0.12
	218	80-139							7.37	0.07
	219	80-108	Y <	1.87		> 32000.0			0.32	0.07
	219	80-131	Y <	2.39		> 30000.0			0.44	0.07
	220	80-193	Y <	1.65		> 33000.0			0.69	0.07
	221	81-41	Y	13.64		16010.0	760.0	-760.0	0.90	0.06
	222	81-2	Y	21.06		12520.0	490.0	-490.0	3.80	0.12
	224	81-33							0.81	0.06
	224	81-37							52.30	0.07
	225	81-27		6.20		22450.0	3500.0	-2400.0	0.63	0.07
	226	81-64		11.40		17700.0	1150.0	-1150.0	1.48	0.14
	227	81-96							0.64	0.05
	228	81-69		14.40		15625.0	880.0	-880.0	0.15	0.06
	229	82-94		20.90		12570.0	410.0	-410.0	1.58	0.07
DC-16A	230	81-109		19.60		13080.0	285.0	-285.0	3.01	0.11
	231	82-17		19.90		12970.0	355.0	-355.0	1.45	0.08
	232	82-93		7.40		20870.0	1050.0	-1050.0	0.92	0.07
	233	82-19		4.40		25140.0	1600.0	-1600.0	0.85	0.09
	234	82-188		3.00		28230.0	1650.0	-1650.0	0.40	0.10
	235	82-124		4.80		24370.0	1450.0	-1450.0	0.43	0.07
	236	82-143	Y	15.08		15200.0	1200.0	-800.0	0.46	0.08
	237	82-202	Y	28.90		9975.0	285.0	-285.0	0.60	0.08
	239	82-322							0.34	0.08
	240	82-332							0.30	0.08
	242	82-430							0.85	0.07
	243	83-29							0.70	0.07

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE		C-14 "AGE"	C14+ RANGE	C14- RANGE		H-3	H-3 RANGE
DC-16B	244	83-147		3.90			26170.0	1450.0	-1230.0		0.03	0.07
DC-16C	245	83-100									0.16	0.07
DC-19C	247	84-53		3.60	0.90		26760.0	2300.0	1790.0		0.37	0.08
	248	84-40		6.10	1.10		22500.0	1650.0	1370.0		1.86	0.10
	249	84-75		15.60	1.70		14910.0	890.0	890.0		1.68	0.07
	250	84-86		7.40	1.00		20920.0	1130.0	990.0		3.48	0.14
DC-20C	251	84-9		2.10	1.30		31110.0	7440.0	3800.0		0.06	0.07
DC-22C	252	84-105		2.40	1.20	Y	29971.2				-0.10	0.08
	252	84-153									-0.02	0.07
ENYEART	255	84-166		10.50	0.90	Y	18111.1				0.00	0.07
FORD	257	BITE-206		13.60	0.60		16000.0			<	0.90	
	259	BITE-219									0.15	0.04
MCGEE	262	BITE-223		6.80	0.30		22000.0			<	0.50	
	264	BITE-220									-0.03	0.04
	265	82-7		3.30			28500.0	1850.0	-1850.0		0.03	0.06
	266	80-64	Y	7.28			21050.0	810.0	-810.0		-0.02	0.05
	266	80-88									0.16	
	267	81-79		6.90			23650.0	1650.0	-1650.0		0.02	0.04
	268	81-54		9.30			19125.0	760.0	-760.0		0.19	0.05
	269	82-64	<	1.00		>	37000.0				-0.06	
	271	82-263	Y	15.46			15000.0	560.0	-560.0		0.05	0.07
	272	82-397	Y	14.04			15775.0	620.0	-620.0		0.00	0.09
	273	82-424		6.70	0.70		21670.0	840.0	-840.0		0.00	0.08
	274	82-436		8.10	0.80		20220.0	1480.0	-1250.0		0.00	0.08
	275	83-32		6.80	0.50		21650.0	580.0	-580.0		-0.04	0.06
	276	83-83		7.90	0.50		20430.0	470.0	-470.0		0.02	0.06
	277	83-188		3.20	0.60		27690.0	1710.0	-1410.0		0.30	0.10
	278	83-373		4.10	1.00		25660.0	2290.0	-1780.0		0.00	0.07
	279	83-331		3.50	1.00		26940.0	2790.0	-2070.0		-0.09	0.07
	280	83-460	<	1.30		>	35000.0				0.40	0.07
	281	83-476		3.00	0.70		28110.0	1950.0	-1570.0		-0.02	0.06
	282	83-513									5.04	0.15
	283	84-24		2.60	0.70		29450.0	2640.0	-1980.0		0.70	0.06
RRL-02	284	82-68									1.19	0.08
	285	82-65		1.20			36000.0	5000.0	-3000.0		0.98	0.09
	286	82-170		24.40			12300.0	1800.0	-1800.0		6.34	0.22
	287	82-122	Y	22.35			12040.0	330.0	330.0		0.90	0.10
	288	82-401		9.40	0.90		19000.0	750.0	-750.0		4.44	0.15
	289	84-7		7.60	1.10		20760.0	1310.0	-1120.0		0.79	0.08
	290	82-364	Y	5.74			22960.0	650.0	-650.0		0.86	0.11
	292	82-456		10.30	0.90		18290.0	690.0	-690.0		0.68	0.08

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
B11-E12A	298	80-61	Y	5.21		23740.0	1145.0	-1005.0	0.07	0.04

RADIOACTIVE ISOTOPES FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
299-E26-8	307	SITE-165						403.00	7.00
299-E33-12	308	SITE-169						426.00	8.00
699-37-43	377	SITE-173						28900.00	500.00
699-42-40A	390	SITE-174						80200.00	999.99
699-47-55A	399	SITE-182						0.26	0.08
699-55-50C	420	SITE-193						46.20	1.60
699-60-57	430	SITE-198						214.00	6.00

RADIOACTIVE ISOTOPES FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER		C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
BENNETT SPRING	471	SITE-218							0.37	0.04
	472	79-13							0.34	0.04
BENSON SPRING	473	SITE-217							3.17	0.24
BUTLER SPRING	474	79-1							1.52	
JUNIPER SPRING	476	SITE-215							0.15	0.04
	477	79-2								
	478	81-115	Y	22.77		11890.0	320.0	-320.0	0.58	0.05
	478	81-161		65.90		3345.0	165.0	-165.0	4.24	0.18
	479	83-372							-0.05	0.08
LOWER SNIVELY SPRING	480	79-19							1.32	
	480	79-34								
	481	82-362		67.60	2.00	3140.0	240.0	-240.0	0.92	0.08
	482	83-396							1.19	0.11
LOZIER SPRING	483	79-44							5.65	
	484	81-186		65.90		3345.0	165.0	-165.0	4.24	0.18
	485	83-316							2.84	0.12
MAIDEN SPRING	486	79-96		106.20		480.0	135.0	-135.0		
	487	83-420							2.98	0.12
OBSERVATORY SPRING	488	84-392		104.40	1.80				5.02	0.14
	490	81-119		101.90					5.03	0.21
	491	83-492							4.79	0.16
RAILROAD SPRING	492	79-76							7.17	
RATTLESNAKE SPRING	493	SITE-216							0.47	0.06
	495	83-412							1.89	0.07
SNIVELY SPRING	496	79-49								
SULPHUR SPRINGS	497	79-29								
	498	83-409							3.98	0.17
UNNAMED SPRING #02	499	79-70							5.27	0.13
UNNAMED SPRING #16	500	79-82		111.10		840.0	130.0	-130.0		
UNNAMED SPRING #26	501	79-98							6.66	0.13
UNNAMED SPRING #29	502	79-16		104.70		370.0	125.0	-125.0		
UPPER SNIVELY SPRING	504	81-126		78.60		1935.0	140.0	-140.0	1.76	0.10
	505	83-503							1.28	0.06

RADIOACTIVE ISOTOPES FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
WARM SPRING	506	84-358						0.12	0.08

RADIOACTIVE ISOTOPES FOR SURFACE

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
COL RIV @ HANFORD TB	507	SITE-221						78.30	0.04
COL RIV @ VERNITA BR	509	B4-311	102.00	3.70				29.70	0.80
COL RIVER @ DC-14	510	B3-258	125.60	3.80				41.80	1.10
COL RIVER @ DC-15	512	B1-1						54.10	
COLD CREEK	514	B4-302	112.80	1.80				6.46	0.24

RADIOACTIVE ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
STATION 03	516	82-51						16.30	0.40
	517	82-81						11.60	0.30
	518	82-78						18.10	0.60
	519	82-179						14.90	0.40
	520	82-138						16.90	0.40
	521	83-90						8.79	0.29
	522	83-46						5.70	0.21
	523	83-118						7.65	0.26
	524	83-132						6.64	0.39
	525	83-189						9.08	0.29
STATION 04	530	82-61						16.10	0.40
	531	82-60						14.10	0.40
	532	82-90						17.60	0.40
	533	82-120						16.10	0.50
	534	82-117						18.40	0.50
	535	83-36						8.56	0.32
	536	83-84						5.41	0.17
	537	83-141						7.25	0.17
	538	83-116						8.16	0.34
	539	83-110						7.72	0.30
	540	83-155						9.01	0.35
	541	83-102						7.40	0.30
STATION 07	546	82-92						16.10	0.40
	547	82-57						13.80	0.40
	548	82-44						17.50	0.50
	549	82-136						15.80	0.50
	550	82-185						17.70	0.50
	551	83-43						8.48	0.27
	552	83-23						5.65	0.20
	553	83-187						7.51	0.29
	554	83-148						9.47	0.38
	555	83-169						7.52	0.31
STATION 14	560	82-20						16.20	0.50
	561	82-63						14.80	0.40
	562	82-86						19.20	0.50
	563	82-178						14.30	0.30
	564	82-147						15.70	0.50
	565	83-71						12.40	0.40
	566	83-55						6.10	0.30
	567	83-184						8.77	0.34
	568	83-160						8.76	0.35
	569	83-174						11.10	0.40
STATION 17	576	82-70						8.11	0.26
	577	82-80						14.10	0.40
	578	82-100							0.70
	579	82-118						12.80	0.30

RADIOACTIVE ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C14 PMC	PMC RANGE	C-14 "AGE"	C14+ RANGE	C14- RANGE	H-3	H-3 RANGE
STATION 17	580	82-134						15.90	0.40
	581	83-11						7.12	0.21
	582	83-86						5.62	0.20
	583	83-120						8.51	0.36
	584	83-199						6.64	0.28
	585	83-182						7.70	0.31
	586	83-126						7.33	0.31
STATION 19	589	83-159						6.64	0.21
STATION 20	593	82-58						8.07	0.28
	594	82-74						14.60	0.40
	596	82-1						14.10	0.40
	597	82-96						23.40	1.30
	598	82-196						14.30	0.40
	599	82-197						15.50	0.40
	600	83-37						7.63	0.27
	601	83-34						4.88	0.13
	602	83-170						5.95	0.20
	603	83-130						6.74	0.23
	604	83-119						8.17	0.33
	605	83-158						7.95	0.32
STATION 25	609	82-83						7.80	0.26
	612	82-25						14.00	0.40
	613	82-67						21.60	0.70
	614	82-153						14.50	0.40
	615	82-152						14.90	0.40
	616	83-89						8.68	0.28
	617	83-53						5.40	0.30
	618	83-134						7.30	0.25
	619	83-139						9.64	0.34
	620	83-142						8.19	0.32
	621	83-190						6.31	0.23
STATION 26	628	82-91						7.93	0.26
	629	82-98						16.70	0.50
	631	82-71						15.30	0.40
	632	82-39						23.50	1.00
	633	82-116						14.60	0.40
	634	82-108						13.40	0.40
	635	83-3						8.54	0.25
	636	83-70						5.42	0.19
	637	83-163						7.15	0.35
	638	83-177						8.93	0.32
	639	83-171						7.12	0.23
	640	83-167						7.55	0.30
	641	83-131						6.25	0.26

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
299-E16-1	1	SITE-161									
	2	SITE-162									
	3	SITE-163									
	4	SITE-164									
299-E26-8	5	SITE-166									
	6	SITE-167									
	7	SITE-168									
299-E33-12	8	SITE-170									
	9	SITE-171									
	10	SITE-172									
699-42-40C	11	SITE-177									
	12	SITE-178									
	13	SITE-179									
	14	SITE-180									
	15	SITE-176									
699-47-50	16	SITE-205									
	17	SITE-181									
699-49-55B	18	SITE-183									
	19	SITE-184									
	20	SITE-185									
699-50-45	21	SITE-203									
	22	SITE-186									
699-50-48	23	SITE-204									
	24	SITE-187									
699-51-46	25	SITE-201									
	26	SITE-188									
699-52-46A	27	SITE-202									
	28	SITE-189									
699-52-48	29	SITE-199									
	30	SITE-190									
699-53-50	31	SITE-200									
	32	SITE-191									
699-54-57	33	SITE-192									
699-56-53	34	SITE-196									
	35	SITE-197									
DB-01	36	CP73									

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
DB-01	37	CP179									
	38	81-19									
	39	81-65									
	40	82-27	0.007	0.000100		0.007300		8.30	0.20	106.00	2.00
	40	82-87									
DB-02	45	CP181									
	46	81-13									
	47	81-10	0.042	0.000120	0.000007	0.007210	0.000070				
DB-04	49	CP75									
DB-05	52	CP76									
DB-07	58	CP183									
	59	83-413									
DB-09	62	CP78									
	65	CP177									
	66	83-472									
DB-10	68	CP185									
DB-12	81	81-25	0.004	0.000088	0.000007	0.007100	0.000200				
DB-13	86	CP91									
	87	CP92									
	91	80-159									
	92	83-404									
DB-14	93	CP93									
	95	CP99									
	99	CP103									
	101	81-139									
	101	81-162									
DB-15	102	79-17	5.624	0.000072	0.000006						
	102	79-22									
	103	79-20									
	103	79-35	0.024	0.000103	0.000013						
	104	79-27	0.041	0.000061	0.000089						
	104	79-33	0.052	0.000079	0.000018						
	105	79-15	0.085	0.000084	0.000047						
	105	79-38									
	106	79-39	0.581	0.000084	0.000007						
	106	79-8	0.673	0.000078	0.000011						
	107	79-31	0.241	0.000077	0.000008						
	107	79-5									
	109	79-51	0.226	0.000074	0.000006						
	110	79-66									

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL.	CL36/CL. RANGE
DB-15	110	79-74									
	110	79-85	0.851	0.000059	0.000003						
	111	79-80	0.400	0.000056	0.000004						
	112	79-62									
	113	79-86									
	114	80-35									
	114	80-41									
	115	80-24									
	116	80-77									
	116	80-92									
	117	80-1									
	117	80-51									
DC-01	118	SITE-230									
	120	SITE-227									
	121	SITE-228									
	123	SITE-231									
	124	SITE-232									
	125	SITE-233									
	126	SITE-234									
	127	SITE-235									
	128	SITE-236									
	129	SITE-237									
	130	SITE-238									
	131	SITE-239									
	132	SITE-240									
	133	SITE-241									
	134	SITE-242									
DC-02A	137	SITE-213									
DC-05	139	79-30	0.773								
DC-06	142	SITE-214									
	143	80-238	0.004					19.50	1.10	70.00	4.00
	144	80-186									
	144	80-191	0.002					23.40	2.40	48.00	5.00
	147	81-26	0.003	0.000041	0.000010						
	147	81-45						3.70	0.40	15.00	2.00
	148	80-118	0.001					64.80	1.30	40.00	3.00
	149	80-15	0.004					< 3.70		< 7.00	
	150	81-82						22.50	1.10	42.00	2.00
	151	80-29	0.002					3.20	1.10	17.00	6.00
	152	79-57	0.444	0.000122	0.000056						
	152	79-58									
	152	79-91									
	153	80-18									
	153	80-75	0.001					3.40	1.10	24.00	8.00
DC-07	154	82-23	0.090	0.000071	0.000003	0.007290	0.000050				

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM -234/238 234/238	RANGE	URANIUM -235/238 235/238	RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
DC-07	155	82-10	0.059	0.000067	0.000005	0.007300	0.000350				
	159	80-103									
	159	80-163									
	161	80-196									
DC-12	162	80-62									
	162	80-80	0.073	0.000185	0.000016	0.007320	0.000080				
	163	80-100	0.007	0.000173	0.000009	0.007280	0.000140	23.60	1.50	160.00	10.00
	163	80-63									
	164	80-73									
	164	80-97	0.009	0.000166	0.000006	0.007250	0.000090	5.30	0.40	22.00	1.00
	165	80-32	0.170	0.000115	0.000002	0.007260	0.000060				
	165	80-79									
	166	80-82	0.550	0.000059	0.000002	0.007240	0.000040				
	167	80-124	0.190	0.000063	0.000003	0.007310	0.000030				
	169	80-174	0.039	0.000077	0.000003	0.007310	0.000040				
	170	80-209	0.011	0.000078	0.000020	0.007490	0.000150				
	172	80-234	0.460	0.000049	0.000001	0.007280	0.000050				
	173	81-61									
	174	82-85	0.018	0.000040		0.007300		3.80	0.30	18.00	1.00
DC-14	175	80-3	0.460	0.000153	0.000004	0.007270	0.000030				
	176	80-53	0.320	0.000130	0.000004	0.007260	0.000050	4.01	0.14	1130.00	40.00
	177	80-47	0.880	0.000110	0.000003	0.007250	0.000030				
	178	80-69	0.012	0.000130	0.000004	0.007190	0.000050				
	178	80-83									
	179	80-99									
	180	80-36									
	180	80-89									
	181	80-71	0.740	0.000098	0.000006	0.007270	0.000100	7.10	0.20	331.00	10.00
	182	80-144									
	183	80-127									
	183	80-189	0.140	0.000180	0.000007	0.007220	0.000060				
	184	80-111									
	184	80-112	0.011	0.000180	0.000019	0.007230	0.000050	4.07	0.26	940.00	60.00
	184	80-168									
	185	80-183									
	186	80-145									
	186	80-155	0.107	0.000181	0.000010	0.007350	0.000120				
	187	80-104	0.320	0.000187	0.000003	0.007300	0.000050				
	188	80-129	0.082	0.000188	0.000003	0.000728	0.000030				
	189	80-170	0.013	0.000190	0.000015	0.007340	0.000130				
	190	80-117	0.013	0.000179	0.000018	0.007320	0.000110	59.70	1.80	451.00	14.00
	191	80-213	0.121	0.000106	0.000004	0.007280	0.000040	6.30	0.20	57.00	1.00
	192	81-20	0.180	0.000189	0.000005	0.007280	0.000040	15.10	1.70	50.00	6.00
	193	81-18									
	193	81-30	0.010	0.000160	0.000020	0.007200	0.000200	6.12	2.50	17.00	7.00
	194	81-44	0.025	0.000164	0.000010	0.007200	0.000200				
	195	81-141									
	196	81-21									

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
DC-14	197	81-99									
	199	81-138						21.60	1.70	52.00	4.00
	199	81-188									
	200	82-8	0.003					4.50	0.70	10.00	2.00
	202	83-156									
	203	83-152									
	204	83-157									
	205	83-178									
	206	83-183									
	207	83-154									
	208	83-150									
	209	83-266									
	210	83-261									
DC-15	211	80-31									
	211	80-56	0.008								
	212	80-54	0.036	0.000094	0.000008	0.007260	0.000200	7.90	0.60	360.00	30.00
	212	80-76									
	213	80-57	0.005								
	214	80-87	0.029	0.000081	0.000004	0.007290	0.000070	14.20	0.10	380.00	30.00
	215	80-137	0.097	0.000081	0.000008	0.007240	0.000070	4.00	0.20	99.00	4.00
	216	80-176	0.013	0.000147	0.000005	0.007360	0.000040	13.10	0.80	140.00	9.00
	217	80-135	0.055	0.000124	0.000004	0.007300	0.000030				
	218	80-120	0.063	0.000133	0.000003	0.007300	0.000040				
	218	80-139									
	219	80-108									
	219	80-131	0.051	0.000147	0.000004	0.007270	0.000040	7.00	0.30	53.00	2.00
	220	80-193	0.051	0.000133	0.000003	0.007280	0.000050	5.40	0.30	31.00	2.00
	221	81-41	0.110	0.000138	0.000004	0.007240	0.000050	15.70	2.20	63.00	9.00
	222	81-2	1.080	0.000060	0.000002	0.007270	0.000030				
	224	81-33	0.013	0.000126	0.000010	0.007050	0.000200				
	224	81-37									
	225	81-27	0.054	0.000143	0.000010	0.007100	0.000150	53.60	2.90	166.00	9.00
	226	81-64						41.00	2.40	50.00	3.00
	227	81-96									
	228	81-69						2.50	0.50	7.00	1.00
	229	82-94	0.053	0.000072	0.000002	0.007170	0.000050				
DC-16A	230	81-109	0.137	0.000134	0.000002	0.007280	0.000050				
	231	82-17	0.019	0.000120		0.007300					
	232	82-93	0.064	0.000160	0.000006	0.007290	0.000060				
	233	82-19	0.041	0.000165	0.000004	0.007320	0.000050	11.00	0.80	45.00	3.00
	234	82-188	0.014	0.000135	0.000007	0.007270	0.000100				
	235	82-124	0.014	0.000132	0.000002	0.007300	0.000100				
	236	82-143	0.037	0.000163	0.000003	0.007270	0.000070				
	237	82-202	0.017	0.000132	0.000002	0.007280	0.000150	7.60	1.10	15.00	2.00
	239	82-322	0.010	0.000121	0.000002	0.007310	0.000060	5.20	0.80	7.00	1.00
	240	82-332	0.008	0.000108	0.000002	0.007280	0.000050				
	242	82-430	0.029	0.000159	0.000001	0.007270	0.000040				
	243	83-29	0.008	0.000094	0.000004	0.007300	0.000060				

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
DC-16B	244	83-147									
DC-16C	245	83-100									
DC-19C	247	84-83									
	248	84-40									
	249	84-75									
	250	84-86									
DC-20C	251	84-9									
DC-22C	252	84-105									
	252	84-153									
ENYEART	255	84-166									
FORD	257	SITE-206									
	259	SITE-219									
MCGEE	262	SITE-223									
	264	SITE-220									
	265	82-7	< 0.003								
	266	80-64									
	266	80-88									
	267	81-79						4.60	0.10	677.00	17.00
	268	81-84	0.030	0.000094				15.40	0.40	695.00	21.00
	269	82-64	0.003								
	271	82-263	0.002								
	272	82-397	0.003								
	273	82-424	0.002								
	274	82-436	0.003								
	275	83-32	0.002								
	276	83-83	0.013	0.000132	0.000002	0.007260	0.000040				
	277	83-188	0.002								
	278	83-373									
	279	83-331									
	280	83-460	0.007	0.000047	0.000004	0.007280	0.000090				
	281	83-476	0.019	0.000155	0.000002	0.007230	0.000070				
	282	83-513									
	283	84-24									
RRL-02	284	82-68	0.018	0.000113	0.000004	0.007300	0.000080				
	285	82-65	0.012	0.000150	0.000001	0.007300	0.000100				
	286	82-170	0.055	0.000084	0.000001	0.007300	0.000030				
	287	82-122	0.003					8.10	1.50	9.00	2.00
	288	82-401	0.011	0.000066	0.000002	0.007280	0.000060				
	289	84-7									
	290	82-364	0.008	0.000050	0.000002	0.007380	0.000100	8.50	1.10	11.00	1.00
	292	82-456	0.004								

RADIOACTIVE ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
811-E12A	298	80-61									

RADIOACTIVE ISOTOPES FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
299-E26-8	307	SITE-165									
299-E33-12	308	SITE-169									
699-37-43	377	SITE-173									
699-42-40A	390	SITE-174									
699-47-55A	399	SITE-182									
699-55-50C	420	SITE-193									
699-60-57	430	SITE-198									

RADIOACTIVE ISOTOPES FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
BENNETT SPRING	471	SITE-218									
	472	79-13	0.392	0.000145	0.000023						
BENSON SPRING	473	SITE-217									
BUTLER SPRING	474	79-1	0.344	0.000145	0.000022						
JUNIPER SPRING	476	SITE-215									
	477	79-2	0.096	0.000061	0.000035						
	478	81-115									
	478	81-161		0.000120		0.007300	0.000050	3.40	1.10	24.00	8.00
	479	83-372									
LOWER SNIVELY SPRING	480	79-19									
	480	79-34	0.455	0.000100	0.000008						
	481	82-362	0.350	0.000102	0.000001	0.007240	0.000030				
	482	83-396									
LOZIER SPRING	483	79-44									
	484	81-186									
	485	83-316									
MAIDEN SPRING	486	79-96	0.580								
	487	83-420									
OBSERVATORY SPRING	488	84-392									
	490	81-119									
	491	83-492									
RAILROAD SPRING	492	79-76	0.119	0.000109	0.000010						
RATTLESNAKE SPRING	493	SITE-214									
	495	83-412									
SNIVELY SPRING	496	79-49	0.448	0.000098	0.000009						
SULPHUR SPRINGS	497	79-29	0.744	0.000101	0.000013						
	498	83-409									
UNNAMED SPRING #02	499	79-70									
UNNAMED SPRING #16	500	79-82	0.580								
UNNAMED SPRING #26	501	79-98	0.094	0.000081	0.000012						
UNNAMED SPRING #29	502	79-16	1.772	0.000083	0.000006						
UPPER SNIVELY SPRING	504	81-126	0.417	0.000112	0.000002	0.007250	0.000050				
	505	83-503									

RADIOACTIVE ISOTOPES FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
WARM SPRING	506	84-398									

RADIOACTIVE ISOTOPES FOR SURFACE

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
COL RIV @ HANFORD TB	507	SITE-221									
COL RIV @ VERNITA BR	509	84-311									
COL RIVER @ DC-14	510	83-258									
COL RIVER @ DC-15	512	81-1									
COLD CREEK	514	84-302									

RADIOACTIVE ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
STATION 03	516	82-51									
	517	82-81									
	518	82-78									
	519	82-179									
	520	82-138									
	521	83-90									
	522	83-46									
	523	83-118									
	524	83-132									
	525	83-189									
STATION 04	530	82-61									
	531	82-60									
	532	82-90									
	533	82-120									
	534	82-117									
	535	83-36									
	536	83-84									
	537	83-141									
	538	83-116									
	539	83-110									
	540	83-185									
	541	83-102									
STATION 07	546	82-92									
	547	82-97									
	548	82-44									
	549	82-136									
	550	82-185									
	551	83-43									
	552	83-23									
	553	83-187									
	554	83-148									
	555	83-169									
STATION 14	560	82-20									
	561	82-63									
	562	82-86									
	563	82-178									
	564	82-147									
	565	83-71									
	566	83-55									
	567	83-184									
	568	83-160									
	569	83-174									
STATION 17	576	82-70									
	577	82-80									
	578	82-100									
	579	82-118									

RADIOACTIVE ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	TOTAL URANIUM	URANIUM 234/238	-234/238 RANGE	URANIUM 235/238	-235/238 RANGE	CL-36	CL-36 RANGE	CL36 /CL	CL36/CL RANGE
STATION 17	580	82-134									
	581	83-11									
	582	83-86									
	583	83-120									
	584	83-199									
	585	83-182									
	586	83-126									
STATION 19	589	83-159									
STATION 20	593	82-58									
	594	82-74									
	596	82-1									
	597	82-96									
	598	82-196									
	599	82-197									
	600	83-37									
	601	83-34									
	602	83-170									
	603	83-130									
	604	83-119									
	605	83-158									
STATION 25	609	82-83									
	612	82-25									
	613	82-67									
	614	82-153									
	615	82-152									
	616	83-89									
	617	83-53									
	618	83-134									
	619	83-139									
	620	83-142									
	621	83-190									
STATION 26	628	82-91									
	629	82-98									
	631	82-71									
	632	82-39									
	633	82-116									
	634	82-108									
	635	83-3									
	636	83-70									
	637	83-163									
	638	83-177									
	639	83-171									
	640	83-167									
	641	83-131									

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
299-E16-1	1	SITE-161				-142.00	-16.60	
	2	SITE-162				-142.00	-16.80	
	3	SITE-163				-143.00	-16.90	
	4	SITE-164				-140.00	-16.20	7.40
299-E26-8	5	SITE-166				-141.00	-17.30	7.40
	6	SITE-167				-142.00	-17.30	7.40
	7	SITE-168				-142.00	-17.30	0.50
299-E33-12	8	SITE-170				-147.00	-18.40	0.50
	9	SITE-171				-151.00	-18.30	
	10	SITE-172				-152.00	-18.30	6.20
699-42-40C	11	SITE-177				-156.00	-18.70	
	12	SITE-178				-156.00	-18.60	
	13	SITE-179				-156.00	-18.40	3.30
	15	SITE-176				-150.00	-18.50	2.70
699-47-50	16	SITE-205				-139.00	-17.00	
	17	SITE-181				-142.00	-16.80	-1.40
699-49-55B	18	SITE-183				-148.00	-17.90	
	19	SITE-184				-148.00	-17.80	
	20	SITE-185				-145.00	-17.60	2.80
699-50-45	21	SITE-203				-136.00	-17.00	
	22	SITE-186				-146.00	-17.00	0.80
699-50-48	23	SITE-204				-149.00	-17.90	
	24	SITE-187				-144.00	-16.80	-1.20
699-51-46	25	SITE-201				-139.00	-18.60	
	26	SITE-188				-144.00	-16.50	1.50
699-52-46A	27	SITE-202				-137.00	-17.00	
	28	SITE-189				-146.00	-16.90	0.50
699-52-48	29	SITE-199				-145.00	-16.90	
	30	SITE-190				-149.00	-17.80	-0.70
699-53-50	31	SITE-200				-141.00	-16.40	
	32	SITE-191				-147.00	-17.30	-0.10
699-54-57	33	SITE-192				-149.00	-17.80	-0.10
699-56-53	34	SITE-196				-148.00	-17.60	
	35	SITE-197				-148.00	-17.20	3.60
DB-01	36	CP73					-17.00	
	37	CP179				-144.00	-17.90	

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
DB-01	38	81-19			3.40	-147.00	-17.50	
	39	81-65			-18.30	-138.00	-17.30	20.50
	40	82-27			-18.40	-141.00	-17.40	17.00
	40	82-87			-18.20			21.60
DB-02	44	79-65				-148.00	-17.00	
	45	CP181				-143.00	-17.60	
	46	81-13			-16.10	-143.00	-16.80	2.70
	47	81-10			-15.40	-143.00	-17.00	8.00
DB-04	49	CP75					-17.20	
	50	79-77				-159.00	-17.00	
DB-05	52	CP76					-17.50	
DB-07	57	79-89				-146.00	-16.40	
	58	CP183				-142.00	-17.20	
	59	83-413			6.60	-138.00	-16.70	
DB-09	62	CP78					-17.40	
	64	79-28				-152.00	-17.60	
	65	CP177				-145.00	-18.30	
	66	83-472			-12.40	-145.00	-17.70	
DB-10	68	CP185				-150.00	-18.40	
DB-12	81	81-25			-13.60	-153.00	-18.80	
DB-13	86	CP91					-17.60	
	87	CP92					-18.60	
	91	80-159			-13.40			
	92	83-404			-13.10	-144.00	-17.50	
DB-14	93	CP93					-16.10	
	95	CP99					-17.80	
	99	CP103					-18.20	
	101	81-139			11.30			
	101	81-162			11.40	-134.00	-16.40	11.00
DB-15	102	79-17			-13.10	-152.00	-17.20	-10.30
	102	79-22				-146.00	-17.10	
	102	79-4				-150.00	-17.10	
	103	79-20				-146.00	-17.60	
	103	79-35			-23.80	-150.00	-17.90	
	104	79-27				-152.00	-17.80	
	104	79-33			-15.50	-155.00	-17.80	
	105	79-15			-8.40	-150.00	-17.20	23.70
	105	79-38					-17.50	
	105	79-46					-17.50	
	106	79-39			-6.50	-151.00	-17.30	

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
DB-15	106	79-8			-6.50	-147.00	-17.10	0.60
	107	79-31			-3.90	-151.00	-17.20	3.50
	108	79-25				149.00	-17.50	
	109	79-51			10.40	-135.00	-14.60	3.20
	109	79-61			1.50	-131.00	-14.80	1.80
	109	79-92				-133.00	-15.00	
	110	79-85			8.20	-135.00	-14.90	2.30
	111	79-68				-127.00	-15.00	
	111	79-80			15.90	-132.00	-14.80	
	112	79-62			17.40	-131.00	-15.10	
	113	79-90				-130.00	-15.40	
	114	80-35			16.00	-131.00	-14.90	3.30
	114	80-41					-15.10	
	115	80-24			11.60	-132.00	-15.20	
	115	80-74					-15.00	
	116	80-77			13.30	-132.00	-15.40	-3.00
	117	80-1			11.60	-129.00	-15.10	
	117	80-30				-132.00		
DC-01	118	SITE-230			-13.30	-145.00	-17.20	
	119	SITE-226			-14.00			
	120	SITE-227			-2.90			
	122	SITE-229			2.00			
	123	SITE-231			-14.20	-145.00	-17.20	
	124	SITE-232			-14.30	-154.00	-18.30	
	125	SITE-233			-10.50	-150.00	-17.70	
	126	SITE-234			-4.00	-142.00	-16.90	
	127	SITE-235			15.40	-138.00	-15.50	
	128	SITE-236			13.20	-136.00	-15.60	
	129	SITE-237			1.40	-139.00	-15.90	
	130	SITE-238			-12.60	-151.00	-17.80	
	131	SITE-239			-7.00	-138.00	-16.00	
	132	SITE-240			-7.60	-148.00	-15.90	
	133	SITE-241			-7.30	-138.00	-15.90	
	134	SITE-242			-7.00	-138.00		
DC-02A	137	SITE-213			-10.47	-132.50	-16.35	1.96
DC-05	139	79-11				-120.00		
	139	79-30			-6.00	-132.00	-14.20	
DC-06	140	80-161				-115.00	-13.90	
	142	SITE-214			-19.20	-124.60	-15.00	-2.12
	143	80-238			-21.40	-131.00	-15.10	-6.20
	144	80-186				-115.00	-13.90	
	144	80-191			-18.00	-114.00	-13.90	15.00
	147	81-45			-15.80	-128.00	-14.10	5.00
	148	80-118			-21.30	-110.00	-13.50	4.70
	149	80-15				-120.00	-13.40	3.60
	150	81-82				-125.00	-14.50	

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
DC-06	151	80-29			-23.80	-125.00	-14.50	-6.10
	151	80-37					-14.30	
	152	79-57			-23.30	-125.00	-14.30	-1.70
	152	79-58			-23.20	-135.00	-14.40	0.10
	153	80-45			-21.50			-13.20
	153	80-75			-21.70			
DC-07	154	82-23			-23.00	-122.00	-14.50	2.10
	155	82-10				-126.00	-14.30	
	159	80-103			-22.90	-121.00	-13.00	
	161	80-177				-105.00		
	161	80-196			-23.10	-106.00	-12.70	2.10
DC-12	162	80-17				-139.00		
	162	80-80			12.80	-133.00	-15.80	
	163	80-100			15.20	-134.00	-15.80	
	163	80-63	-44.000					
	164	80-97	-43.700		14.80	-136.00	-15.90	
	165	80-32			8.00	-133.00	-15.60	
	166	80-82	-45.500		12.80	-134.00	-15.60	
	167	80-124	-44.200		15.20	-140.00	-16.80	
	169	80-143				-135.00		
	169	80-174			-24.80	-132.00	-16.40	
	170	80-209			3.60	-135.00	-16.20	
	172	80-234			2.50	-136.00	-16.10	10.30
	173	81-61			20.70	-136.00	-16.40	
	174	82-85			20.60	-139.00	-16.30	8.50
DC-14	175	80-3			-11.60	-147.00	-18.40	-4.20
	175	80-34				-150.00		
	176	80-53			-11.00	-154.00	-19.20	
	176	80-95				-156.00		
	177	80-47			-11.60	-155.00	-19.30	5.90
	177	80-85					-19.10	
	178	80-69			-12.80	-150.00	-17.80	13.50
	179	80-99			-12.70	-151.00	-17.90	8.80
	180	80-89			-12.60	-149.00	-17.80	
	181	80-71			-11.40	-148.00	-18.00	10.60
	182	80-136					-19.10	
	182	80-144			-12.20	-152.00	-19.60	7.90
	183	80-127				-155.00		
	183	80-189			-12.10	-151.00	-19.60	9.50
	184	80-112			-12.20	-151.00	-19.50	
	185	80-183			-12.80	-151.00	-19.20	11.90
	186	80-155			-12.40	-149.00	-19.40	2.80
	187	80-104			-12.30		-19.40	9.80
	187	80-125				-151.00		
	187	80-148			-12.30		-20.40	
	188	80-115				-151.00		
	188	80-129			-12.50	-153.00	-18.80	13.50

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
DC-14	189	80-156				-152.00		
	189	80-170			-12.70		-19.40	13.60
	190	80-117			-12.90	-148.00	-18.60	7.80
	191	80-213			-19.70	-136.00	-16.00	11.00
	191	80-236				-136.00	-16.00	
	192	81-20			-16.20	-127.00	-14.80	6.90
	193	81-30			-17.30	-114.00	-13.10	2.70
	194	81-44			-19.90	-121.00	-14.10	1.80
	195	81-141			-22.00			8.50
	196	81-21			-13.90	-145.00	-17.70	1.00
	199	81-138			-19.70	-120.00	-14.40	12.20
	199	81-188			-19.60			8.00
	200	82-8			-21.80	-115.00	-14.00	10.10
	202	83-156			-23.60	-113.00	-14.30	
	203	83-152			-22.90	-111.00	-14.20	
	204	83-157			-22.20	-113.00	-14.20	
	205	83-178			-23.40	-112.00	-13.90	
	206	83-183			-23.30	-113.00	-14.10	
	207	83-154				-113.00	-14.20	
	208	83-150				-114.00	-14.00	
	209	83-266				-115.00	-14.00	
	210	83-261				-114.00	-14.00	
DC-15	211	80-56			-13.30	-145.00	-17.30	
	212	80-54			-16.20	-145.00	-17.40	
	213	80-57	-63.600		4.10	-141.00	-17.10	
	214	80-87	-46.500		14.50	-138.00	-16.80	
	215	80-137	-67.100		0.30	-136.00	-17.20	
	216	80-176	-76.500	-264.700		-139.00	-17.10	
	217	80-135	-69.900	-255.300	-9.40	-137.00	-17.50	-1.70
	217	80-149					-17.20	
	218	80-120	-88.200	-264.100	-5.20	-137.00	-17.40	
	219	80-108			-17.40		-17.30	29.70
	219	80-131			-17.00	-137.00	-16.50	33.80
	220	80-193			-22.10	-139.00	-17.40	
	221	81-41			-25.50	-122.00	-14.20	1.90
	222	81-2			-31.30	-124.00	-14.50	7.40
	224	81-33			-20.40	-123.00	-13.00	-3.50
	225	81-27			-31.50	-114.00	-13.50	4.00
	226	81-64			-28.80	-111.00	-13.30	-6.00
	227	81-96				-111.00	-13.40	
	228	81-69			-28.40	-110.00	-13.40	-8.20
	229	82-62				-121.00	-13.70	
	229	82-94			-30.70	-124.00	-18.10	-16.00
DC-16A	230	81-109			-11.10	-142.00	-17.90	-1.20
	231	82-17			-14.30	-146.00	-18.00	33.10
	231	82-55				-141.00	-18.20	
	232	82-93			-11.80	-145.00	-18.30	8.60
	233	82-19			9.40	-138.00	-16.40	7.90

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
DC-16A	234	82-188			10.70	-136.00	-16.00	
	235	82-124			-2.70	-137.00	-16.40	8.90
	235	82-139	-63.990					
	236	82-143			5.40	-123.00	-14.80	9.30
	237	82-202			3.80	-124.00	-14.40	8.50
	239	82-322				-110.00	-12.10	
	240	82-332	-63.040			-114.00	-12.00	
	242	82-430			5.10	-114.00	-11.50	11.20
	242	82-473	-44.790					
	243	83-20	-47.780					
	243	83-29				-105.00	-11.80	
	243	83-54	-47.780					
DC-16B	244	83-147				-139.00	-18.50	
DC-19C	247	84-53			0.00	-128.00	-15.20	-6.10
	248	84-40			-4.10	-129.00	-15.50	6.00
	249	84-75			2.70	-121.00	-14.70	6.40
	250	84-86			10.00	-130.00	-15.10	3.90
DC-20C	251	84-9			1.30	-128.00	-15.80	5.20
DC-22C	252	84-105			7.30	-133.00	-16.50	9.80
	252	84-153				-130.00	-16.50	
ENYEART	255	84-166			-12.30	-138.00	-16.90	
FORD	259	BITE-219			-6.31	-136.20	-18.00	-0.47
MCGEE	264	BITE-220			-14.51	-139.20	-18.05	-0.47
	265	82-7			-11.20	-146.00	-17.90	
	266	80-64	-51.600		-11.20	-142.00	-17.30	
	267	81-79			-11.30	-139.00	-18.40	-0.30
	268	81-54			-11.50	-142.00	-18.30	
	269	82-64			-11.10	-140.00	-18.00	
	271	82-263			-11.10	-144.00	-17.90	
	272	82-397			-11.40	-144.00	-17.90	
	273	82-424			-11.60	-146.00	-18.00	
	274	82-436			-11.50	-148.00	-18.00	
	275	83-32			-11.20	-145.00	-18.40	
	276	83-83			-11.50	-146.00	-18.30	
	277	83-188				-145.00	-18.80	
	278	83-373			-4.90	-144.00	-17.70	
	279	83-331			-4.10	-143.00	-17.40	
	280	83-460			-4.20	-142.00	-17.30	
	281	83-476			-4.50	-142.00	-17.60	
	282	83-513				-144.00	-17.50	
	283	84-24			-10.70	-145.00	-17.40	
RRL-02	284	82-68				-134.00	-17.00	

STABLE-ISOTOPES FOR CONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
RRL-02	285	82-65			8.50	-136.00	-16.00	
	286	82-170			-0.30	-120.00	-13.20	2.50
	287	82-122			15.40	-114.00	-11.50	1.80
	288	82-401			15.30	-116.00	-11.60	7.80
	289	84-7			19.70	-111.00	-10.80	11.20
	290	82-364			16.90	-110.00	-11.20	2.10
	291	82-351	-38.350					
	292	82-456	-38.280		16.40	-114.00	-11.10	5.80
RRL-14	294	82-403	-44.060					
	297	83-96	-47.890					
S11-E12A	298	80-14				-145.00		
	298	80-61			-13.70	-145.00	-17.10	
	298	80-7				-145.00	-16.90	

STABLE-ISOTOPES FOR UNCONFINED

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
299-E26-8	307	SITE-165				-139.00	-16.90	2.20
299-E33-12	308	SITE-169				-139.00	-17.10	3.40
699-37-43	377	SITE-173				-143.00	-17.00	-9.10
699-42-40A	390	SITE-174				-142.00	-16.70	3.00
699-47-55A	399	SITE-182				-144.00	-17.00	-1.50
699-55-50C	420	SITE-193				-138.00	-16.50	7.90
699-60-57	430	SITE-198				-143.00	-17.20	7.90
RRL-06A	470	82-40				-127.00	-16.60	

STABLE-ISOTOPES FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
BENNETT SPRING	471	SITE-218			-5.70	-121.10	-15.75	-0.47
	472	79-13			-14.20	-128.00	-15.00	6.20
	472	79-7				-121.00		
BENSON SPRING	473	SITE-217				-126.20	-16.40	-1.49
BUTLER SPRING	474	79-1			-14.60	-132.00	-15.00	-0.10
	474	79-50				-137.00	-18.50	
JUNIPER SPRING	476	SITE-215				-132.70	-16.75	8.67
	477	79-12				-133.00		
	477	79-2			-15.90	-139.00	-16.20	12.90
	478	81-115			-14.90	-135.00	-16.90	0.90
	479	83-372			-16.00	-135.00	16.60	9.50
LOWER SNIVELY SPRING	480	79-34			-13.70	-134.00	-15.40	-3.00
	480	79-41					-16.30	
	481	82-362			-12.10	-129.00	-16.10	
	482	83-396			-13.50	-127.00	-15.60	-5.00
LOZIER SPRING	483	79-26					-15.10	
	483	79-44				-127.00	-15.10	
	483	79-6			-11.90	-132.00	-15.30	4.80
	484	81-186			-12.30	-129.00	-15.70	3.50
	485	83-316			-14.60	-127.00	-15.40	4.10
MAIDEN SPRING	486	79-100					-16.60	
	486	79-67				-122.00	-15.40	
	486	79-96			-13.60		-16.50	
	487	83-420				-125.00	-15.70	
OBSERVATORY SPRING	488	84-392			-12.00	-113.00	-14.10	
	490	81-119			-11.60	-118.00	-14.40	-3.10
	491	83-433			-13.70	-116.00	-13.70	
RAILROAD SPRING	492	79-60				-120.00		
	492	79-76			-13.00	-124.00	-14.90	
RATTLESNAKE SPRING	493	SITE-216				-128.50	-16.40	-1.64
	494	79-87				-127.00		
	494	79-88			-13.20		-15.20	4.30
SNIVELY SPRING	496	79-23				-136.00	-15.80	
	496	79-37						-1.20
	496	79-49			-14.10			
SULPHUR SPRINGS	497	79-29			-13.70	-134.00	-15.30	4.00
	498	83-409				-127.00	-15.70	
UNNAMED SPRING #02	499	79-75			-10.90	-126.00	-13.60	3.40

STABLE-ISOTOPES FOR SPRINGS

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
UNNAMED SPRING #16	500	79-73				-127.00	-15.30	
	500	79-82			-14.50			
	500	79-94					-16.30	
UNNAMED SPRING #26	501	79-54			-15.70			12.10
	501	79-98					-14.90	
UNNAMED SPRING #29	502	79-16			-12.60	-136.00	-16.80	0.50
	502	79-48					-16.20	
UPPER SNIVELY SPRING	503	79-71			-10.90		-16.10	2.90
	504	81-126			-10.50	-129.00	-17.00	-0.80
	505	83-503				-135.00	-17.10	

STABLE-ISOTOPES FOR SURFACE

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
COL RIV @ HANFORD TS	507	SITE-221				-128.10	-16.60	2.73
COL RIV @ VERNITA BR	509	84-311			-7.50	-129.00	-16.40	
COL RIVER @ DC-14	510	83-298				-130.00	-17.70	
COLD CREEK	514	84-302			-11.20	-119.00	-15.00	

STABLE-ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
STATION 03	515	82-89				-141.00	-18.40	
	516	82-51				-90.00	-9.70	
	517	82-81				-85.00	-9.30	
	518	82-78				-102.00	-13.00	
	519	82-179				-110.00	-10.50	
	520	82-138				-99.00	-9.90	
	521	83-90				-90.00	-10.10	
	522	83-46				-225.00	-29.00	
	523	83-118				-145.00	-19.00	
	524	83-132				-142.00	-18.20	
	525	83-189				-139.00	-17.90	
	526	83-114				-107.00	-13.10	
	527	83-143				-119.00	-14.80	
	528	83-277				-85.00	-9.80	
STATION 04	529	82-15				-139.00	-17.90	
	530	82-61				-102.00	-11.50	
	531	82-60				-94.00	-11.20	
	532	82-90				-102.00	-13.40	
	533	82-120				-101.00	-11.80	
	534	82-117				-111.00	-12.10	
	535	83-36				-102.00	-12.10	
	536	83-84				-233.00	-30.30	
	537	83-141				-152.00	-19.30	
	538	83-116				-121.00	-15.70	
	539	83-110				-107.00	-14.20	
	540	83-155				-137.00	-18.80	
	541	83-102				-120.00	-15.00	
	542	83-165				-109.00	-13.60	
	543	83-180				-110.00	-13.60	
	544	83-250				-100.00	-12.20	
STATION 07	545	82-46				-138.00	-18.10	
	546	82-92				-90.00	-10.40	
	547	82-57				-91.00	-9.70	
	548	82-44				-92.00	-12.50	
	549	82-136				-105.00	-11.00	
	550	82-185				-104.00	-10.60	
	551	83-43				-95.00	-10.40	
	552	83-23				-226.00	-29.60	
	553	83-187				-157.00	-19.60	
	554	83-148				-107.00	-14.00	
	555	83-169				-131.00	-16.90	
	556	83-181				-107.00	-12.10	
	557	83-124				-109.00	-14.00	
	558	83-208				-95.00	-11.40	
STATION 14	559	82-38				-135.00	-18.40	
	560	82-20				-92.00	-10.30	
	561	82-63				-100.00	-11.00	

STABLE-ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
STATION 14	562	82-86				-86.00	-10.90	
	563	82-178				-107.00	-11.50	
	564	82-147				-99.00	-10.00	
	565	83-71				-65.00	-6.50	
	566	83-55				-236.00	-29.70	
	567	83-184				-107.00	-13.90	
	568	83-160				-128.00	-17.30	
	569	83-174				-119.00	-15.60	
	570	83-128				-100.00	-12.20	
	571	83-149				-102.00	-12.90	
	572	83-295				-101.00	-11.80	
STATION 17	573	82-99				-134.00	-17.80	
	574	82-53				-127.00	-16.60	
	575	82-95				-112.00	-14.10	
	576	82-70				-88.00	-10.10	
	577	82-80				-102.00	-13.40	
	578	82-100				-93.00	-12.60	
	579	82-118				-116.00	-14.70	
	580	82-134				-109.00	-13.20	
	581	83-11				-99.00	-11.70	
	582	83-86				-242.00	-31.30	
	583	83-120				-120.00	-15.80	
	584	83-199				-109.00	-14.80	
	585	83-182				-134.00	-18.00	
	586	83-126				-115.00	-15.40	
	587	83-162				-111.00	-14.40	
	588	83-256				-116.00	-15.30	
STATION 19	589	83-159				-151.00	-19.80	
STATION 20	590	82-50				-133.00	-17.80	
	591	82-16				-141.00	-18.70	
	592	82-26				-121.00	-15.90	
	593	82-58				-86.00	-10.30	
	594	82-74				-103.00	-12.00	
	595	82-54				-146.00	-18.10	
	596	82-1				-100.00	-13.40	
	597	82-96				-112.00	-14.90	
	598	82-196				-113.00	-13.40	
	599	82-197				-103.00	-12.00	
	600	83-37				-95.00	-11.90	
	601	83-34				-240.00	-30.00	
	602	83-170				-135.00	-16.90	
	603	83-130				-126.00	-17.00	
	604	83-119				-158.00	-20.60	
	605	83-158				-139.00	-18.30	
STATION 25	606	82-9				-140.00	-18.50	
	607	82-76				-144.00	-18.70	

STABLE-ISOTOPES FOR PRECIPITATION

LOCATION	RECORD NUMBER	SAMPLE NUMBER	C-13 (CH4)	H-2 (CH4)	C-13	H-2	O-18	S-34
STATION 25	608	82-24				-120.00	-15.40	
	609	82-83				-74.00	-7.60	
	610	82-66				-119.00	-13.10	
	611	82-79				-121.00	-13.90	
	612	82-25				-87.00	-10.70	
	613	82-67				-85.00	-11.00	
	614	82-153				-110.00	-12.00	
	615	82-152				-105.00	-11.50	
	616	83-89				-90.00	-10.70	
	617	83-53				-233.00	-29.70	
	618	83-134				-135.00	-16.80	
	619	83-139				-104.00	-13.40	
	620	83-142				-107.00	-14.70	
	621	83-190				-113.00	-14.40	
	622	83-198				-114.00	-13.80	
	623	83-135				-115.00	-14.20	
	624	83-217				-110.00	-12.90	
STATION 26	625	82-29				-140.00	-18.10	
	626	82-32				-135.00	-16.80	
	627	82-48				-134.00	-18.20	
	628	82-91				-83.00	-9.30	
	629	82-98				-99.00	-10.80	
	630	82-30				-140.00	-17.70	
	631	82-71				-101.00	-12.00	
	632	82-39				-92.00	-11.60	
	633	82-116				-96.00	-12.70	
	634	82-108				-104.00	-11.70	
	635	83-3				-94.00	-10.90	
	636	83-70				-236.00	-30.60	
	637	83-163				-142.00	-17.80	
	638	83-177				-112.00	-14.90	
	639	83-171				-123.00	-16.20	
	640	83-167				-149.00	-20.10	
	641	83-131				-114.00	-15.10	
	642	83-101				-105.00	-13.50	
	643	83-104				-116.00	-15.10	
	644	83-284				-102.00	-12.60	

APPENDIX B

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LOCATION: 299-E16-1 PRODUCING ZONE: ELEPHANT MOUNTAIN

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-161	SITE-161	28.000	10.900	15.000	8.900	32.000	2.600	-0.620	26.000		90.000	9.050	9.8
SITE-162	SITE-162	30.000	10.200	15.000	9.200	32.000	1.400	-0.610	36.000		143.000	8.450	-9.0
SITE-163	SITE-163	31.000	10.200	28.000	9.600	31.000	1.200	0.570	31.000		144.000	8.350	2.8
SITE-164	SITE-164	31.000	10.200	26.000	9.900	32.000	1.000	0.590	35.000		145.000	8.300	0.4

LOCATION: 299-E26-8 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-166	SITE-166	20.000	10.400	19.000	8.200	37.000	7.900	0.510	35.000			8.500	
SITE-167	SITE-167	18.000	9.900	21.000	9.200	37.000	7.600	0.580	18.000		103.000	8.350	2.9
SITE-168	SITE-168	19.000	9.900	19.000	9.200	37.000	8.100	0.530	37.000		104.000		-5.5

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LOCATION: 299-E33-12 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-170	SITE-170	17.000	8.600	14.000	7.200	28.000	6.600	0.230	28.000		39.000	9.750	18.1
SITE-171	SITE-171	17.000	8.300	18.000	7.700	31.000	7.300	0.200	26.000		50.000	9.450	17.1
SITE-172	SITE-172	17.000	8.000	19.000	8.500	34.000	6.100	0.170	25.000		64.000	8.250	13.3

LOCATION: 699-42-40C PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F'	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-177	SITE-177	35.000	14.400	10.000	3.700	34.000	3.000	0.660	38.000		122.000	8.750	-10.9
SITE-178	SITE-178	33.000	13.700	7.500	4.500	34.000	4.000	0.960	17.000		123.000		-8.1
SITE-179	SITE-179	35.000	13.600	10.000	4.600	34.000	4.000	0.840	16.000		125.000	8.450	-4.2
SITE-180	SITE-180	36.000	12.700	18.700	4.500		3.500	0.700	15.500				

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LOCATION: 699-47-50 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-205	SITE-205	20.390	7.390	55.310	14.660		30.950	0.570	107.300	7.63		7.500	
SITE-181	SITE-181	22.000	7.200	46.000	18.500	24.000	31.000	0.660	100.000		95.000	7.800	0.7

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LOCATION: 699-49-55B PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-183	SITE-183	11.000	6.900	38.000	11.900	34.000	16.700	0.370	20.000		120.000	7.800	3.3
SITE-184	SITE-184	12.000	6.800	38.000	12.200	34.000	9.600	0.260	21.000		122.000	7.800	6.4
SITE-185	SITE-185	12.000	6.800	38.000	12.400	33.000	10.600	0.230	17.000		117.000		9.2

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LOCATION: 699-50-45 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-203	SITE-203	16.390	5.710	30.020	10.210		22.970	0.490	20.520	0.93		7.400	
SITE-186	SITE-186	17.000	6.000	92.000	15.700	27.000	22.000	0.600	18.000		114.000	7.600	34.4

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LOCATION: 699-50-48 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-204	SITE-204	30.390	10.990	22.080	4.230		16.980	0.800	16.780	0.12		7.500	
SITE-187	SITE-187	33.000	11.000	19.000	6.200	31.000	26.000	0.640	31.000		114.000	7.600	-7.5

LOCATION: 699-51-46 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-201	SITE-201	20.000	9.310	32.020	4.230		16.980	0.460	32.850	1.18		8.900	
SITE-188	SITE-188	21.000	9.200	19.000	2.200	32.000	16.000	0.540	28.000		86.000	8.600	-10.0

LOCATION: 699-52-46A PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-202	SITE-202	16.510	4.230	33.630	9.190		25.950	0.460	21.020	0.43		7.400	
SITE-189	SITE-189	16.000	7.300	24.000	10.500	37.000	25.000	0.470	19.000		117.000	7.650	-8.1

LOCATION: 699-52-48 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-199	SITE-199	51.700	6.690	14.430	3.060		4.990	0.710	35.270			7.400	
SITE-190	SITE-190	50.000	6.400	6.200	1.900	28.000	4.000	0.640	24.000		147.000	8.050	-12.2

LOCATION: 699-53-50 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-200	SITE-200	20.390	7.120	28.980	8.630		20.990	0.420	18.930	1.05		7.400	
SITE-191	SITE-191	21.000	7.300	30.000	10.900	33.000	21.000	0.600	29.000		114.000	7.650	-0.2

LOCATION: 699-56-53 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-196	SITE-196	21.000	6.800	38.000	13.200	20.000	28.000	0.200	1.000		130.000	7.750	8.7
SITE-197	SITE-197	21.000	6.600	38.000	13.500	19.000	27.000	0.140	2.000		129.000	7.850	9.3

LOCATION: DB-01 PRODUCING ZONE: MABTON

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP73	CP73	94.800	12.700	2.000	0.550	31.800	16.000	3.100	0.500		202.000	8.360	-0.8
CP73	CP82	96.900	13.000	1.300	0.410	30.900	16.200	3.100	0.500		202.000	8.360	-0.3
CP179													
B1-19	B1-15						16.000	3.490	0.270		191.000	8.240	
B1-19	B1-19	101.000	13.200	1.760	0.490	27.900	16.700	3.660	0.210		191.000	8.240	4.0

LOCATION: DB-01 PRODUCING ZONE: PRIEST RAPIDS

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
81-65	81-65	101.000	16.000	0.490	0.150	35.500	47.500	7.210	16.300		134.000	8.900	1.1
81-65	81-70	100.000	15.900	0.500	0.150	35.500	47.400	7.200	16.200		134.000	8.900	0.6
82-27	82-27	99.700	15.300	0.430	0.100	35.400	46.600	7.080	16.300		136.000	8.670	0.1
82-27	82-87	100.000	15.300	0.490	0.100	35.300	47.500	7.140	16.600		136.000	8.670	-0.1
85-32											137.000	9.050	

LOCATION: DB-02 PRODUCING ZONE: MABTON

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP51													
CP83	CP74	103.300	12.200	1.100	0.350	31.000	16.800	5.400	0.500		207.000	8.570	-0.2
CP83	CP83	106.800	12.200	1.200	0.370	28.800	16.900	5.500	0.500		207.000	8.570	1.3
79-65	CP123	107.700	13.500	1.500	0.450	33.000	14.600	5.500	1.200	0.50			
CP181													

LOCATION: DB-04 PRODUCING ZONE: MABTON

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP37	CP37	88.000	11.000	1.500	0.300	17.312	6.000		0.500		194.836	8.000	
CP75	CP75	84.000	11.100	0.500	0.140	42.500	8.400	1.300	0.500		197.000	8.470	-3.4
CP75	CP84	84.000	11.100	0.500	0.140	42.300	8.000	1.300	0.500		197.000	8.470	-3.3
79-77	CP116	77.800	10.600	0.560	0.160	48.600	6.400	1.100	1.100				
CP117	CP117	84.800	11.600	0.600	0.180	50.500	7.200	0.600	1.200		175.000	8.300	3.5

LOCATION: DB-05 PRODUCING ZONE: MADTON

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP76	CP76	90.500	12.600	1.400	0.520	33.300	28.800	1.500	2.400		167.000	8.420	1.0
CP76	CP85	94.400	12.900	1.400	0.540	33.400	28.100	1.600	2.300		167.000	8.420	3.2
CP112	CP112	95.600	14.000	1.460	0.460	36.300	18.100	1.700	1.100	0.50	174.000	8.450	5.9
CP113	CP113	98.400	14.600	1.400	0.430		40.300	2.100	1.200		187.700	8.000	-2.7

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LOCATION: DB-07 PRODUCING ZONE: MABTON

REF NUM	BAM NUM	NA	K	CA	MG	BI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP33													
CP86	CP77	117.000	13.300	1.400	0.120	39.100	61.200	8.000	2.100		175.000	9.090	-1.6
CP86	CP86	121.800	13.900	1.400	0.120	38.700	62.700	7.600	1.200		175.000	9.090	0.4
79-89	CP121	118.400	14.200	1.600	0.090	41.500	55.600	7.300	2.100				
CP183													
83-413	83-413	117.000	12.600	1.460	0.100	38.370	56.500	7.680	0.900		170.000	9.350	0.7
83-413	83-448	114.000	12.300	1.430	0.100	37.400	57.100	7.950	0.890		170.000	9.350	-0.9

LOCATION: DB-09 PRODUCING ZONE: HABTON

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP54	CP54	73.300	11.300	0.400	0.100	31.498	10.090	0.530	12.560		141.803	8.530	1.3
CP59	CP59	71.200	11.000	0.500	0.120	35.399	12.300	0.760	11.700		142.377	8.450	-1.1
CP78	CP78	72.900	11.200	0.500	0.110	29.300	11.100	0.700	12.500	0.50	141.000	8.410	0.8
CP78	CP87	76.600	11.090	0.600	0.120	30.800	10.800	0.700	12.900		141.000	8.410	3.2
CP114	CP114	74.300	12.000	0.560	0.120	32.200	8.100	0.600	9.600	0.50	140.000	8.400	4.5
79-28	CP115	75.100	12.200	0.560	0.130	31.400	9.800	0.100	1.200				
CP177													
83-472	83-410	70.900	10.520	0.450	0.100	27.400	10.200	0.840	14.500		139.000	8.500	-0.4
83-472	83-472	71.000	10.500	0.450	0.100	27.400	10.100	0.840	14.400		139.000	8.500	-0.3

LOCATION: DB-10 PRODUCING ZONE: MABTON

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP79	CP79	98.700	9.500	1.900	0.220	1.800	35.300	1.500	0.300		193.000	9.610	-3.0
CP79	CP88	102.500	9.400	1.700	0.220	1.500	39.800	1.400	0.200		193.000	9.610	-2.6
CP185													

LOCATION: DB-11 PRODUCING ZONE: PRIEST RAPIDS

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
85-4											143.000	8.100	
85-15											140.000	8.100	

LOCATION: DB-11 PRODUCING ZONE: PRIEST RAPIDS

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP53	CP53	31.800	9.600	14.300	9.980	32.200	4.360	0.450	0.040		145.000	8.260	1.9
CP53	CP56	32.800	9.800	14.600	10.200	33.100	4.380	0.440	0.040		145.000	8.260	3.1
CP61	CP61	33.600	9.900	14.200	7.200	35.200	4.700	0.670	0.500		145.000	8.110	-1.0
CP61	CP64	34.200	10.100	14.600	7.400	34.200	4.800	0.670	0.500		145.000	8.110	0.0
CP80	CP80	34.500	10.100	14.700	7.490	29.800	4.600	0.700	0.500		146.000	8.200	0.2
CP80	CP89	35.000	11.000	15.800	8.020	29.100	4.300	0.600	0.500		146.000	8.200	2.7
81-57	81-57	33.300	9.920	15.300	7.500	32.170	4.600	0.720			141.000	8.190	

LOCATION: DB-12 PRODUCING ZONE: MABTUN

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP65	CP65	37.800	7.700	21.800	12.370	27.900	7.000	0.400	18.100		159.000	7.980	1.9
CP66	CP66	36.000	7.900	20.100	11.880	26.300	6.600	0.400	15.800		159.000	8.270	0.1

LOCATION: DB-12 PRODUCING ZONE: PRIEST RAPIDS

REF NUM	SAM NUM	NA	K	CA	MG	BI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP67	CP67	33.000	10.700	17.700	10.290	26.100	5.000	0.600	0.500		162.000	8.230	0.2
CP68	CP68	39.100	10.300	15.500	9.000	24.900	5.100	0.600	3.100		153.000	7.960	2.6

LOCATION: DB-13 PRODUCING ZONE: ELEPHANT MOUNTAIN

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP69	CP69	18.540	6.200	32.200	12.400	28.200	4.100	0.400	18.900		153.000	8.290	0.0
CP70	CP70	22.300	6.200	31.400	11.780	30.150	4.000	0.400	20.100		156.000	8.130	-0.1

LOCATION: DB-13 PRODUCING ZONE: RATTLESNAKE RIDGE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP71	CP71	26.700	7.200	22.100	9.380	30.100	3.800	0.400	7.900		152.000	7.970	-1.7
CP72	CP72	26.700	7.200	21.600	9.250	28.600	3.700	0.400	7.600		150.000	8.050	-1.5

LOCATION: DB-13 PRODUCING ZONE: MABTON

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP96	CP96	70.700	10.500	10.300	2.400	39.200	4.300	0.300	2.900		178.000		3.8
CP95	CP95	67.100	11.100	10.100	2.520	33.600	4.900	0.600	3.800		178.000	8.380	1.4
CP97	CP97A	64.200	11.900	10.500	2.710	26.900	4.600	0.100	0.700				
CP97	CP97B	63.600	11.500	10.300	2.680	26.600	4.600	0.100	0.700				
80-159													
83-404	83-404	54.200	10.100	9.000	2.030	29.800	4.590	0.490	0.140		153.000	8.350	0.2
83-404	83-455	55.000	10.300	9.080	2.020	30.000	4.620	0.490	0.160		153.000	8.350	0.9

LOCATION: DB-14 PRODUCING ZONE: BELAH

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP98	CP98	32.500	7.200	20.100	7.690	29.100	3.300	0.200	6.500		159.000	8.400	-2.8
CP99	CP99	31.200	8.000	21.600	8.730	33.600	4.000	0.200	6.450		155.000	8.590	0.0

LOCATION: DB-14 PRODUCING ZONE: COLD CREEK

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP100	CP100	40.450	7.800	14.090	5.230	28.800	3.600	0.400	0.500		149.000	8.760	-0.3
CP101	CP101	40.600	7.800	14.020	5.200	28.000	3.700	0.400	0.700		150.000	8.660	-0.8

LOCATION: DB-14 PRODUCING ZONE: MADTON

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
CP102	CP102	70.800	10.600	1.390	0.230	28.300	15.500	0.400	3.200		156.000	8.090	-2.9
CP103	CP103	67.900	10.000	2.170	0.710	29.700	10.900	0.100	2.400		159.000	8.010	-2.4
CP119	CP119	73.400	11.700	2.700	0.790	35.000	7.600	0.700	3.300		159.000	8.300	3.8

LOCATION: DB-15 PRODUCING ZONE: HADION

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-31	79-31	91.800	11.000	1.900	0.420	28.000	6.900	0.900	2.900	0.50	194.700	8.700	2.3
79-31	79-5	93.900	11.100	1.930	0.430	28.600	6.900	1.000	2.800	0.50	194.700	8.700	3.4
79-25													

LOCATION: DB-15 PRODUCING ZONE: FRENCHMAN SPRINGS

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-62	79-62	155.000	14.500	2.200	0.240	41.000	97.800	16.900	20.100	2.90	146.800	9.380	1.4
79-62	79-84	160.000	17.000	2.400	0.300	40.300	98.000	17.000	20.100	0.50	146.800	9.380	3.6
79-90	79-90	168.000	14.700	1.110	0.230	39.500	94.600	16.800	19.800	0.50	161.200	9.310	3.8
79-90	79-95	164.000	16.600	2.700	0.400	43.500	96.800	17.000	19.800	0.50	161.200	9.310	3.1

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LOCATION: DC-06 PRODUCING ZONE: ROCKY COULEE FT TO TD BELOW UMTANUM

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-214	SITE-214	233.000	3.200			54.000	125.000	41.000	96.000		51.000	10.100	
80-238	80-201	217.000	3.260	1.170	0.010	61.800	129.000	39.900	95.200		166.600	10.200	-7.1
80-238	80-238	214.000	3.560	1.270	0.020	64.700					166.600	10.200	

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LOCATION: DC-06 PRODUCING ZONE: UMTANUM FB AND BELOW

REF NUM	SAM NUM	NA	K	CA	MG	BI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-15	80-15	361.000	4.060	2.140	0.025	34.500	211.000	35.400	189.000	1.30	83.200	9.750	8.5
80-15	80-70	368.000	4.200	2.240	0.025	35.000	34.100	24.100	184.000	6.20	83.200	9.750	34.9
81-82	81-76	359.000	3.350	2.640	0.001	38.500	289.000	35.600	177.000		84.000	9.400	1.4
81-82	81-82	360.000	3.380	2.700	0.010	38.500	289.000	35.600	177.000		84.000	9.400	1.6

LOCATION: DC-07 PRODUCING ZONE: ROCKY COULEE THRU UMTANUM

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
82-23	82-23	235.000	3.060	3.730	0.100	45.900	126.000	37.000	74.000		180.000	9.890	-0.7
82-23	82-56	226.000	2.810	3.820	0.100	46.600	126.000	36.800	74.500		180.000	9.890	-2.6
82-10	82-10	259.000	3.330	3.460	0.100	45.000	137.000	39.000	83.000		160.000	9.570	3.1
82-10	82-33	258.000	3.310	3.470	0.100	45.000	136.000	39.000	83.000		160.000	9.570	3.0

LOCATION: DC-07 PRODUCING ZONE: ROCKY COULEE FB AND COHASBETT FT

REF NUM	SAM NUM	NA	K	CA	MG	BI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-39	80-39	133.000	5.200	2.900	0.220	35.300	40.900	10.000	23.400		177.400	8.400	3.1
80-39	80-98	134.000	5.000	2.800	0.210	35.200	39.600	10.800	26.000		177.400	8.400	2.9
80-19	80-11	199.000	5.000	2.400	0.060	43.200	97.500	24.500	78.700		141.200	8.500	2.3
80-19	80-19	198.000	5.100	2.400	0.060	43.600	96.800	24.400	77.500		141.200	8.500	2.4

LOCATION: DC-07 PRODUCING ZONE: GRANDE RONDE

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-188	80-178	416.000	5.800	4.540	0.018	57.400	418.000	22.000	173.000		108.000	8.950	-0.6
80-188	80-188	433.000	5.500	4.600	0.020	57.700	420.000	22.200	175.000		108.000	8.950	1.0
80-196	80-177	438.000	6.080	11.000	0.910	75.200	386.000	22.100	172.000		197.600	9.480	0.6
80-196	80-196	420.000	6.250	17.700	1.200	77.500	332.000	20.800	153.000		197.600	9.480	4.9

LOCATION: DC-12 PRODUCING ZONE: ROCKY COULEE FT

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-101	80-101	143.000	15.700	2.280	0.760	51.800	107.000	13.000					
80-101	80-169	148.000	16.100	2.060	0.710	50.800	107.000	13.100					
80-174	80-143						103.000	12.600			144.650	9.570	
80-174	80-174	148.000	15.000	1.170	0.051	28.900	127.000	13.600	1.700		144.650	9.570	-2.4

LOCATION: DC-12 PRODUCING ZONE: COHASSETT FB

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-209	80-209	165.000	13.000	1.400	0.050	52.800	110.000	13.200	2.200		163.000	9.140	3.3
80-209	80-242	169.000	12.500	1.400	0.050	51.900	101.000	12.300			163.000	9.140	
80-233	80-233	138.000	13.000	1.640	0.160	46.300	116.200	13.400			157.400	9.460	
80-233	80-243	139.000	13.700	1.770	0.170	50.000	113.300	13.900	1.300		157.400	9.460	-4.4

LOCATION: DC-14 PRODUCING ZONE: GRANDE RONDE

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
81-21	81-21	162.000	9.100	1.890	0.030	39.600	67.100	15.200	58.400		168.000	9.390	0.7
81-21	81-29	162.000	9.010	1.910	0.030	39.800	65.800	15.000	57.100		168.000	9.390	1.2
81-99	81-63										124.000	9.700	
81-99	81-91	267.000	6.600	1.670	0.070	50.300	185.000	36.200	105.000		124.000	9.700	0.4
81-99	81-99	265.000	6.560	1.660	0.080	50.100	186.000	36.200	105.000		124.000	9.700	-0.1
81-163	81-163	294.000	6.380	1.660	0.039	51.300	214.000	41.900	122.000		115.000	9.630	-0.2
81-163	81-90	298.000	6.510	1.670	0.040	51.400	214.000	41.800	122.000		115.000	9.630	0.5
81-138	81-114										110.000	9.480	
81-138	81-138	306.000	6.300	1.540	0.025	51.000	224.000	43.700	130.000		110.000	9.480	0.1
81-138	81-188	303.000	6.290	1.560	0.025	51.100	224.000	43.800	129.000		110.000	9.480	-0.3
82-8	82-31										109.000	9.640	
82-8	82-42	323.000	5.770	1.300	0.100	51.600	249.000	44.000	134.000		109.000	9.640	-0.1
82-8	82-8	316.000	8.560	1.270	0.100	51.800	247.000	44,000	134.000		109.000	9.640	-1.0
82-315													
83-156	83-156	337.000	5.810	1.290	0.009	53.700	253.000	48.400	141.000		110.000	9.530	0.2
83-156	83-197	336.000	5.780	1.270	0.100	53.300	253.000	48.400	147.000		110.000	9.530	-0.4
83-152	83-152	336.000	5.730	1.560	0.010	53.200	254.000	48.700	141.000				-0.1
83-152	83-193	332.000	5.810	1.540	0.100	53.100	254.000	48.900	141.000				-0.7
83-157	83-157	338.000	5.900	1.320	0.009	54.300	254.000	50.700	140.000		123.000	9.200	-0.9
83-157	83-179	337.000	5.880	2.070	0.100	54.500	254.000	49.900	140.000		123.000	9.200	-0.8
83-178	83-103	327.000	5.690	1.280	0.100	53.400	254.000	48.500	140.000		109.000	9.600	-1.3
83-178	83-178	328.000	5.710	1.280	0.009	53.400	253.000	48.300	140.000		109.000	9.600	-1.0
83-183	83-123	331.000	5.850	1.290	0.100	53.400	254.000	49.800	141.000		118.000	9.300	-1.5
83-183	83-183	330.000	5.880	1.290	0.009	53.100	254.000	49.800	141.000		118.000	9.300	-1.7
83-154	83-154	336.000	5.730	1.320	0.011	54.900	254.000	50.100	141.000		120.000	9.330	-1.0
83-154	83-191	335.000	5.760	1.300	0.100	54.800	254.000	50.800	140.000		120.000	9.330	-1.2
83-150	83-108	334.000	5.680	1.290	0.100	54.300	253.000	49.000	140.000				-0.1
83-150	83-150	335.000	5.770	1.410	0.010	54.700	253.000	49.000	140.000				0.0
83-266	83-233	336.000	5.820	1.300	0.100	55.300	252.000	50.100	140.000		117.000	9.300	-0.5
83-266	83-266	326.000	5.660	1.300	0.100	54.500	251.000	50.100	140.000		117.000	9.300	-1.9
83-261	83-203	332.000	5.870	1.330	0.100	53.700	251.000	48.900	138.000		118.000	9.600	-0.7
83-261	83-261	333.000	5.880	1.350	0.100	53.900	251.000	48.900	138.000		118.000	9.600	-0.6

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LOCATION: DC-15 PRODUCING ZONE: GRANDE RONDE

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
81-96	81-66						210.000	22.700	171.000		85.000	8.800	
81-96	81-85	267.000	3.860	2.030	0.040	38.100	222.000	21.800	175.000		85.000	8.800	-3.8
81-96	81-96	277.000	4.010	2.210	0.150	39.300					85.000	8.800	
81-69	81-69	271.000	3.940	2.220	0.030	37.700	224.000	21.700	175.000		86.000	9.020	-3.3
81-69	81-84	263.000	3.690	2.110	0.030	36.800	224.000	21.700	175.000		86.000	9.020	-4.8

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LOCATION: DC-16A PRODUCING ZONE: FRENCHMAN SPRINGS

REF NUM	BAM NUM	NA	K	CA	MG	BI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
82-202	82-202	217.000	30.200	3.870	0.100	33.700	263.000	12.300	6.100		107.600	9.070	0.3
82-202	82-228	227.000	31.500	4.080	0.100	34.200	265.000	12.400	5.950		107.600	9.070	2.3
82-231											107.600	9.070	

LOCATION: ENYEART PRODUCING ZONE: PRIEST RAPIDS

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-209	SITE-209	29.000	6.700	18.000	11.000	30.000	5.400	0.600	1.800	0.10	151.000	7.700	-0.1
SITE-210	SITE-210	27.000	6.400	18.000	11.000	28.000	4.800	0.400		0.20	150.000	8.500	
84-166	84-166	26.300	6.410	18.100	11.200	28.000	4.670	1.000			147.000	8.050	
84-166	84-184	26.000	6.300	18.000	11.200	27.900	4.650	0.780			147.000	8.050	

LOCATION: FORD PRODUCING ZONE: PRIEST RAPIDS

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-206	SITE-206	27.000	8.500	19.000	12.000	30.000	5.800	0.500	1.800	0.10	155.000	7.800	-0.0
SITE-207	SITE-207	26.000	7.300	18.000	11.000	26.000	4.400	0.700	0.200	0.00	148.000	8.000	-0.1
SITE-219	SITE-219	26.000	5.600	17.600	6.300	24.700	4.870	0.620	2.000		154.100	8.000	-10.4

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LOCATION: MCGEE PRODUCING ZONE: PRIEST RAPIDS

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-224	SITE-224	30.000	7.900	17.000	8.600	27.100	5.200	0.500	0.000	0.20		8.100	
SITE-222	SITE-222	30.000	8.600	16.000	8.900	26.000	4.400		2.000			8.100	
SITE-223	SITE-223	30.000	8.300	16.000	8.800		4.500	0.700	0.000	0.00		8.100	
SITE-225	SITE-225	38.000	8.000	24.000	10.000	0.110	4.000	0.800	0.500	0.25		8.200	
SITE-220	SITE-220	29.500	7.500	16.500	8.500	26.100	4.820	0.800	2.000		146.700	8.000	-2.5
82-7	82-52	28.300	7.560	15.900	8.400	29.300	4.400	0.600			145.000	7.660	
82-7	82-7	27.700	7.310	15.600	8.280	29.800	4.600	0.700			145.000	7.660	

LOCATION: MCGEE PRODUCING ZONE: PRIEST RAPIDS

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-64	80-64	29.700	8.850	16.600	9.290	26.600	5.000	0.700	7.200		142.400	8.130	-1.0
80-64	80-88	29.400	8.310	16.600	9.260	26.300	4.800	0.700			142.400	8.130	
81-79	81-73	30.800	8.440	16.400	8.770	27.300	4.100	0.670			136.000	7.860	
81-79	81-79	31.500	8.550	16.900	9.050	28.200	4.150	0.700			136.000	7.860	

LOCATION: MCGEE PRODUCING ZONE: ROZA

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD CALCULATED PH BALANCE
81-54	81-54	31.200	8.310	17.100	9.500	28.000	4.100	0.650			133.000	7.690
81-54	81-56	31.400	8.420	16.720	9.000	27.800	4.150	0.650			133.000	7.690
82-64	82-11	29.900	8.100	16.800	8.810	29.600	4.800	0.700			139.000	7.680
82-64	82-64	29.700	8.040	16.600	8.710	29.300	4.700	0.700			139.000	7.680

LOCATION: RRL-02 PRODUCING ZONE: COHASSETT FB

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
82-401	82-401	337.000	13.800	2.220	0.100	44.700	403.000	20.000	4.200		165.000	9.710	-2.2
82-401	82-479	337.000	13.900	2.190	0.100	44.500	406.000	20.000	4.200		165.000	7.710	-2.4
84-7	84-43	351.000	13.400	2.360	0.100	49.200	420.000	14.000	0.970		149.000	7.600	0.5
84-7	84-7	353.000	13.500	2.350	0.100	49.500	416.000	14.000	0.950		149.000	9.600	1.1

LOCATION: S11-E12A PRODUCING ZONE. LEVEY

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
80-61	80-61	50.300	8.700	22.400	6.050	21.200	13.800	0.700			170.500	8.150	
80-61	80-7	51.300	8.860	22.900	6.170	21.500					170.500	8.150	
80-180	80-138	47.200	7.500	21.100	5.800	27.200	148.000	7.700			172.700	8.040	
80-180	80-180	48.200	7.800	21.600	5.900	27.800	148.000	7.700			172.700	8.040	

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LOCATION: 699-14-38 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-61	SITE-61	17.000	6.000	34.000	11.000	22.000	4.200	0.500	20.000		140.000	7.800	1.9
SITE-86	SITE-86	17.000	5.700	30.000	9.400	23.000	4.000	0.400	21.000	0.58	148.000	7.900	-5.7

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LOCATION: 699-15-15B PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-13	SITE-13	20.000	7.200	41.000	9.300	14.000	6.000	0.400	57.000	16.00	123.000	7.700	-2.9
SITE-149	SITE-149	20.000	6.400	54.000	11.000	15.000	6.700	0.300	84.000			7.900	3.1

LOCATION: 699-15-26 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-24	SITE-24	22.000	7.300	46.000	12.000	17.000	9.800	0.500	57.000	29.70	124.000	7.900	-0.3
SITE-150	SITE-150	23.000	6.300	48.000	12.000	17.000	9.900	0.400	60.000			7.900	4.5

LOCATION: 699-17-5 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-18	SITE-18	12.000	6.400	61.000	11.000	13.000	14.000	0.300	53.000	53.00	106.000	7.800	1.6
SITE-151	SITE-151	10.000		70.000	10.000	23.000	19.000	0.200	65.000			7.900	

LOCATION: 699-19-43 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-48	SITE-48	18.000	5.700	43.000	11.000	13.000	6.900	0.500	67.000	2.30	110.000	7.800	1.6
SITE-121	SITE-121	19.000	5.600	44.000	10.000	14.000	7.400	0.400	71.000		115.000	7.600	-0.3

LOCATION: 699-27-8 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-5	SITE-5	19.000	6.400	56.000	12.000	17.000	13.000	0.200	46.000	58.00	119.000	8.000	1.3
SITE-30	SITE-30	19.000	6.900	54.000	11.000	16.000	13.000	0.300	50.000	57.40	122.000	8.000	-2.0
SITE-50	SITE-50	20.000	6.300	55.000	12.000	17.000	12.000	0.300	52.000	13.10	110.000	7.800	10.6
SITE-76	SITE-76	20.000	6.700	54.000	13.000	16.000	11.000	0.300	49.000	13.10	120.000	7.900	9.7
SITE-87	SITE-87	21.000	6.400	48.000	12.000	17.000	13.000	0.300	56.000	58.00	123.000	7.900	-5.2

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LOCATION: 699-31-31 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-69	SITE-69	30.000	7.200	43.000	13.000	20.000	10.000	0.700	54.000	11.20	110.000	7.900	10.3
SITE-102	SITE-102	30.000	6.900	37.000	11.000	23.000	11.000	0.700	58.000		109.000	8.000	6.2

LOCATION: 699-32-22 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-17	SITE-17	31.000	7.000	53.000	14.000	14.000	17.000	0.400	66.000	75.00	105.000	7.700	1.3
SITE-27	SITE-27	29.000	7.200	53.000	13.000	15.000	17.000	0.400	65.000	61.90	113.000	8.000	0.5
SITE-51	SITE-51	29.000	6.500	51.000	13.000	14.000	28.000	0.400	64.000	16.10	110.000	7.900	4.6
SITE-65	SITE-65	30.000	6.900	50.000	14.000	14.000	14.000	0.400	61.000	16.50	110.000	7.900	10.5
SITE-89	SITE-89	29.000	6.600	46.000	13.000	16.000	15.000	0.400	66.000	75.00	115.000	8.000	-5.3

LOCATION: 699-32-70 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-70	SITE-70	18.000	4.500	37.000	12.000	20.000	13.000	0.500	25.000	4.20	110.000	7.700	8.0
SITE-90	SITE-90	19.000	4.300	32.000	9.800	21.000	12.000	0.500	24.000	18.00	123.000	7.800	-4.0
SITE-152	SITE-152	18.000	4.100	34.000	11.000	20.000	12.000	0.400	25.000			7.700	3.1

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LOCATION: 699-33-42 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-12	SITE-12	31.000	6.900	41.000	13.000	18.000	3.100	0.600	2.400	49.00	107.000	7.700	19.9
SITE-29	SITE-29	29.000	7.000	38.000	12.000	19.000	11.000	0.700	60.000	34.50	117.000	7.900	-1.9
SITE-52	SITE-52	29.000	5.300	37.000	12.000	18.000	12.000	0.700	55.000	7.10	110.000	7.800	4.9
SITE-67	SITE-67	29.000	6.400	38.000	13.000	18.000	14.000	0.700	52.000	6.00	110.000	7.900	7.1
SITE-91	SITE-91	31.000	6.200	35.000	12.000	20.000	16.000	0.600	59.000	24.00	115.000	7.900	-1.8

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LOCATION: 699-33-56 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-8	SITE-8	27.000	5.800	42.000	13.000	18.000	7.600	0.300	36.000	11.00	167.000	7.700	-0.1
SITE-40	SITE-40	25.000	6.100	41.000	12.000	19.000	7.300	0.400	30.000	10.70	171.000	7.800	-1.9
SITE-53	SITE-53	24.000	5.700	46.000	14.000	21.000	7.700	0.500	34.000	2.50	170.000	7.700	2.7
SITE-62	SITE-62	24.000	6.000	47.000	14.000	20.000	7.800	0.500	33.000		170.000	7.800	4.0
SITE-92	SITE-92	25.000	5.700	41.000	12.000	22.000	7.600	0.500	32.000	9.70	180.000	7.800	-4.4

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LOCATION: 699-34-42 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-33	SITE-33	32.000	7.300	37.000	11.000	20.000	11.000	0.700	54.000	44.20	113.000	7.900	-1.3
SITE-153	SITE-153	28.000	6.100	32.000	9.900	20.000	11.000	0.600	48.000			7.900	4.2

LOCATION: 699-35-66 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-77	SITE-77	20.000	5.900	43.000	13.000	18.000	11.000	0.400	27.000	5.60	140.000	7.800	5.6
SITE-94	SITE-94	23.000	5.600	40.000	11.000	20.000	14.000	0.400	28.000	25.00	147.000	7.900	-3.5

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LOCATION: 699-35-9 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-31	SITE-31	19.000	5.500	40.000	9.500	15.000	8.700	0.400	30.000	19.50	131.000	8.000	-1.1
SITE-104	SITE-104	10.000	5.500	50.000	10.000	15.000	11.000	0.400	38.000		131.000	7.900	2.0

LOCATION: 699-37-43 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-34	SITE-34	41.000	8.400	25.000	7.900	23.000	3.600	0.600	45.000	0.90	151.000	8.000	-2.6
SITE-173	SITE-173	57.000	8.700	82.000	29.000	21.000	19.000	0.460	305.000		106.000	7.750	0.8

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LOCATION: 699-40-1 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-10	SITE-10	17.000	6.000	40.000	11.000	17.000	6.900	0.400	26.000	24.00	120.000	7.700	3.4
SITE-106	SITE-106	10.000	5.800	50.000	11.000	14.000	9.300	0.400	31.000	32.00	123.000	8.100	1.0

LOCATION: 699-41-23 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-15	SITE-15	30.000	7.300	48.000	15.000	17.000	15.000	0.400	77.000	53.00	108.000	7.700	0.6
SITE-113	SITE-113	29.000	6.700	42.000	12.000	14.000	9.600	0.500	61.000	40.00	114.000	0.000	0.3

LOCATION: 699-42-40A PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-174	SITE-174	28.000	3.800	19.000	14.000	21.000	7.000	0.700	37.000			7.950	
SITE-175	SITE-175	25.000	4.300	22.000	12.400		6.700		29.000		106.000		

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LOCATION: 699-46-21 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-75	SITE-75	21.000	4.900	40.000	16.000	16.000	12.000	0.500	34.000	2.80	120.000	8.000	5.0
SITE-124	SITE-124	21.000	4.700	42.000	14.000	17.000	17.000	0.500	41.000		123.000	7.800	0.9

LOCATION: 699-49-53 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-9	SITE-9	41.000	7.700	55.000	15.000	17.000	24.000	0.300	150.000	12.00	94.000	8.100	0.4
SITE-39	SITE-39	39.000	10.000	57.000	12.000	15.000	23.000	0.500	150.000	12.00	93.000	8.200	-0.6
SITE-58	SITE-58	43.000	11.000	63.000	15.000	15.000	23.000	0.500	190.000	3.70	82.000	8.200	1.5
SITE-78	SITE-78	42.000	12.000	62.000	7.700	14.000	25.000	0.500	180.000	3.70	57.000	9.400	1.6
SITE-97	SITE-97	45.000	13.000	58.000	7.700	16.000	28.000	0.400	170.000	16.00	72.000	9.200	-1.9
SITE-126	SITE-126	41.000	12.000	64.000	1.400	8.000	26.000	0.300	210.000		26.000	10.000	-2.2
SITE-157	SITE-157	45.000	13.000	67.000	8.300	11.000	22.000	0.400	230.000			8.800	0.7

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LOCATION: 699-50-42 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-14	SITE-14	18.000	5.900	31.000	12.000	21.000	11.000	0.500	39.000	3.10	106.000	7.800	2.2
SITE-115	SITE-115	16.000	4.600	17.000	5.000	5.000	12.000	0.500	39.000	0.09	42.000	7.700	1.3

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LOCATION: 699-85-50C PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-79	SITE-79	6.000	4.700	29.000	8.800	11.000	2.700	0.200	12.000	2.80	110.000	7.900	-0.6
SITE-128	SITE-128	5.000	4.300	29.000	7.900	11.000	3.000	0.200	15.000		79.000	7.900	9.9
SITE-193	SITE-193	4.700	4.100	19.000	9.200	12.000	2.000	0.270	18.000		109.000	7.650	-13.2

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LOCATION: 699-55-76 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-71	SITE-71	14.000	5.900	41.000	8.100	4.100	21.000	0.400	85.000	0.37	46.000	8.500	2.4
SITE-117	SITE-117	10.000	5.500	34.000	5.200	5.000	17.000	0.400	83.000	0.58	29.000	9.100	-2.1
SITE-129	SITE-129	9.600	4.800	28.000	4.900	6.000	17.000	0.300	46.000		43.000	7.700	0.6

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LOCATION: 699-56-53 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-194	SITE-194	8.400	5.300	25.000	10.500		3.700		8.400		95.000	7.060	
SITE-195	SITE-195	8.500	5.400	25.000	10.500		3.700		8.400		107.000	7.250	

LOCATION: 699-63-90 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-74	SITE-74	11.000	4.700	36.000	13.000	20.000	9.100	0.400	28.000	1.29	120.000	7.800	2.7
SITE-133	SITE-133	11.000	4.400	34.000	12.000	20.000	21.000	0.300	30.000		123.000	7.800	-6.0

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LOCATION: 699-65-50 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-73	SITE-73	19.000	3.400	26.000	9.200	17.000	6.300	1.000	15.000	0.32	110.000	8.000	4.7
SITE-134	SITE-134	19.000	3.000	24.000	8.200	18.000	7.200	1.100	16.000		115.000	8.000	-1.2

LOCATION: 699-B12-3 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-45	SITE-45	23.000	5.600	43.000	9.800	15.000	18.000	0.600	43.000	1.90	120.000	7.900	2.9
SITE-143	SITE-143	24.000	5.800	42.000	9.600	15.000	17.000	0.400	44.000			7.900	0.8

LOCATION: 699-83-25 PRODUCING ZONE: UNCONFINED

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-7	SITE-7	26.000	7.300	51.000	14.000	13.000	23.000	0.500	81.000	0.27	125.000	7.900	1.5
SITE-142	SITE-142	26.000	7.700	62.000	15.000	15.000	22.000	0.500	99.000			7.800	1.3

LOCATION: 699-83-E12 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-22	SITE-22	17.000	7.000	26.000	3.100	15.000	3.700	0.500	25.000	13.70	82.000	9.400	-0.8
SITE-141	SITE-141	13.000	4.700	24.000	8.100	15.000	4.600	0.300	15.000			8.300	2.7

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LOCATION: 699-88-19 PRODUCING ZONE: UNCONFINED

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-46	SITE-46	32.000	7.600	41.000	9.800	18.000	22.000	1.300	12.000	0.96	160.000	7.800	3.3
SITE-84	SITE-84	36.000	7.800	36.000	8.900	18.000	22.000	1.300	13.000	3.90	172.000	8.000	-1.9

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LOCATION: BENNETT SPRING PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-218	SITE-218	7.100	1.600	22.800	8.200	21.500	5.870	0.270	10.000		88.500	7.500	0.1
79-13	79-13	8.900	2.600	25.600	9.800	22.900	13.700	2.300	16.900	19.00	85.600	7.150	-6.3

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LOCATION: JUNIPER SPRING PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-215	SITE-215	19.600	5.200	23.600	10.300	23.300	4.670	0.500	18.000		156.400	8.300	-9.8
79-2	79-2	30.000	6.900	24.700	17.800	26.100	6.900	0.600	30.900	0.60	152.800	7.300	3.0
79-2	79-43	28.800	6.600	23.500	16.900	24.900	6.900	0.600	30.500	0.60	152.800	7.300	0.7
81-115	81-115	24.190	5.850	23.950	15.240	27.130	4.630	0.530	12.000		145.000		4.9
81-115	81-161	24.640	5.950	24.160	15.360	27.270	4.630	0.530	12.000		145.000		5.5
83-372	83-305	24.570	5.910	27.810	17.000	26.890	6.110	0.460	28.750		154.000	7.750	1.7
83-372	83-372	24.500	5.800	25.350	16.570	26.450	6.110	0.460	28.570		154.000	7.750	-0.4

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LOCATION: LOWER SNIVELY SPRING PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-34	79-19	9.500	2.500	19.900	9.800	19.100	4.700	0.300	20.900	8.60	91.900	7.600	-5.9
79-34	79-34	11.200	2.900	22.600	11.200	21.300	6.900	0.300	20.900	8.10	91.900	7.600	-0.1
82-362	82-362	8.700	2.400	22.200	10.200	23.700	3.700	0.300	13.000	8.40	96.000	7.340	-1.2
82-362	82-377	8.400	2.300	22.100	10.100	23.600	3.700	0.300	13.000	8.40	96.000	7.340	-1.8
83-396	83-311	8.560	2.660	22.860	10.370	23.680	4.350	0.280	12.650		92.900	7.750	3.7
83-396	83-396	8.590	2.430	22.500	10.230	23.500	4.270	0.280	12.480		92.900	7.750	3.2

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LOCATION: LOZIER SPRING PRODUCING ZONE:

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-6	79-44	7.700	2.000	23.400	9.300	20.900	1.900	0.500	4.200	4.80	98.700	7.350	2.2
79-6	79-6	7.600	1.800	23.000	9.100	20.700	1.900	0.500	5.200	4.70	98.700	7.350	0.8
81-186	81-116	7.850	1.260	24.080	8.940	23.340	3.730	0.310	7.140	10.65	91.420		0.9
81-186	81-186	7.770	1.260	24.010	8.880	23.220	3.730	0.310	7.140	10.65	91.420		0.6
83-316	83-316	7.810	1.410	24.580	8.870	22.760	5.030	0.270	10.000	8.48	93.000	7.650	-0.6
83-316	83-343	7.720	1.400	24.580	8.860	22.450	5.030	0.270	10.140	8.68	93.000	7.650	-0.8

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LOCATION: MAIDEN SPRING PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-100	79-67	7.810	2.570	19.350	8.890	23.900	3.300	0.200	7.500	5.20			
79-100	79-96	7.620	2.530	18.440	8.800	23.700	3.400	0.400	8.000	2.70			
83-420	83-420	7.130	1.660	19.320	7.370	18.640	3.820	0.180	9.240	6.86	71.000	7.450	2.2
83-420	83-435	7.270	1.700	19.660	7.510	18.960	3.760	0.180	9.240	6.86	71.000	7.450	3.2

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LOCATION: OBSERVATORY SPRING PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
84-392	84-310	7.430	1.810	22.600	11.000	17.400	3.140	0.130	13.090	6.23	96.000	7.550	0.3
84-392	84-392	7.830	2.000	23.000	11.200	17.600	3.170	0.130	13.170	6.30	96.000	7.550	1.4
84-329	84-329	7.380	1.830	22.500	10.900	18.100	3.500	0.400	11.700	3.50			
84-329	84-366	7.330	1.790	22.200	10.800	18.000	3.400	0.400	12.100	4.00			
81-119	81-119	7.540	1.740	21.990	10.670	18.230	3.030	0.190	10.330	9.40	91.970	7.860	1.0
81-119	81-157	8.100	1.990	22.080	10.710	18.290	3.030	0.190	10.330	9.40	91.970	7.860	1.8
83-433	83-433	7.400	1.820	22.690	10.930	17.540	3.280	0.160	12.520	5.59	96.000	7.850	0.6
83-433	83-461	7.420	1.900	23.110	11.070	17.730	3.280	0.160	12.520	5.48	96.000	7.850	1.4

LOCATION: RATTLESNAKE SPRING PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
SITE-216	SITE-216	12.000	3.000	28.500	8.000	21.000	3.850	0.360	14.000		136.100	7.700	-7.9
79-88	79-87	16.600	8.300	48.500	17.200	25.900	5.300	0.400	10.400	0.20	202.600	7.300	3.5
79-88	79-88	16.300	8.300	45.800	17.250	25.500	5.300	0.500	11.000	0.20	202.600	7.300	1.8
83-412	83-412	18.250	4.990	53.980	15.630	23.180	7.300	0.500	12.440		203.000	7.550	3.7
83-412	83-466	17.990	4.990	53.840	15.600	23.210	7.300	0.490	12.520		203.000	7.550	3.5

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LOCATION: SULPHUR SPRINGS PRODUCING ZONE:

REF NUM	SAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-29	79-29	9.900	3.600	23.800	10.100	24.100	6.300	0.300	25.700	11.60	97.000	6.900	-5.8
79-29	79-36	9.800	3.600	23.600	10.100	24.000	6.000	0.200	25.000	11.30	97.000	6.900	-5.5
83-409	83-409	9.870	2.970	25.820	9.330	25.640	5.220	0.340	11.500	5.16	99.000	7.650	1.9
83-409	83-442	9.780	2.890	25.500	9.200	25.390	5.200	0.330	11.500	5.17	99.000	7.650	1.2

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LOCATION: UPPER SNIVELY SPRING PRODUCING ZONE:

REF NUM	BAM NUM	NA	K	CA	MG	SI	CL	F	SO4	NO3	FIELD ALK	FIELD PH	CALCULATED BALANCE
79-71	79-69	7.870	2.360	16.980	7.600	21.170	3.800	0.200	8.000		71.920	7.650	4.2
79-71	79-71	7.830	2.220	16.620	7.520	21.090	3.800	0.200	8.100	5.10	71.920	7.650	1.0
81-126	81-126	7.900	1.900	19.500	7.400	20.500	4.830	0.300	10.000	5.61	74.000		1.1
81-126	81-200	7.700	1.820	18.900	7.200	20.000	4.960	0.300	10.200	5.61	74.000		-0.6
83-503	83-503	8.230	2.090	19.490	7.370	21.710	5.490	0.230	11.290	5.28	77.000	8.050	-0.9
83-503	83-547	8.000	2.050	19.410	7.370	21.650	5.300	0.230	11.060	5.33	77.000	8.050	-1.1