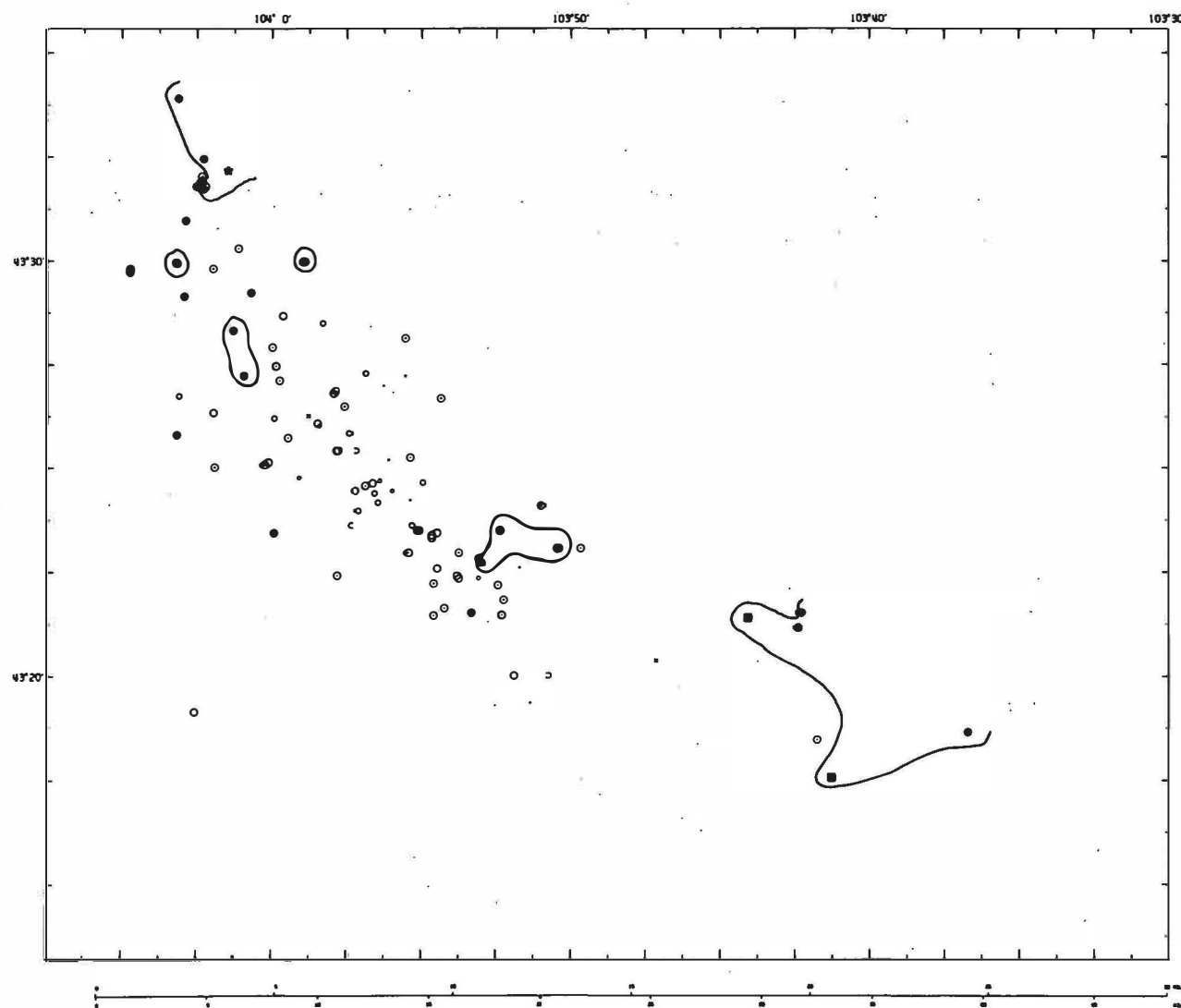
	
United States Nuclear Regulatory Commission Official Hearing Exhibit In the Matter of: POWERTECH USA, INC. (Dewey-Burdock In Situ Uranium Recovery Facility)	
ASLBP #: 10-898-02-MLA-BD01 Docket #: 04009075 Exhibit #: NRC-084-C-00-BD01 Admitted: 8/19/2014 Rejected: Other:	Identified: 8/19/2014 Withdrawn: Stricken:

CONCENTRATION RANGES FOR PLOTTER SYMBOLS (ppm)	
0.03	0.08
0.08	0.12
0.12	0.17
0.17	0.25
0.25	0.35
0.35	0.50
0.50	0.75
0.75	1.25
1.25	2.25
2.25	3.75
3.75	15.51
15.51	25.00
25.00	55.16
55.16	105.01
105.01	125.04
125.04	125.04



Approximate
Contour
≤13.51

Figure A-4b

GEOCHEMICAL DISTRIBUTION OF 1,000-URANIUM/SULFATE IN GROUNDWATER
OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

A-18

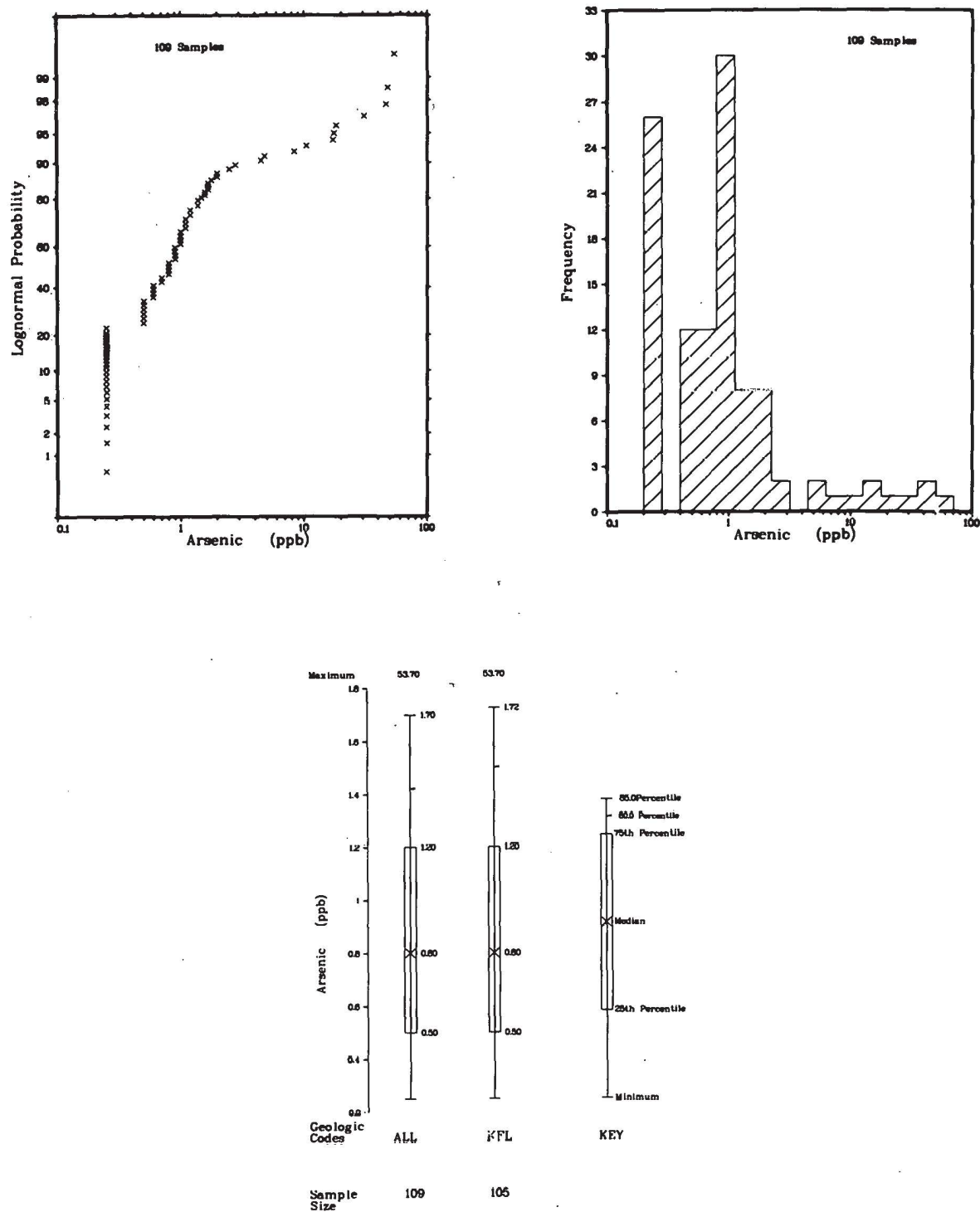
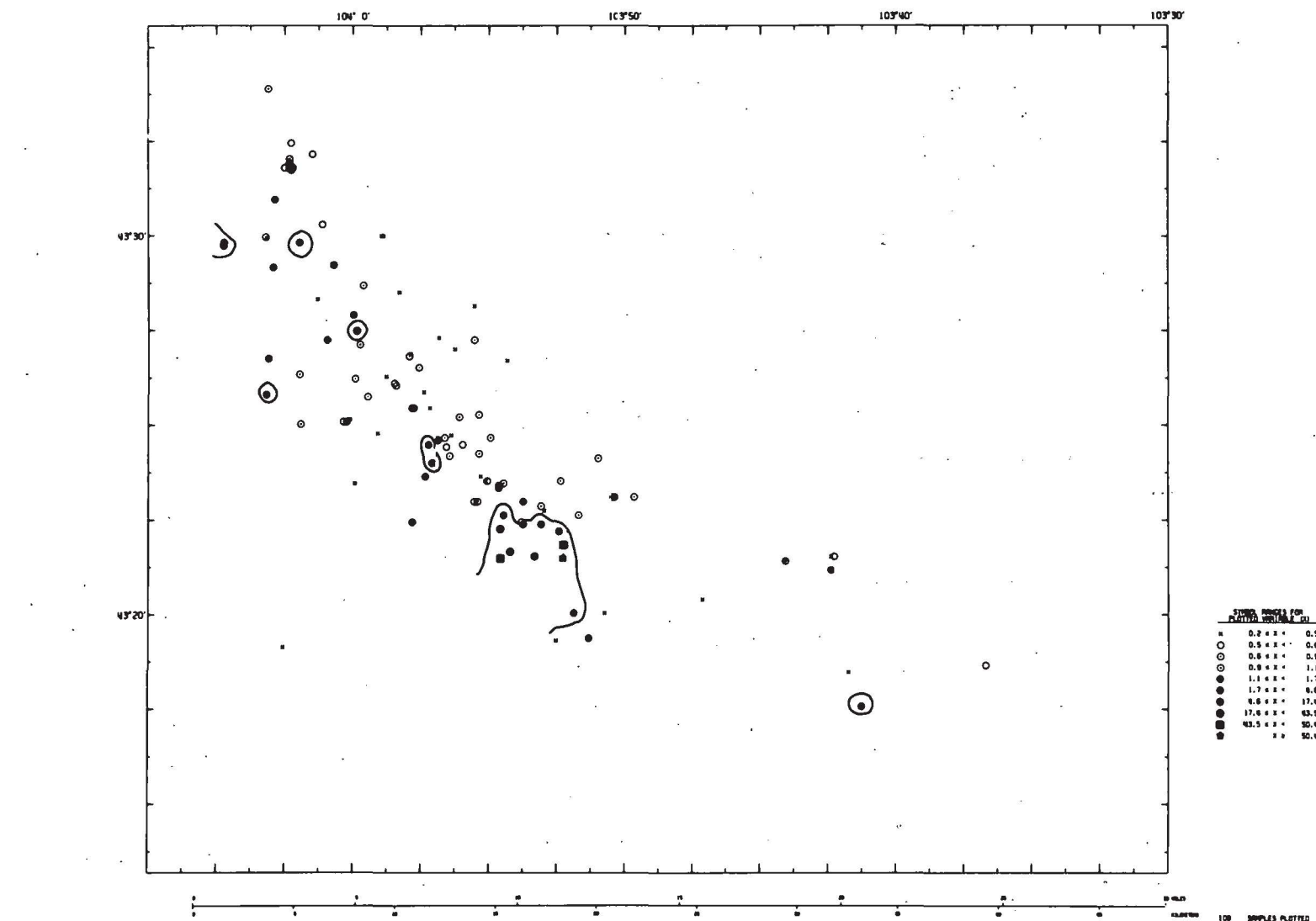


Figure A-5a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR ARSENIC (PPB)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-20

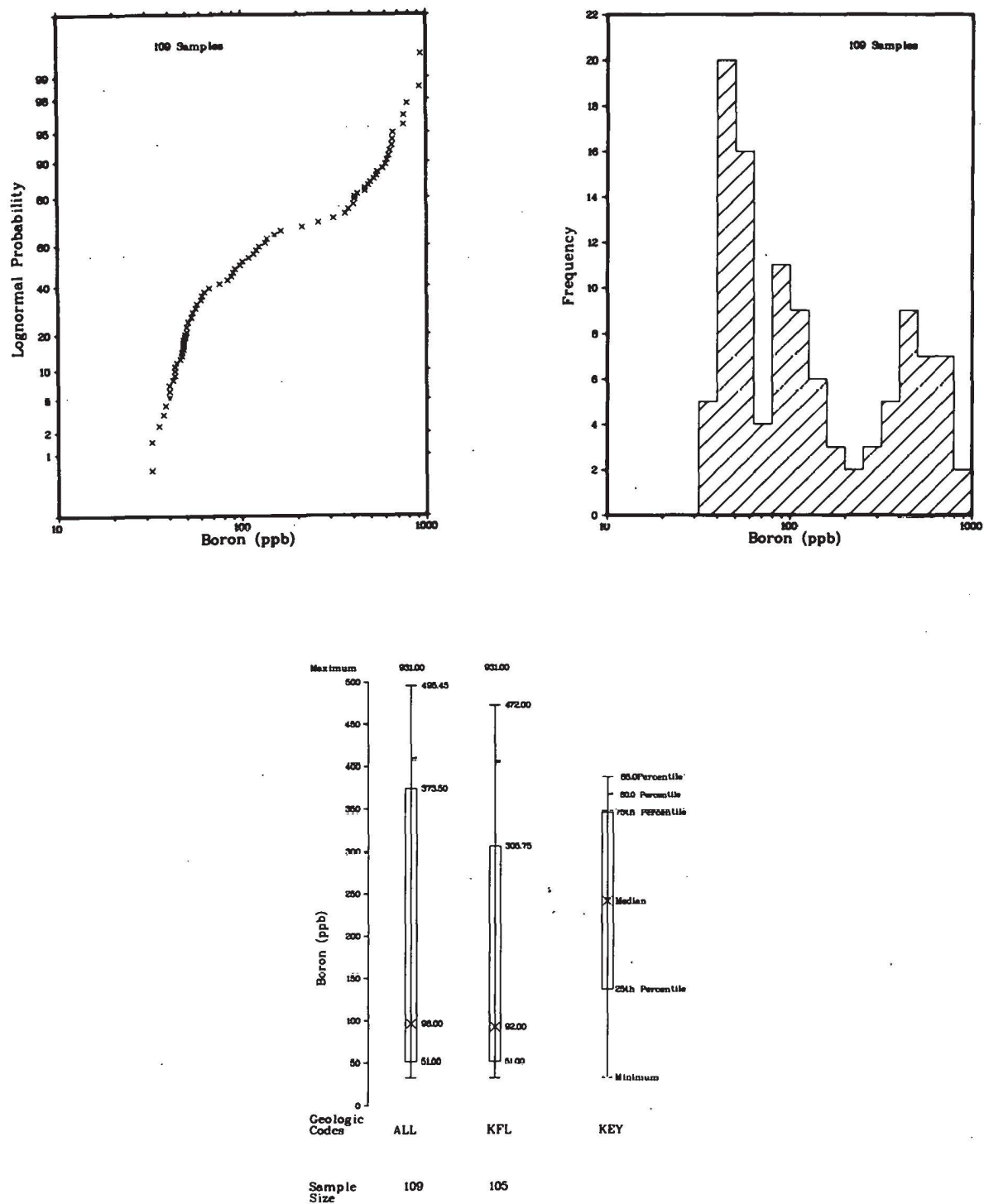
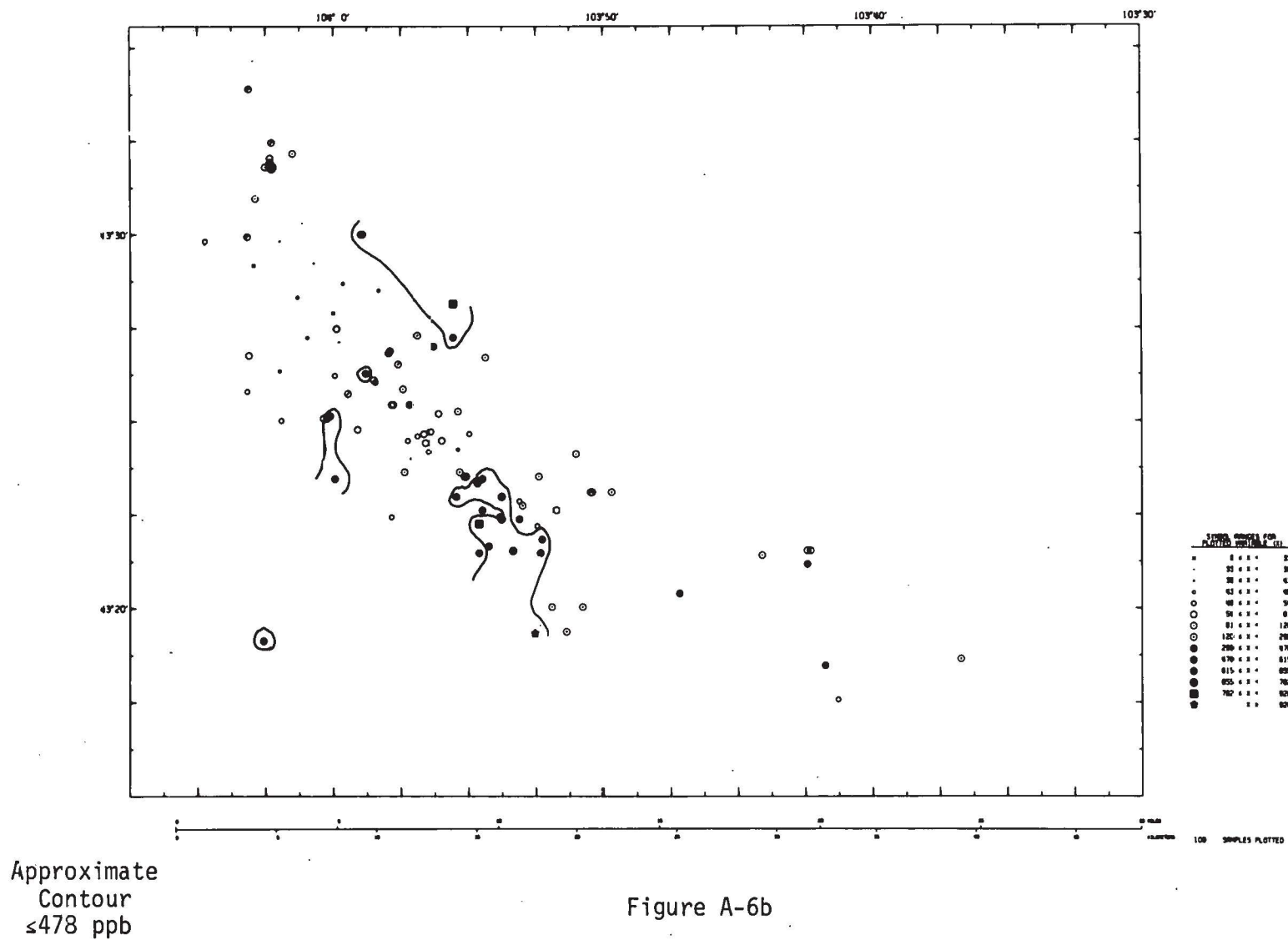


Figure A-6a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR BORON (PPB)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-22

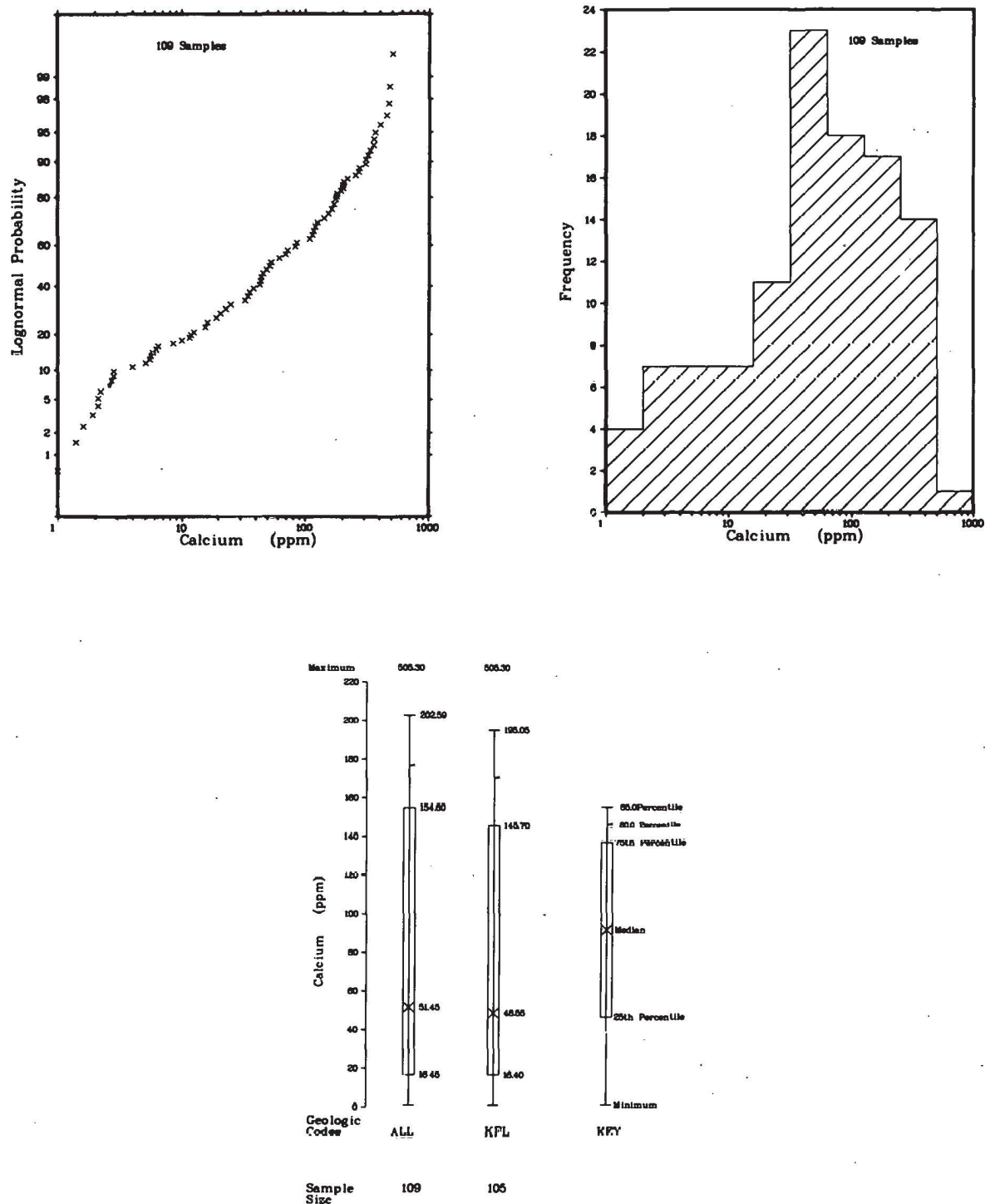
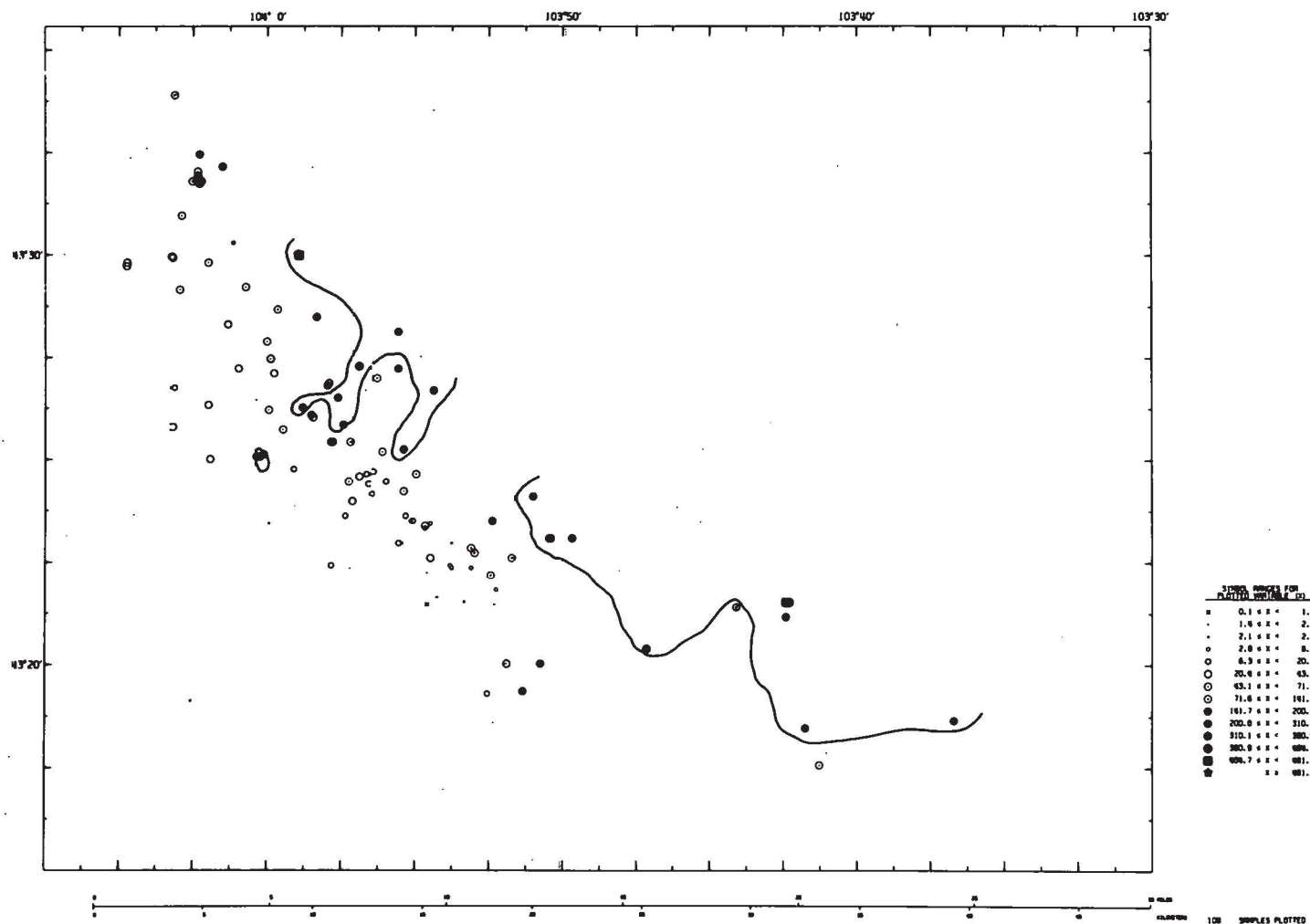


Figure A-7a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR CALCIUM (PPM)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-24

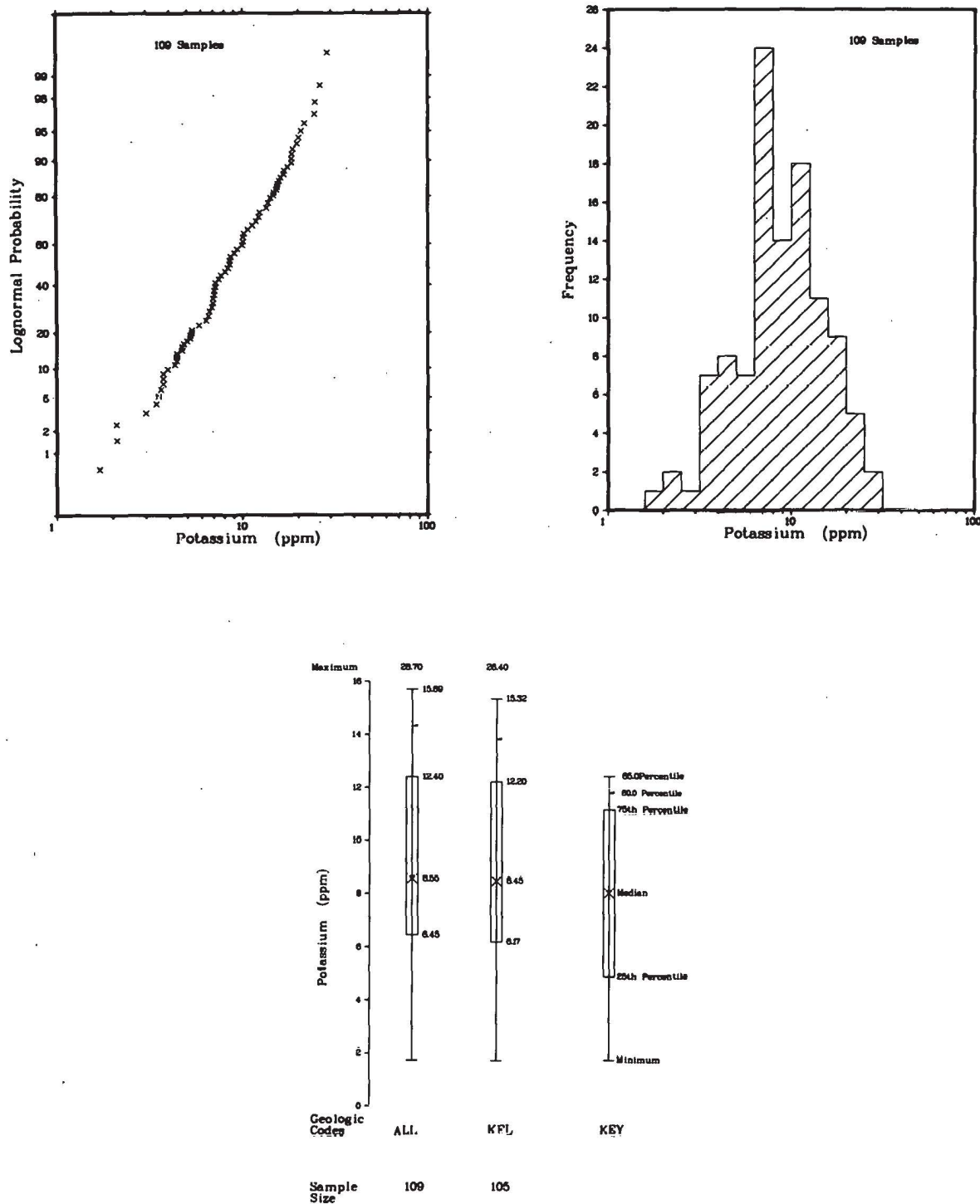
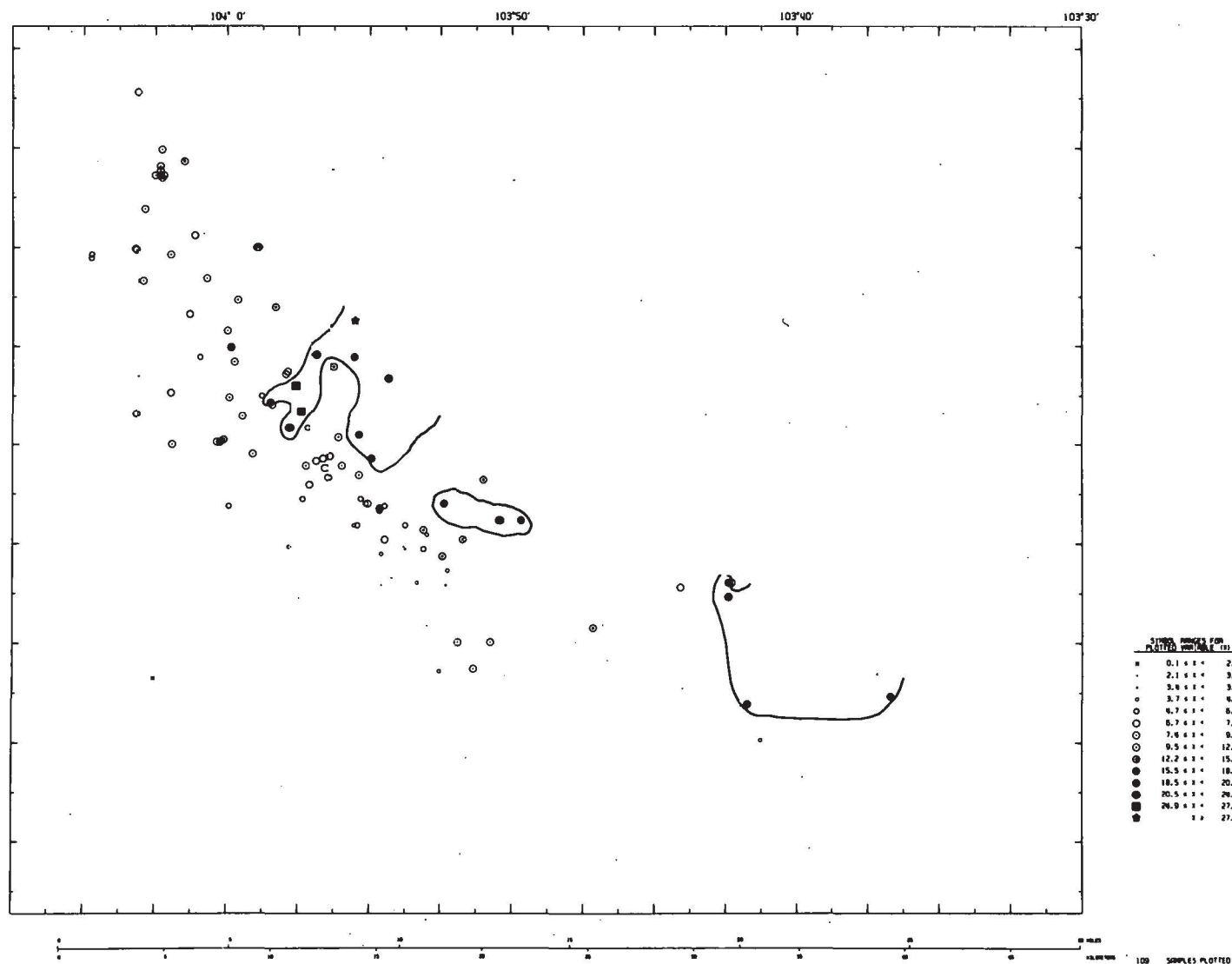


Figure A-8a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR POTASSIUM (PPM)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-26

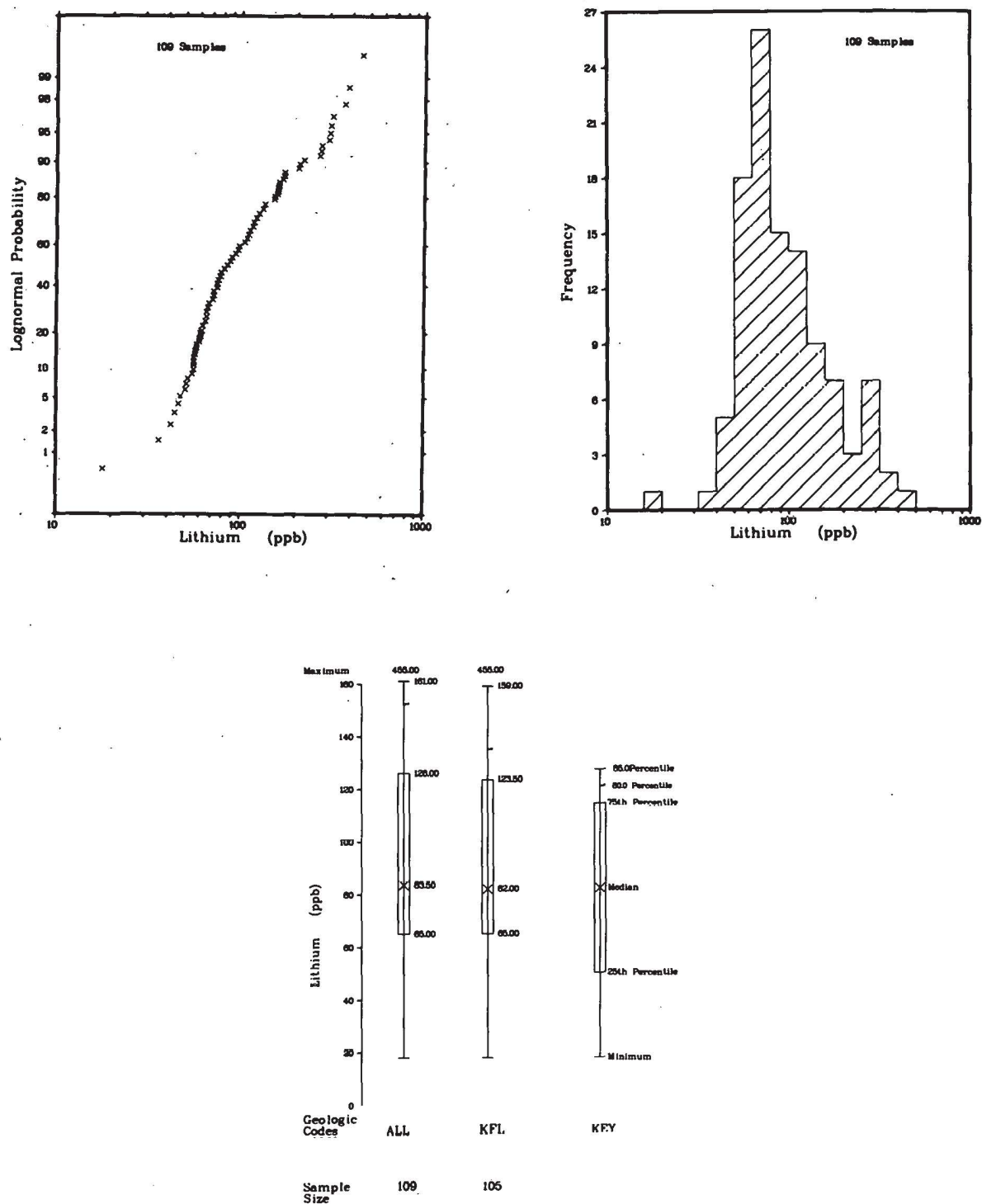
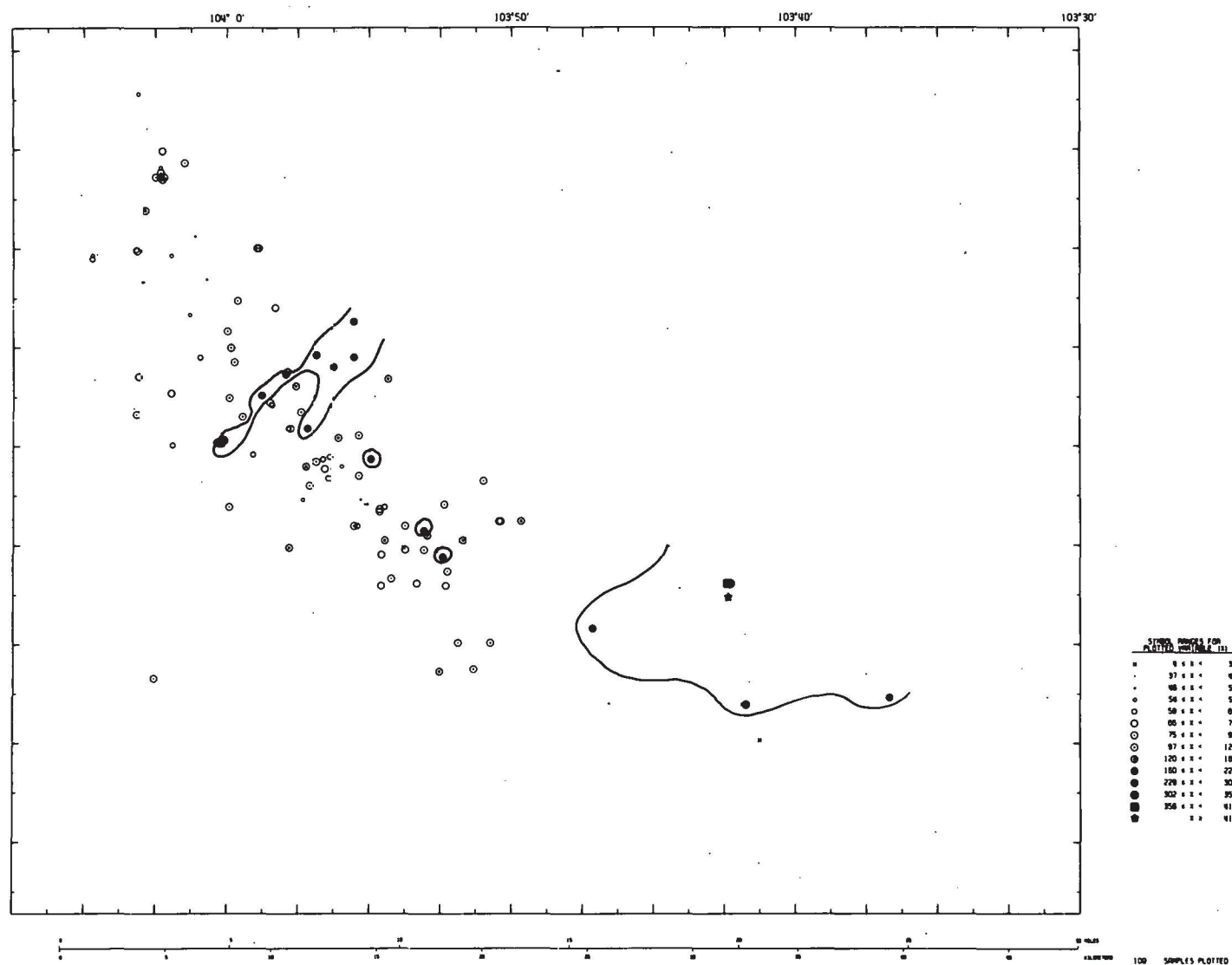


Figure A-9a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR LITHIUM (PPB)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-28

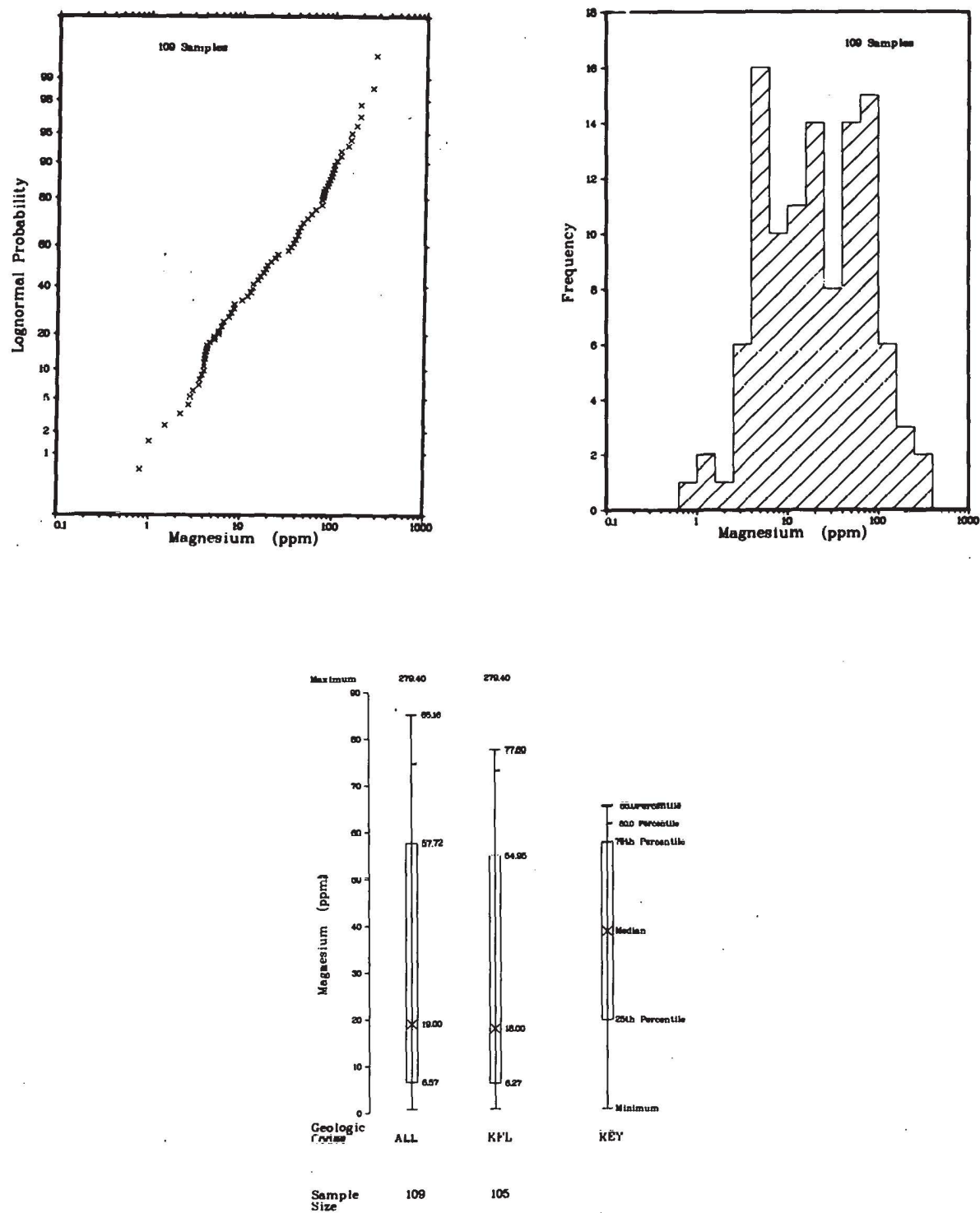
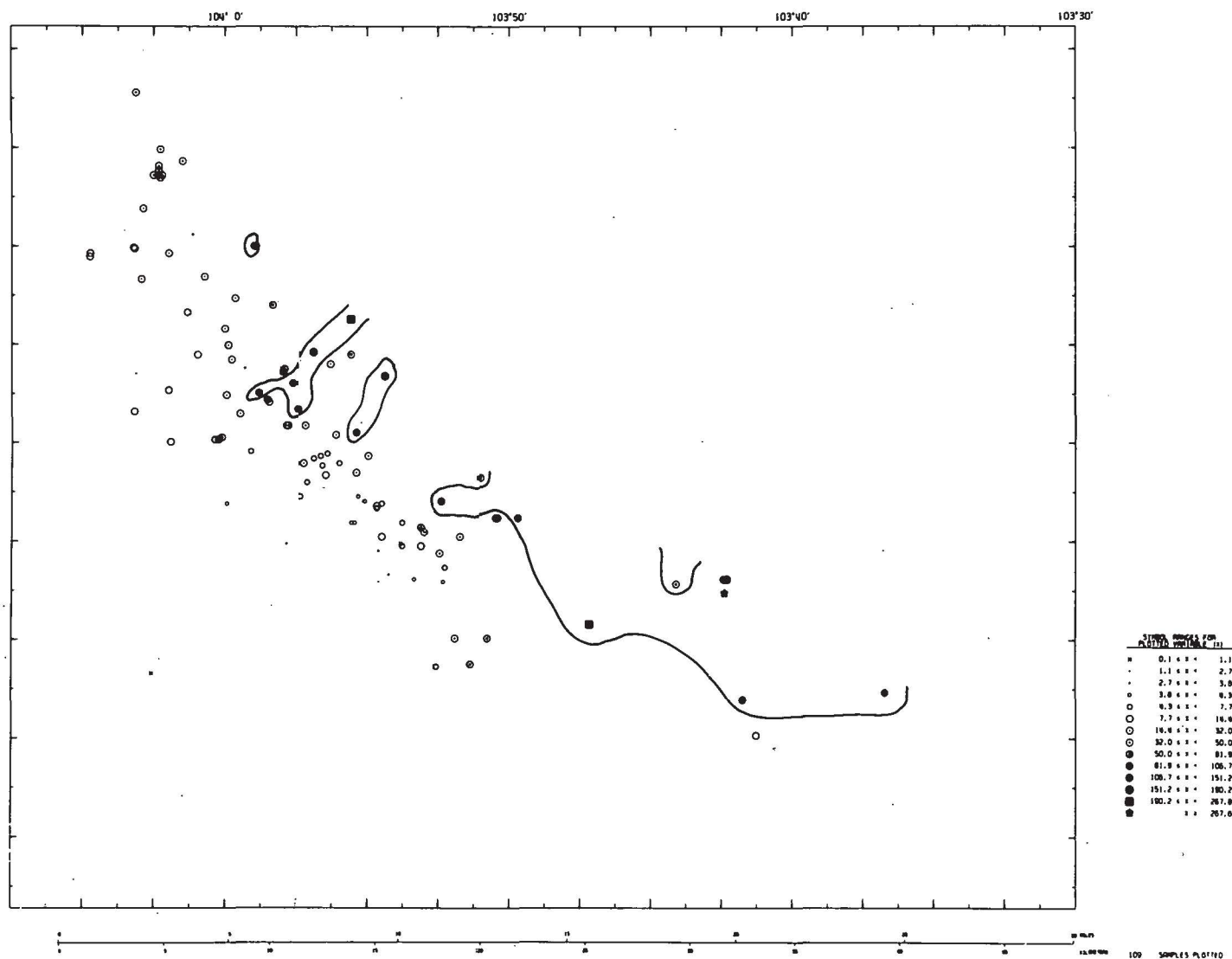


Figure A-10a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR MAGNESIUM (PPM)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-30

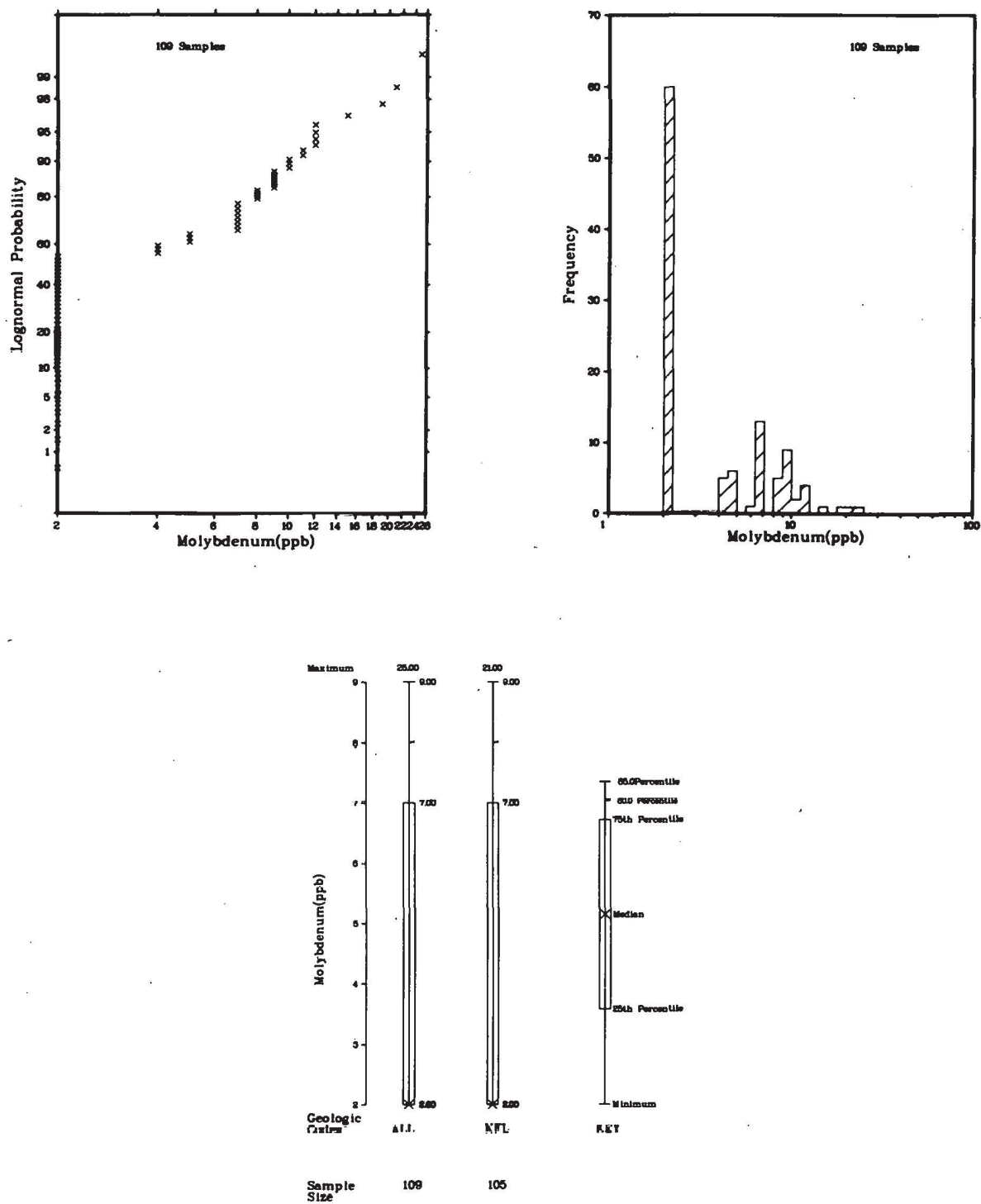
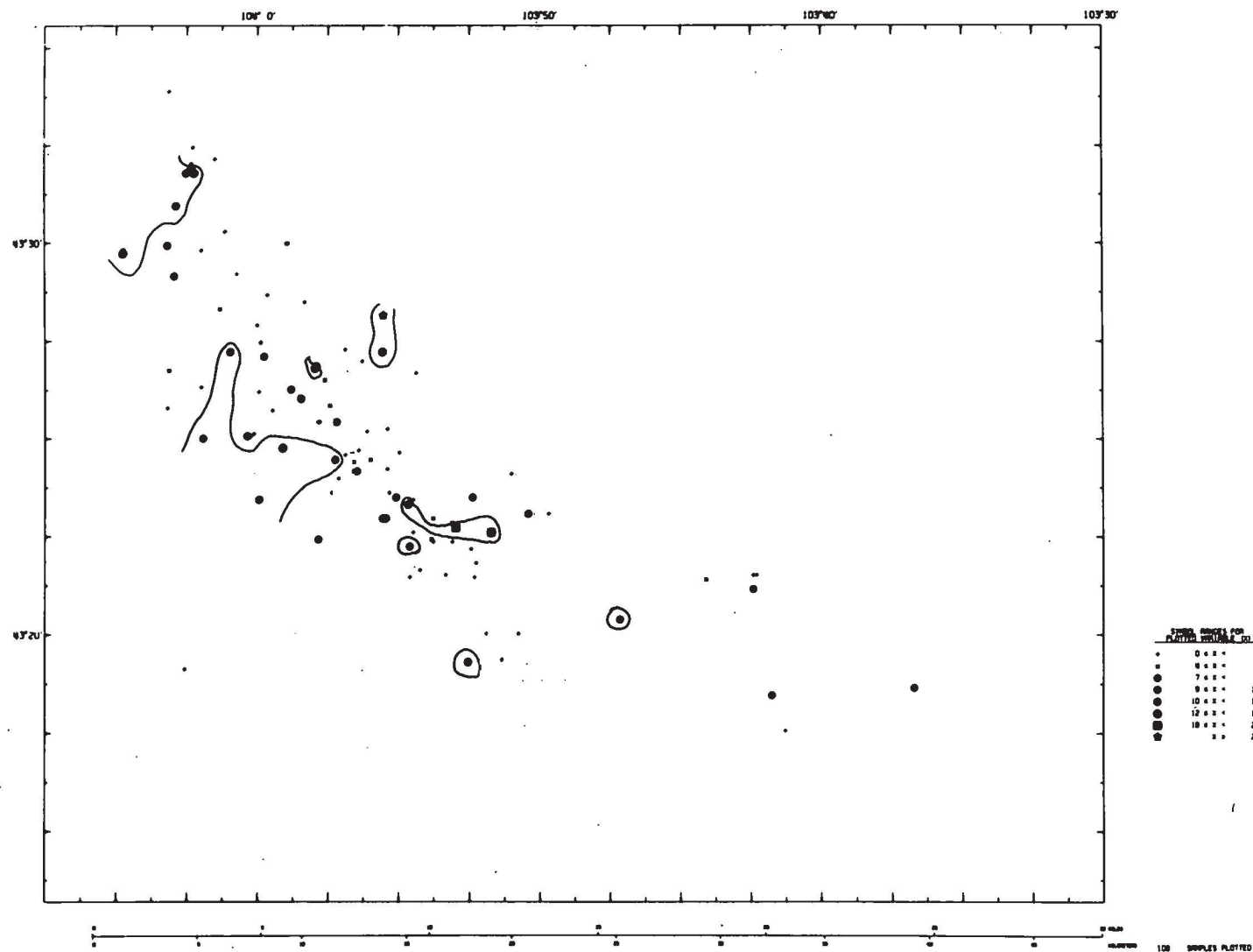


Figure A-11a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR MOLYBDENUM (PPB)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-32

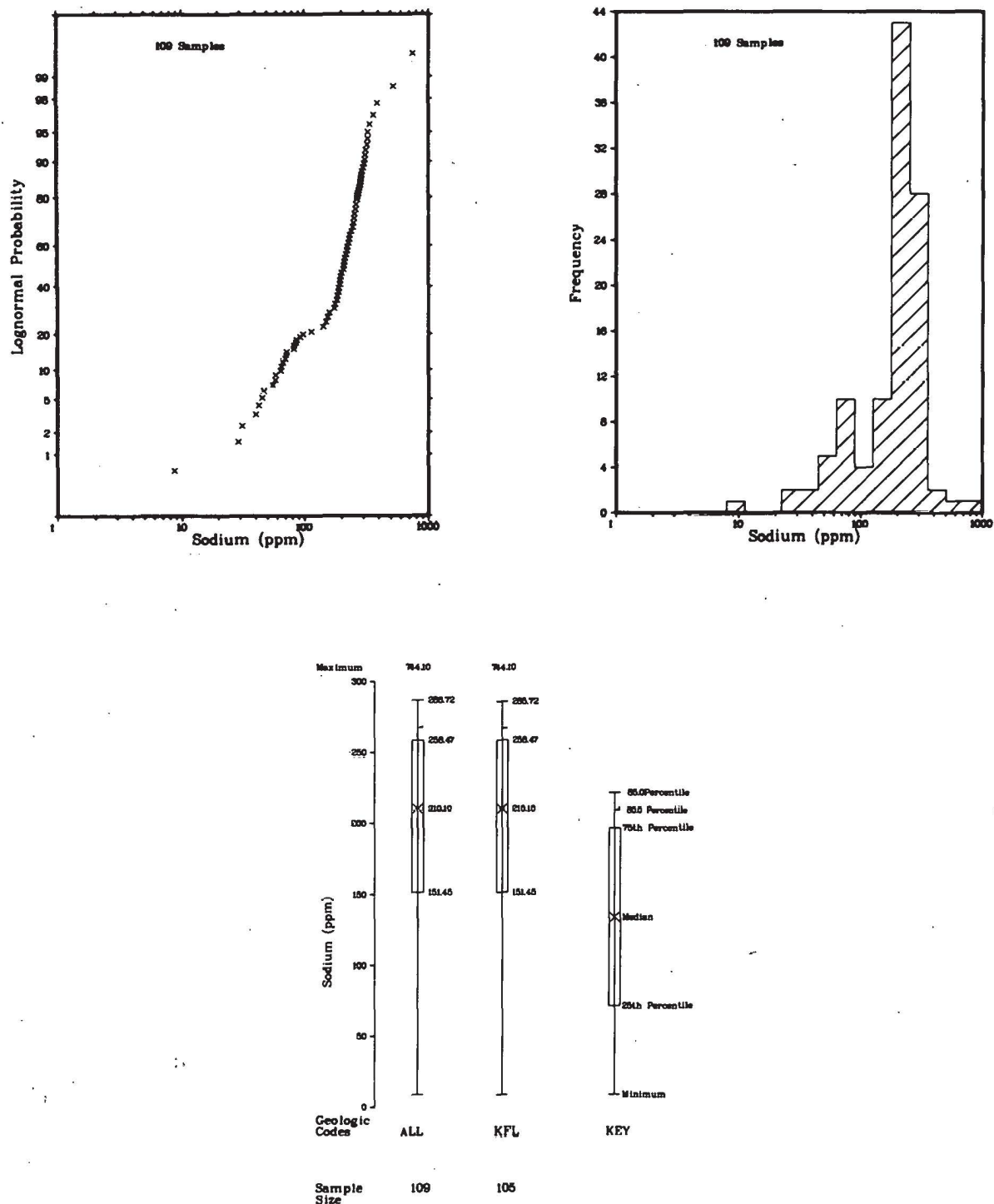
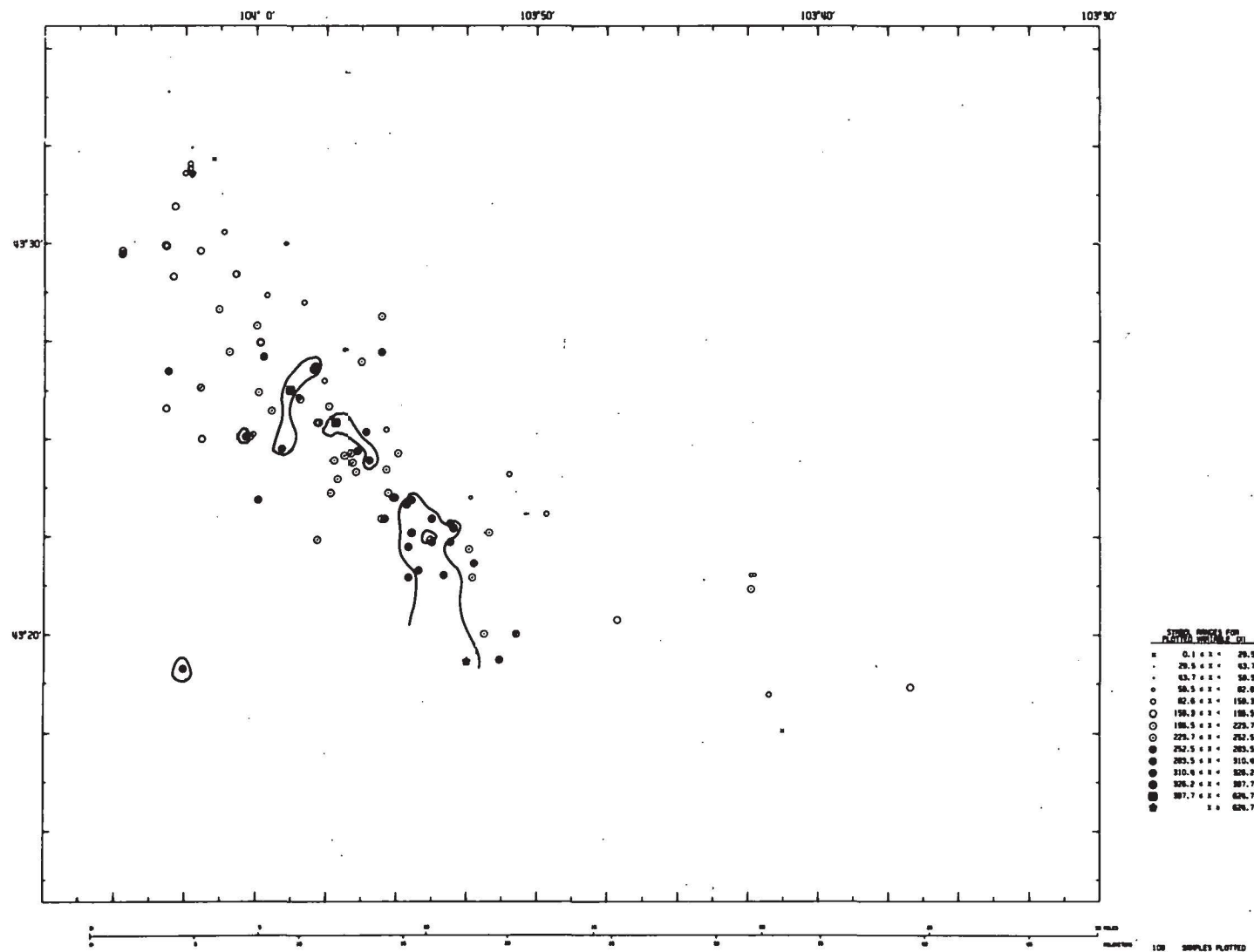


Figure A-12a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR SODIUM (PPM)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-34

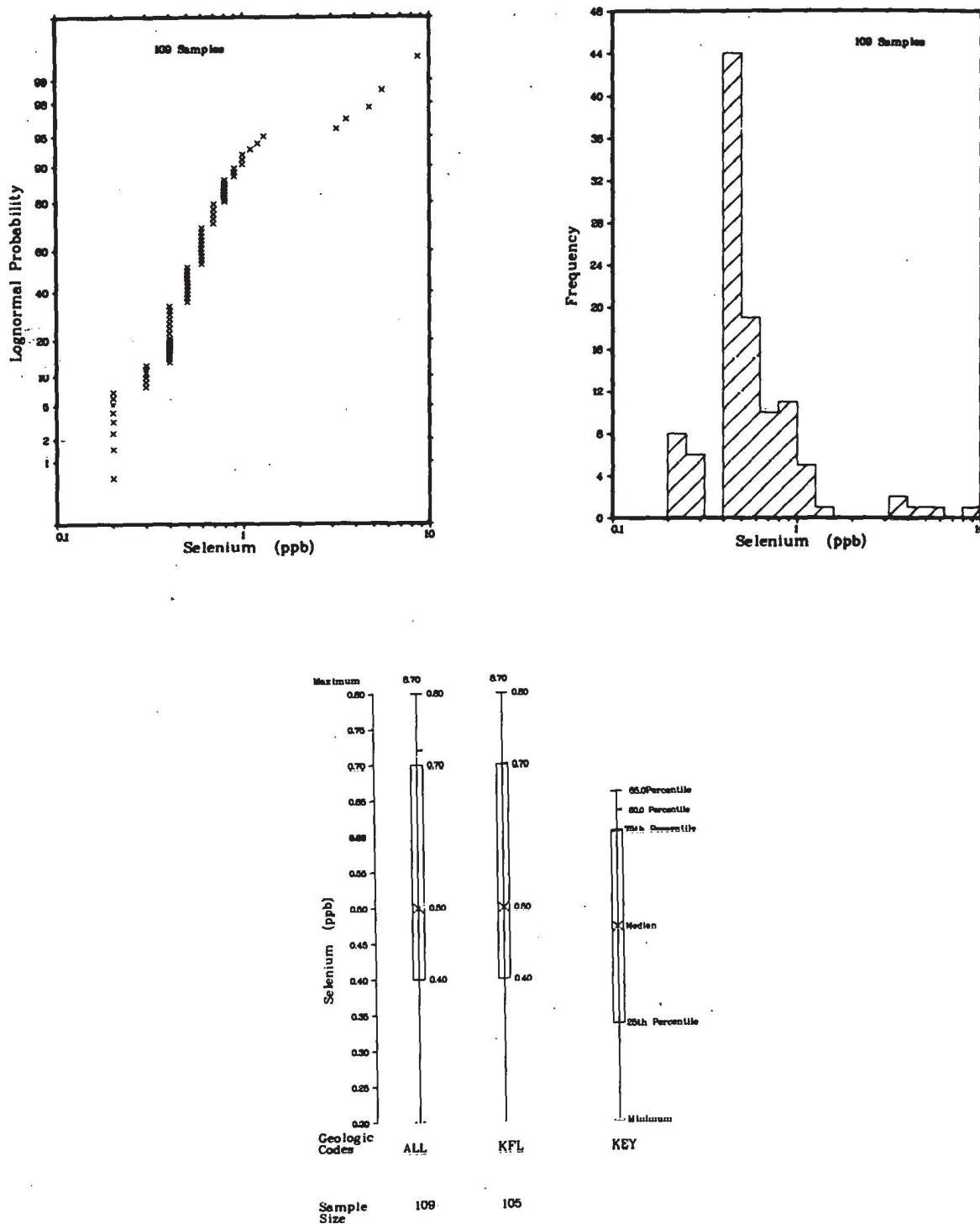


Figure A-13a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR SELENIUM (PPB)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

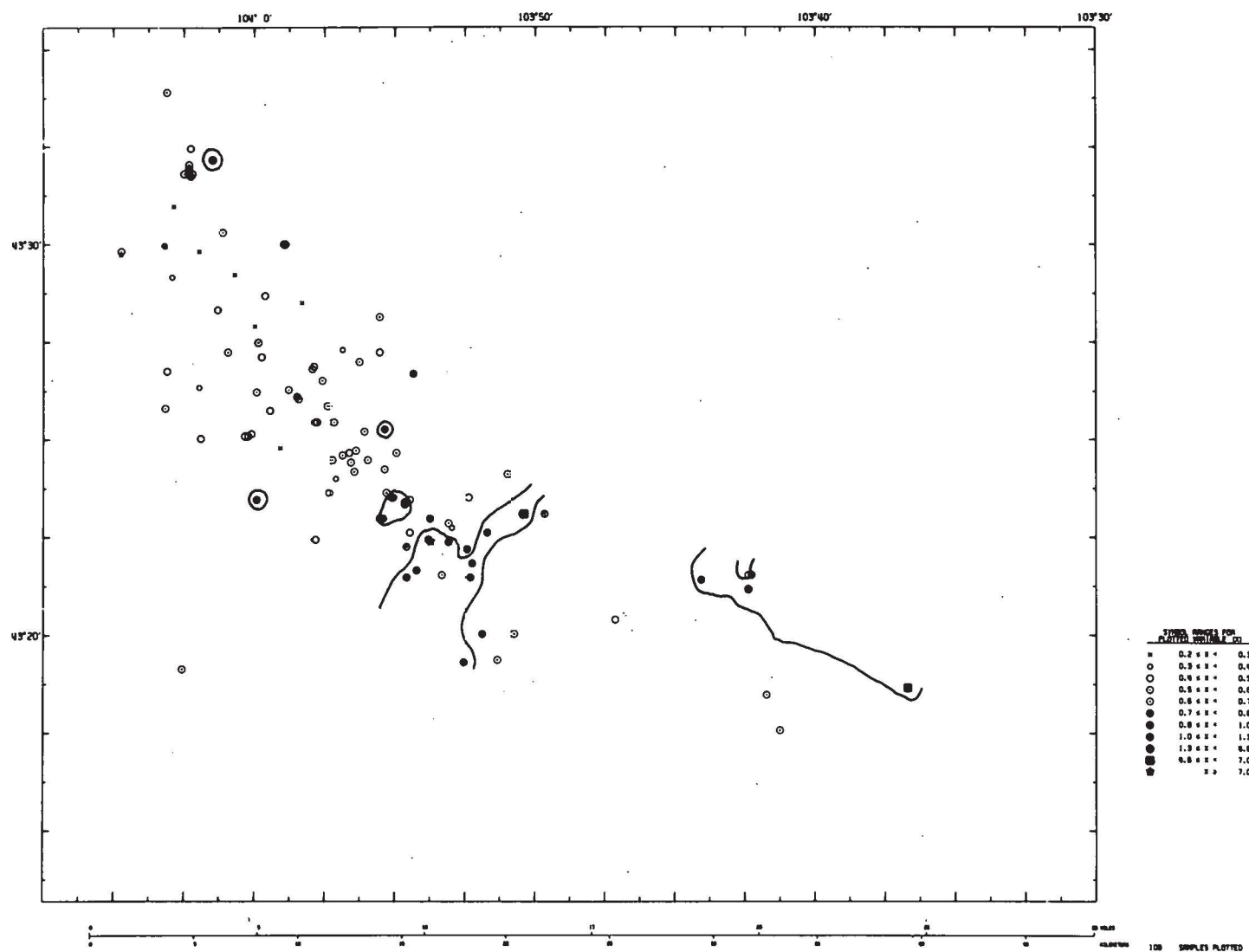


Figure A-13b

GEOCHEMICAL DISTRIBUTION OF SELENIUM (PPB) IN GROUNDWATER
OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

A-36

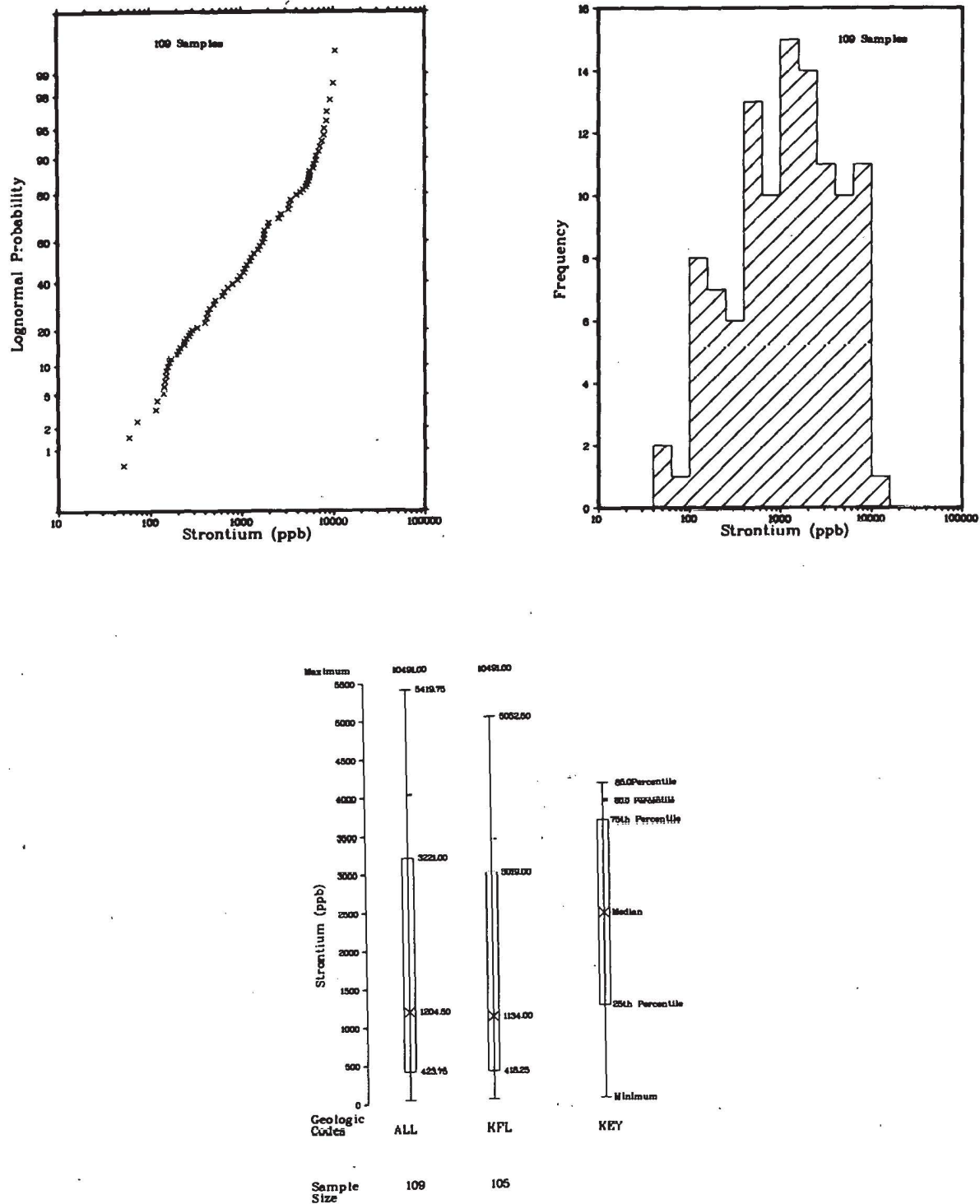
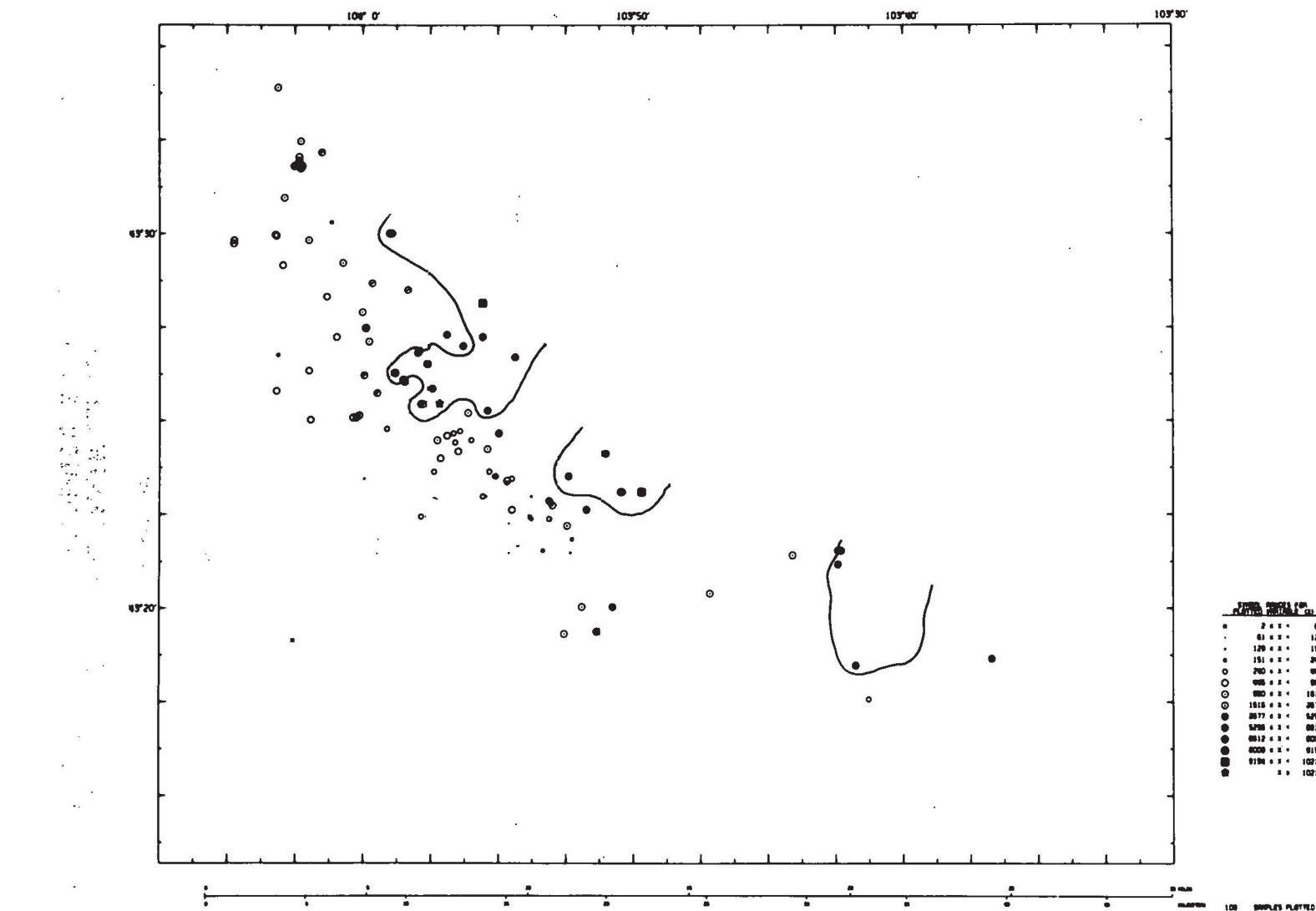


Figure A-14a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR STRONTIUM (PPB)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-38

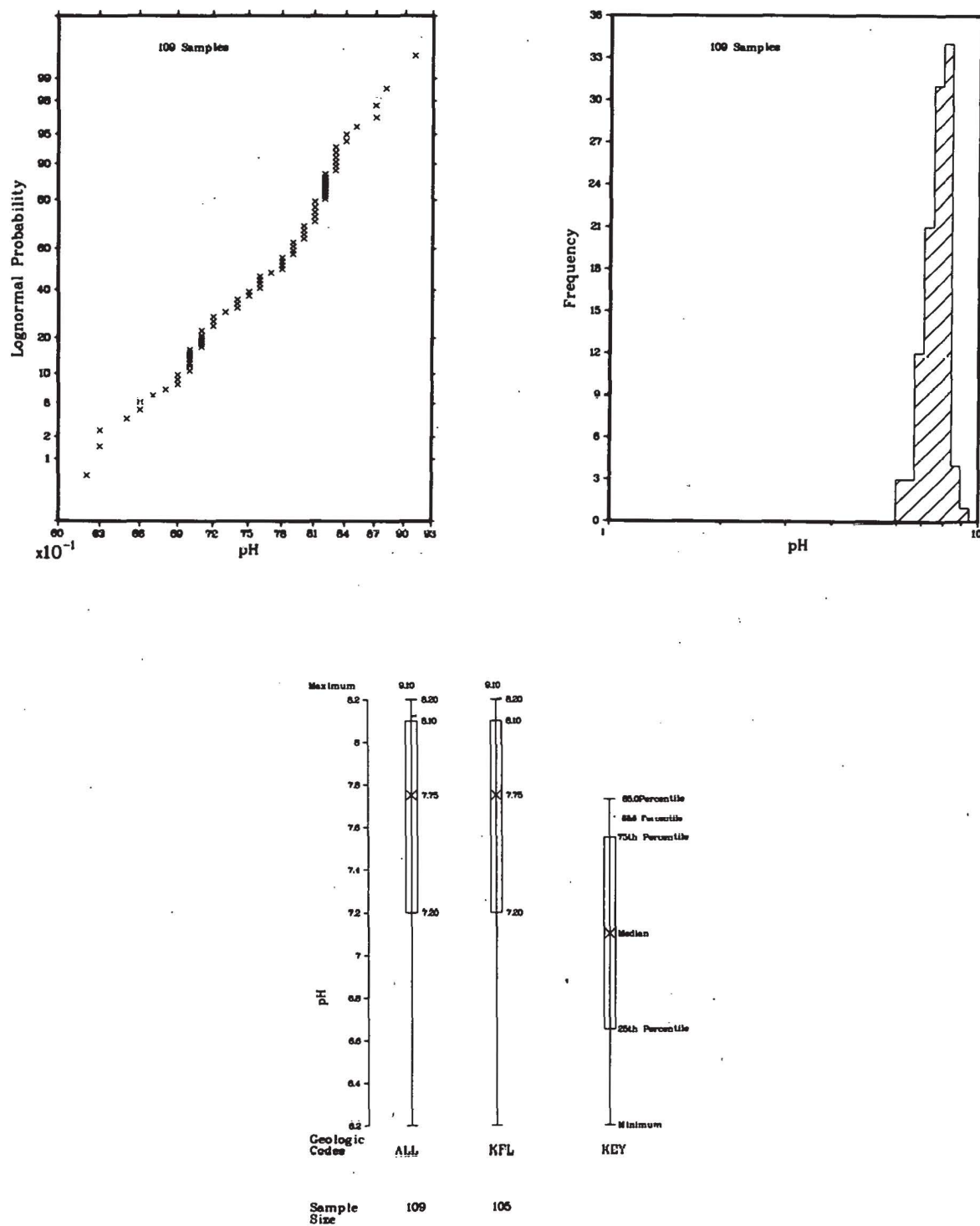
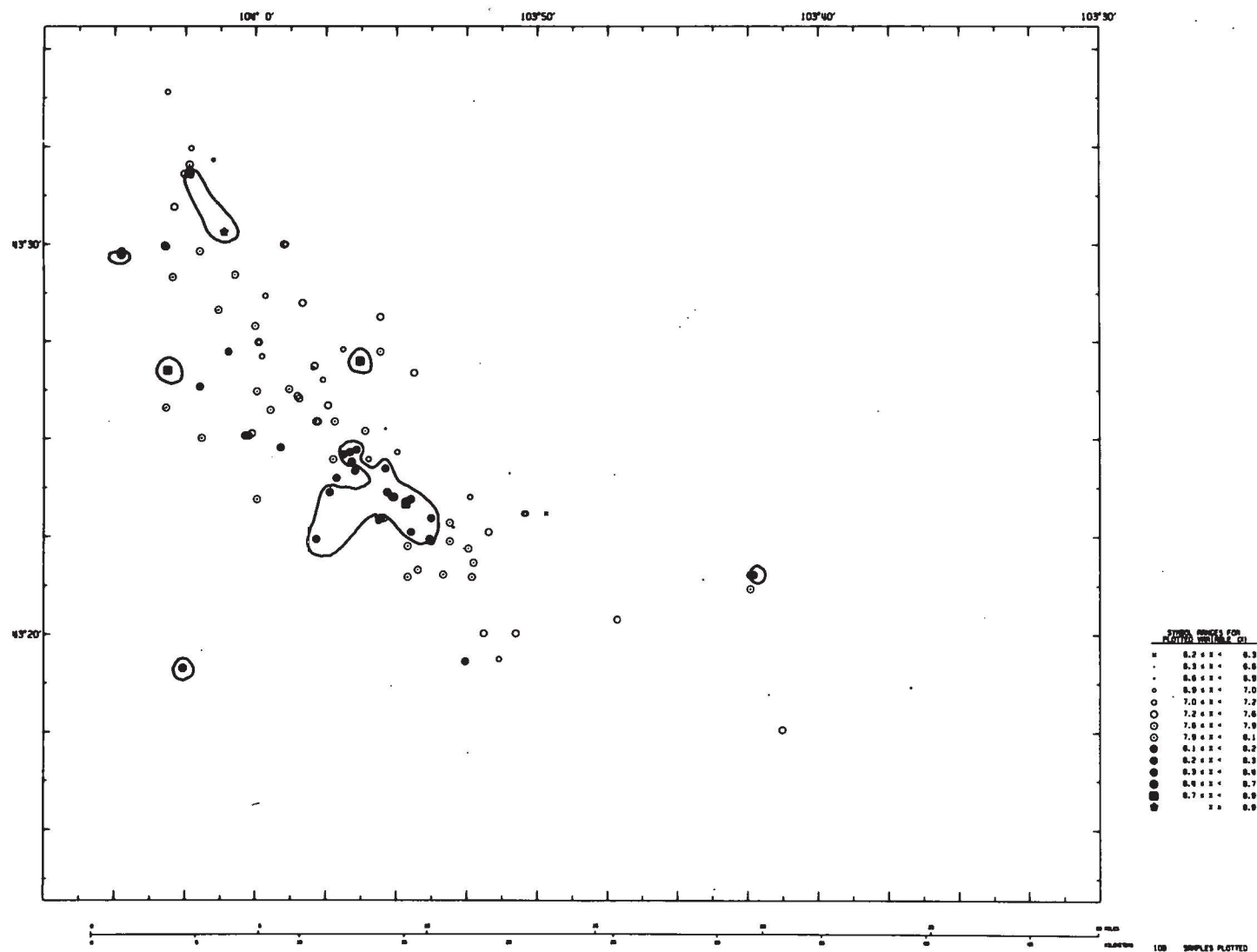


Figure A-15a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR pH
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING



A-40

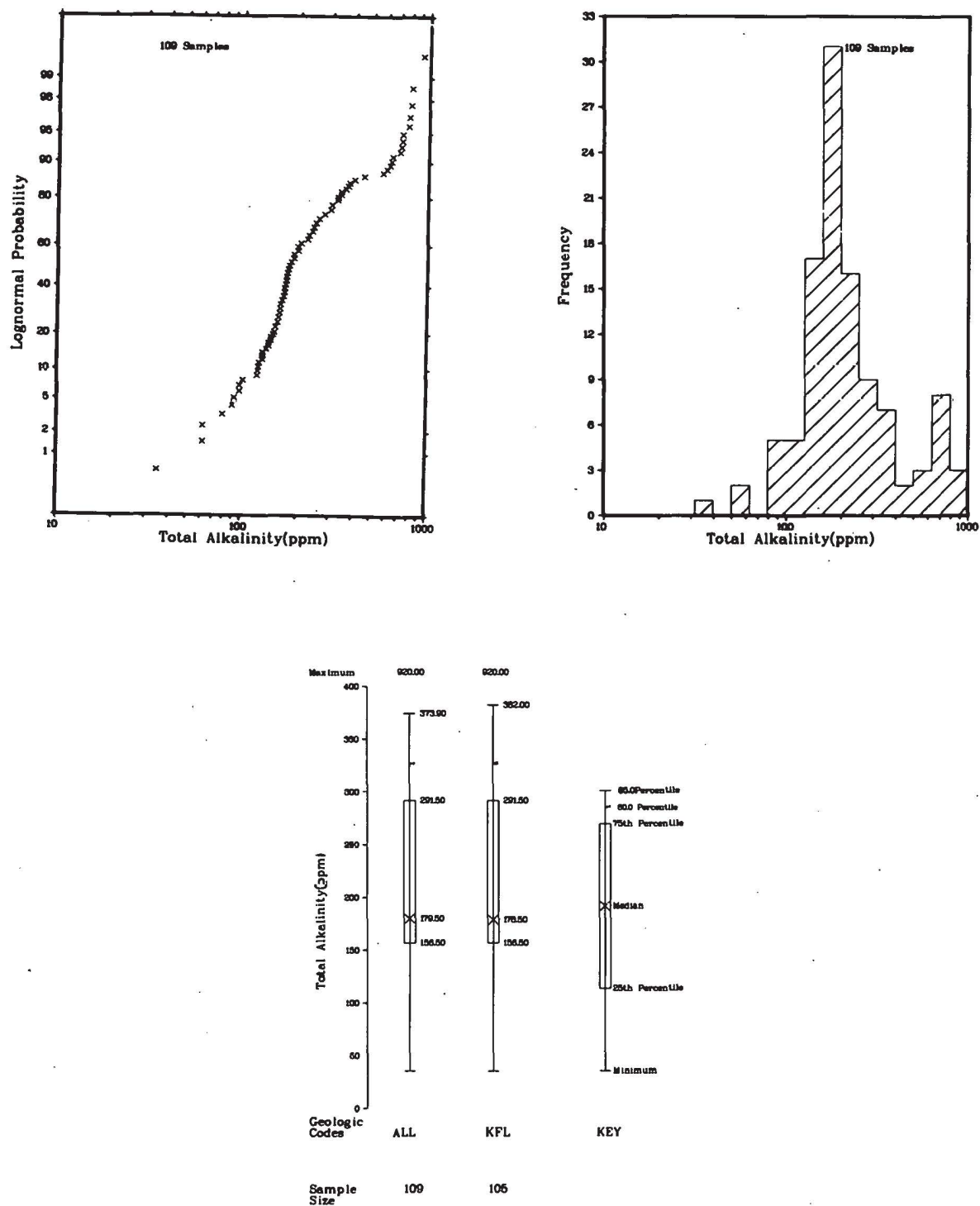


Figure A-16a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR SULFATE (PPM)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

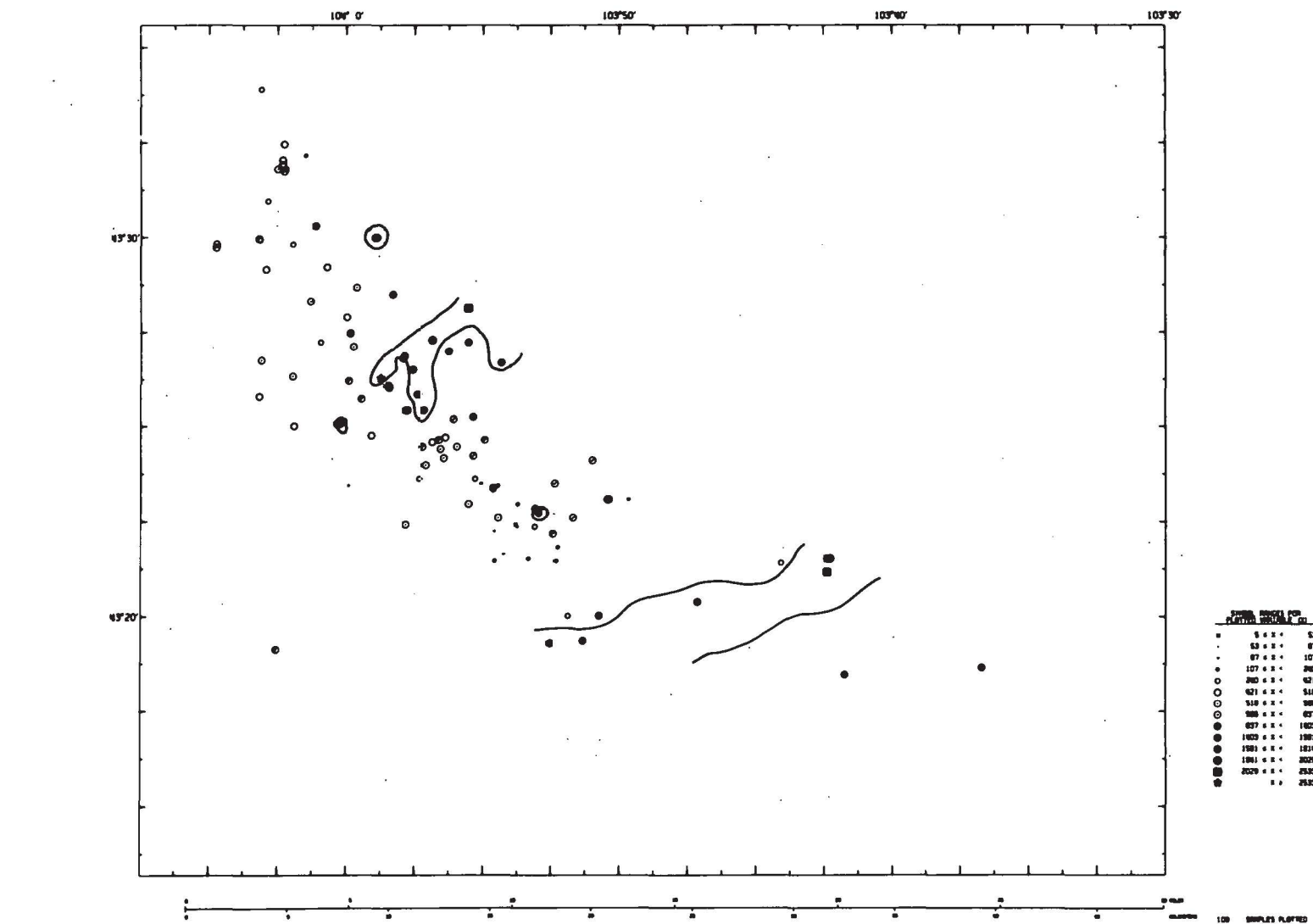


Figure A-16b

GEOCHEMICAL DISTRIBUTION OF SULFATE (PPM) IN GROUNDWATER
OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

A-42

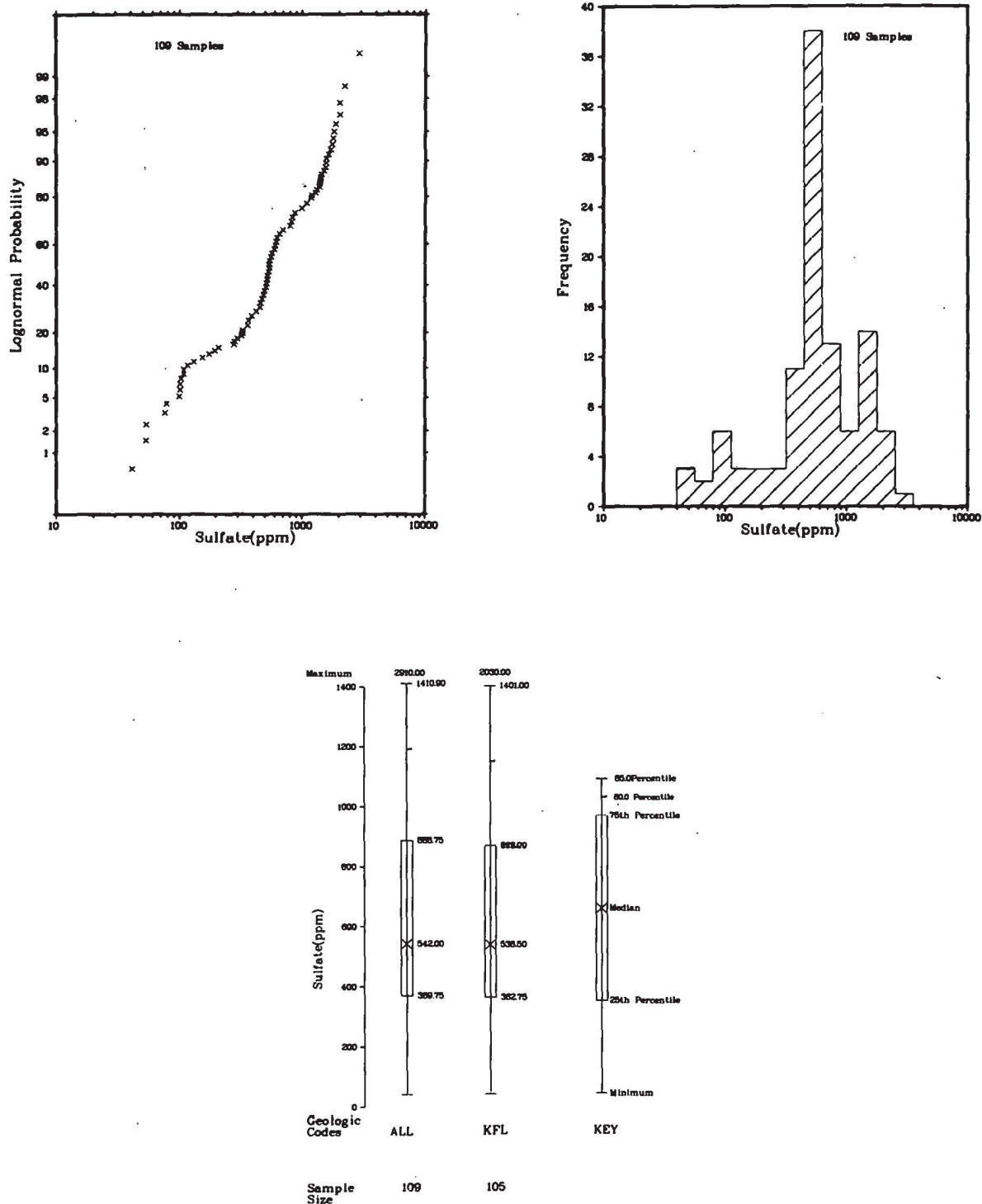


Figure A-17a

PROBABILITY, FREQUENCY, AND PERCENTILE PLOTS FOR TOTAL ALKALINITY (PPM)
IN GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

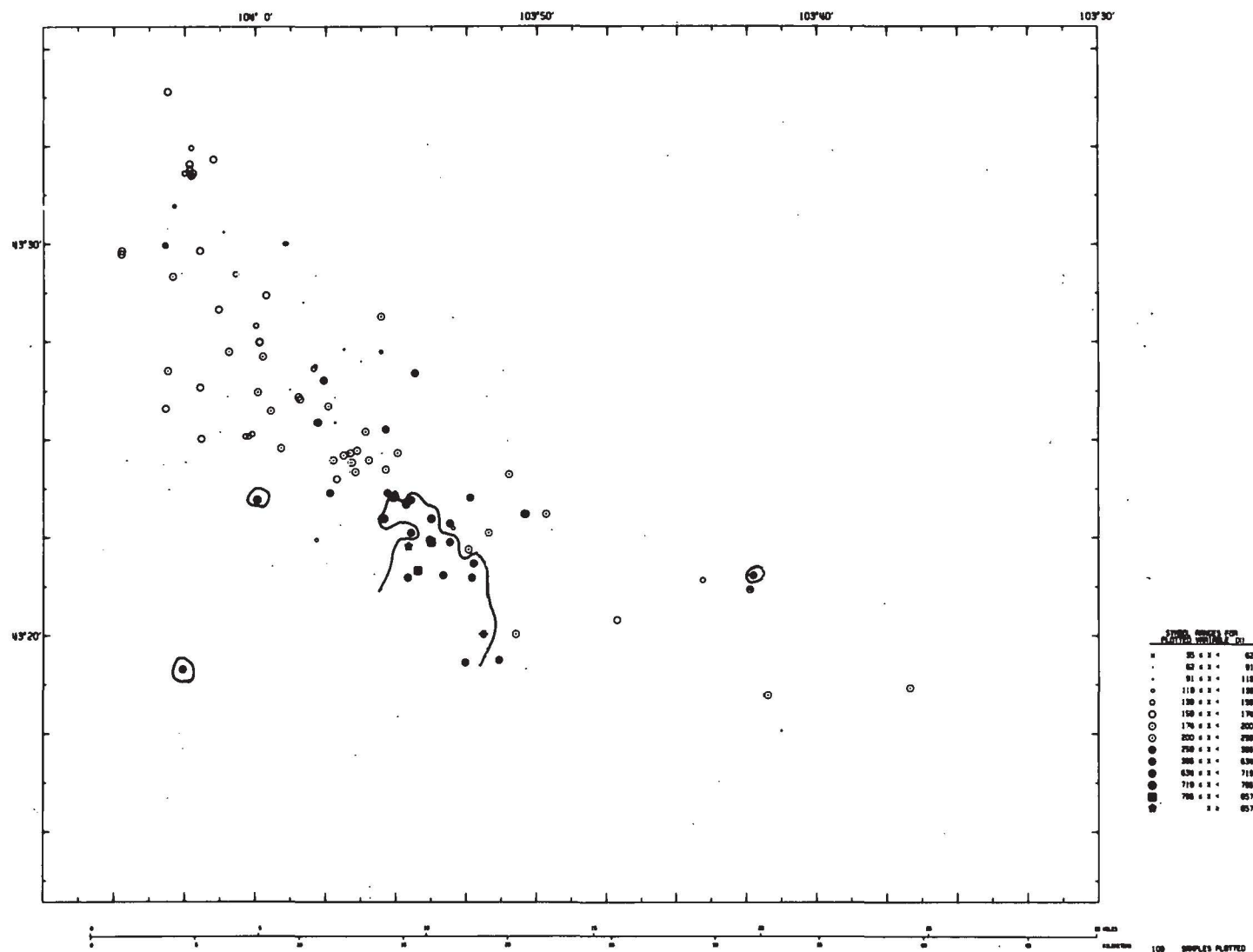


Table A-3

PARTIAL DATA LISTING FOR GROUNDWATER OF THE EDMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDMONT DETAILED SURVEY GROUNDWATER															
OR SAMPLE NUMBER	D. O. ST LAT	E. SAMPLE LONG	NUMER L TY REP	U (PPB)	SP UMHUS/CM	CA (PPM)	MG (PPM)	PH	SC4 (PPM)	AS (PPB)	MG (PPB)	SE (PPB)	V (PPB)	T-AK (PPM)	
405089	46-43.500	-103.582	-3-03-	14.	3000	450.	95.	7.0	880	<0.5	<4	0.7	<4	130	
405090	46-43.500	-103.583	-3-03-	15.	3000	510.	98.	7.2	1700	<0.5	<4	0.5	<4	120	
405096	46-43.458	-103.598	-3-03-	0.70	1500	69.	24.	7.1	540	1.1	<4	0.6	<4	160	
405225	46-43.340	-103.786	-3-03-	<0.20	4100	360.	260.	7.2	1800	<0.5	9	0.4	<4	170	
405311	46-43.355	-103.707	-3-03-	0.68	4700	470.	140.	8.1	1800	<0.5	<4	0.5	<4	50	
405312	46-43.359	-103.705	-3-03-	45.	3700	450.	150.	8.3	1500	0.5	<4	0.6	<4	370	
405328	46-43.308	-103.696	-3-03-	1.5	2500	220.	120.	6.5	1100	<0.5	7	0.5	11	260	
405330	46-43.293	-103.688	-3-01-	6.2	290	46.	10.	7.2	53	8.4	<4	0.6	15	58	
405356	46-43.357	-103.735	-3-01-	37.	1400	180.	56.	6.3	320	1.5	5	0.6	<4	160	
405357	46-43.353	-103.707	-3-03-	110.	4600	350.	280.	8.0	2800	1.4	7	1.3	<4	340	
405379	46-43.311	-103.612	-3-03-	30.	3000	250.	89.	6.6	1100	0.5	7	4.8	<4	170	
406430	46-43.447	-103.566	-3-03-	4.4	3200	150.	57.	6.5	1400	0.7	12	0.6	<4	140	
406432	46-43.389	-103.511	-3-03-	<0.20	1700	5.6	4.3	8.7	280	0.5	12	0.6	4	710	
406438	46-43.390	-103.511	-3-01-	0.45	2300	67.	41.	7.6	700	1.1	<4	0.8	<4	300	
406439	46-43.392	-103.518	-3-03-	0.36	1100	8.5	4.1	8.1	100	0.5	7	0.6	<4	210	
406440	46-43.392	-103.519	-3-03-	0.20	1300	5.5	2.8	8.3	78	<0.5	<4	0.7	5	450	
406441	46-43.394	-103.522	-3-03-	<0.20	1400	10.	4.0	8.2	110	<0.5	<4	0.6	<4	300	
406442	46-43.323	-103.556	-3-03-	<0.20	3300	180.	73.	7.0	1400	1.6	<4	0.6	<4	260	
406443	46-43.322	-103.576	-3-03-	<0.20	5600	20.	7.6	8.1	1400	<0.5	11	0.5	<4	570	
406444	46-43.358	-103.510	-3-03-	0.25	1800	1.0	1.5	8.0	130	48.	<4	1.0	4	720	
406445	46-43.361	-103.504	-3-03-	<0.20	2000	1.4	3.0	7.8	76	31.	<4	1.0	<4	810	
406446	46-43.383	-103.524	-3-03-	<0.20	1900	2.2	4.0	7.9	53	1.0	7	1.2	7	770	
406447	46-43.383	-103.526	-3-03-	<0.20	1700	14.	4.2	8.4	140	1.0	7	0.4	<4	140	
406448	46-43.394	-103.556	-3-03-	<0.20	1400	12.	5.2	8.2	100	1.4	<4	0.4	4	310	
406449	46-43.400	-103.552	-3-03-	0.25	1700	21.	6.8	8.1	170	1.8	<4	0.3	4	170	
406450	46-43.408	-103.554	-3-03-	0.42	1800	44.	16.	7.9	100	2.5	5	0.5	<4	180	
406451	46-43.413	-103.585	-3-03-	<0.20	1400	12.	5.8	8.1	420	<0.5	15	0.2	4	170	
406452	46-43.418	-104.006	-3-03-	<0.20	1600	37.	13.	8.1	450	0.6	8	0.4	8	140	
406454	46-43.418	-104.004	-3-01-	3.9	3000	270.	84.	7.2	1400	1.2	<4	0.4	<4	160	
406455	46-43.419	-104.002	-3-01-	0.82	2400	150.	74.	7.4	1100	<0.5	<4	0.4	<4	150	
406456	46-43.315	-104.043	-3-03-	0.44	2200	2.7	0.8	8.5	650	<0.5	<4	0.6	5	380	
406457	46-43.430	-104.053	-3-03-	2.0	1500	36.	12.	7.9	500	1.7	<4	0.5	<4	170	
406458	46-43.417	-104.032	-3-03-	1.1	1500	35.	13.	8.0	450	0.5	5	0.4	7	170	
406459	46-43.391	-103.599	-3-03-	0.46	1800	2.1	3.8	7.9	100	<0.5	10	0.5	<4	720	
406460	46-43.374	-103.564	-3-03-	0.53	1600	13.	2.7	8.3	520	1.2	8	0.4	<4	120	
406461	46-43.334	-103.646	-3-03-	0.39	3100	160.	65.	7.5	1300	<0.5	<4	0.6	<4	240	
406462	46-43.358	-103.672	-3-03-	0.40	1900	1.9	4.0	7.6	210	54.	<4	0.5	<4	640	
406463	46-43.364	-103.671	-3-03-	0.54	1800	2.8	5.8	7.6	200	46.	<4	1.0	6	620	
406464	46-43.370	-103.674	-3-03-	2.1	2400	65.	40.	7.7	230	1.7	<4	0.7	<4	230	
406465	46-43.402	-103.650	-3-03-	7.1	2100	200.	76.	6.3	230	0.5	<4	0.6	<4	250	
406466	46-43.385	-103.640	-3-03-	20.	1800	150.	77.	7.0	620	1.0	7	5.6	<4	300	
406467	46-43.385	-103.641	-3-03-	23.	1800	170.	74.	7.1	600	0.6	4	3.2	<4	250	
406468	46-43.392	-103.673	-3-03-	21.	2200	170.	99.	7.1	630	0.6	7	0.4	<4	330	
406469	46-43.383	-103.696	-3-03-	0.27	2100	2.1	4.6	8.2	110	1.1	4	0.7	<4	780	
406470	46-43.391	-103.608	-3-03-	<0.20	1900	5.6	5.2	8.3	160	0.5	<4	0.4	4	630	
406471	46-43.377	-103.508	-3-03-	0.35	2100	25.	8.6	8.2	520	4.5	<4	0.4	4	360	
406472	46-43.371	-103.510	-3-03-	0.34	2100	1.6	3.5	8.0	100	1.5	9	0.7	<4	920	
406473	46-43.355	-103.689	-3-03-	0.44	1900	2.6	4.1	7.9	120	1.5	<4	0.5	<4	700	
406474	46-43.334	-103.665	-3-03-	0.25	1900	45.	37.	7.4	350	17.	<4	0.7	<4	400	
406475	46-43.499	-104.053	-3-03-	4.3	1100	43.	13.	7.6	280	<0.5	8	0.2	8	120	
406476	46-43.516	-104.048	-3-03-	2.2	1300	69.	21.	7.4	370	1.1	10	0.2	<4	140	
406477	46-43.497	-104.033	-3-03-	1.3	1300	53.	21.	7.6	360	2.0	<4	0.2	<4	160	
406478	46-43.458	-103.598	-3-03-	0.33	1400	72.	25.	7.5	380	1.7	<4	0.4	<4	160	
406479	46-43.530	-104.037	-3-03-	0.22	1200	130.	41.	6.6	320	0.7	5	0.4	<4	180	
406481	46-43.532	-104.039	-3-03-	7.5	1300	120.	33.	7.0	460	0.5	9	0.7	<4	160	

Table A-3, Continued

PARTIAL DATA LISTING FOR GROUNDWATER OF THE EDGEMONT DETAILED GEOCHEMICAL SURVEY, SOUTH DAKOTA; WYOMING

EDGEMONT DETAILED SURVEY GROUNDWATER														
OR SAMPLE NUMBER	D. O. E. ST LAT	SAMPLE LONG	NUMBER L TY REP	U (PPB)	SP UMHOS/CM	CA (PPM)	MG (PPM)	PH	SC4 (FFM)	AS (FPE)	MO (PPB)	SE (PFE)	V (PPE)	T-AK (PPM)
406482	46-43.529	-104.038	-3-03-	9.5	1200	120.	37.	6.9	450	0.6	<4	0.4	<4	180
406483	46-43.530	-104.039	-3-03-	0.49	850	44.	19.	8.2	330	0.6	<4	0.6	<4	35
406484	46-43.530	-104.042	-3-03-	6.4	1200	120.	37.	7.2	550	0.5	11	0.5	4	150
406485	46-43.534	-104.039	-3-03-	1.5	1200	61.	19.	7.6	460	0.5	<4	0.6	<4	160
406486	46-43.541	-104.038	-3-03-	11.	1100	140.	43.	7.1	470	0.5	<4	0.4	<4	150
406487	46-43.565	-104.052	-3-03-	4.5	1100	110.	38.	7.1	330	0.5	<4	0.6	<4	160
406488	46-43.536	-104.025	-3-03-	15.	1200	180.	43.	6.9	110	0.5	<4	3.6	<4	160
406489	46-43.505	-104.019	-3-03-	2.0	860	6.2	3.6	9.1	660	0.5	<4	0.5	<4	92
409489	46-43.404	-103.523	-3-03-	<0.20	2000	49.	18.	8.2	670	1.0	<4	0.5	<4	160
409490	46-43.385	-103.528	-3-03-	2.1	3400	320.	150.	6.2	1800	0.6	<4	0.7	<4	200
409491	46-43.374	-103.597	-3-03-	<0.20	1100	2.8	1.0	8.3	41	0.5	5	0.6	4	340
409492	46-43.373	-103.596	-3-03-	<0.20	2000	4.0	4.3	7.8	55	4.6	<4	8.7	4	800
409493	46-43.373	-103.585	-3-03-	<0.20	2100	5.1	8.3	7.9	360	11.	<4	0.6	<4	600
409494	46-43.411	-103.544	-3-03-	0.43	1600	16.	5.9	8.2	620	0.6	<4	0.4	<4	180
409495	46-43.410	-103.548	-3-03-	0.85	1700	22.	7.4	8.2	510	1.4	<4	0.5	7	160
409496	46-43.407	-103.543	-3-03-	0.21	1700	16.	6.2	8.2	560	0.5	5	0.5	<4	190
409498	46-43.403	-103.541	-3-03-	0.26	1600	15.	7.8	8.1	540	0.6	8	0.6	<4	200
409499	46-43.434	-103.574	-3-03-	<0.20	1600	33.	13.	7.9	570	0.6	7	0.5	<4	170
409500	46-43.435	-103.575	-3-03-	0.75	2500	200.	79.	7.4	1260	0.5	<4	0.7	<4	240
409501	46-43.379	-103.583	-3-03-	32.	3600	100.	41.	6.7	1660	<0.5	19	0.3	<4	120
409502	46-43.411	-103.516	-3-03-	0.41	2700	120.	46.	7.0	750	0.5	<4	0.6	<4	240
409503	46-43.421	-103.523	-3-03-	2.9	2700	270.	93.	6.8	1300	0.6	<4	0.6	<4	330
409504	46-43.445	-103.506	-3-03-	5.3	3100	360.	150.	7.2	1600	<0.5	<4	0.7	<4	300
409505	46-43.450	-103.538	-3-03-	<0.20	2000	62.	32.	8.8	650	<0.5	<4	0.5	<4	62
409506	46-43.454	-103.526	-3-03-	0.20	3000	150.	63.	7.7	1200	0.6	12	0.4	4	130
409507	46-43.469	-103.526	-3-03-	8.0	3900	310.	190.	7.3	2200	<0.5	25	0.6	<4	230
409508	46-43.455	-103.548	-3-03-	0.59	3400	400.	170.	7.1	2000	<0.5	<4	0.3	<4	96
409509	46-43.442	-103.560	-3-03-	4.3	3000	310.	120.	7.0	1600	0.7	5	0.6	<4	280
409510	46-43.448	-103.565	-3-03-	3.5	3200	140.	51.	7.4	1600	<0.5	7	0.5	<4	130
409511	46-43.424	-103.563	-3-03-	0.76	2000	110.	43.	7.5	820	0.5	<4	0.6	<4	230
409512	46-43.424	-103.564	-3-03-	0.37	1400	56.	23.	7.8	530	1.1	<4	0.4	<4	160
409513	46-43.424	-103.553	-3-03-	0.45	3200	83.	34.	8.0	1500	<0.5	7	0.5	4	100
409514	46-43.431	-103.557	-3-03-	0.78	2700	200.	86.	7.5	1400	<0.5	4	0.5	<4	180
409515	46-43.377	-103.562	-3-03-	<0.20	2200	110.	49.	7.4	800	1.0	21	1.1	<4	240
409516	46-43.381	-103.585	-3-03-	9.7	2500	120.	58.	7.6	1000	1.0	5	0.6	<4	270
409517	46-43.406	-103.533	-3-03-	<0.20	1700	10.	6.5	7.0	560	0.5	5	0.5	<4	170
409518	46-43.420	-103.535	-3-03-	<0.20	1800	44.	15.	7.8	620	1.0	<4	0.6	<4	200
409519	46-43.412	-103.540	-3-03-	<0.20	1600	17.	6.2	8.2	510	<0.5	<4	0.6	<4	150
409520	46-43.438	-103.580	-3-03-	<0.20	5900	330.	100.	7.9	2500	<0.5	8	0.5	<4	80
409521	46-43.437	-103.599	-3-03-	0.32	1600	52.	17.	7.8	610	0.6	<4	0.5	<4	210
409522	46-43.429	-103.591	-3-03-	0.67	1800	48.	17.	7.8	660	0.7	<4	0.4	<4	200
409523	46-43.454	-104.016	-3-03-	7.9	1500	33.	11.	8.1	420	1.1	10	0.6	<4	170
409524	46-43.439	-104.033	-3-03-	0.33	1600	23.	8.1	8.1	550	1.0	<4	0.3	7	170
409525	46-43.446	-104.052	-3-03-	0.24	1600	6.4	2.2	8.7	530	1.4	4	0.4	<4	190
409526	46-43.472	-104.022	-3-03-	16.	1400	34.	12.	8.0	520	<0.5	4	0.4	<4	170
409527	46-43.457	-104.075	-3-03-	2.8	1500	26.	8.3	8.1	540	2.6	6	0.5	<4	180
409528	46-43.496	-104.079	-3-03-	3.6	1500	25.	8.4	8.4	510	2.0	12	0.2	<4	170
409529	46-43.486	-104.045	-3-03-	6.4	1400	43.	16.	7.9	460	1.6	7	0.3	<4	180
409530	46-43.452	-103.596	-3-03-	0.60	1700	43.	15.	7.1	570	0.5	7	0.4	<4	210
409532	46-43.475	-103.572	-3-03-	0.28	1800	170.	77.	7.5	640	<0.5	<4	0.2	<4	62
409533	46-43.478	-103.594	-3-03-	0.45	1300	72.	25.	7.1	520	0.6	<4	0.4	<4	170
409534	46-43.465	-104.000	-3-03-	0.50	1400	52.	18.	7.6	510	1.1	<4	0.2	<4	150
409535	46-43.487	-104.012	-3-03-	2.1	1300	51.	19.	7.7	450	1.2	<4	0.2	<4	140
409536	46-43.499	-104.054	-3-03-	2.1	1500	38.	14.	8.0	460	0.6	<4	0.3	<4	150

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APPENDIX B
STREAM SEDIMENT

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