Appendix B-4

Box Plots of Groundwater Data

(Compact Disk)

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Water Quality Parameters and Major Ions
Metals
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Water Quality Parameters and Major Ions
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Radiochemicals

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Water Quality Parameters and Major Ions
Metals
Radiochemicals

Methodology Used to Construct Boxplots

Four sets of boxplots for groundwater data were constructed as follows:

1. Background data by well.
2. Process Area data by well.
3. Onsite data (excluding the Process Area) by depth.
4. Offsite data by location (i.e., either north or northwest of the evaporation ponds).

If data were available, boxplots were produced for 29 analytes, which were divided into three groups as follows:

1. Water quality parameters and major ions
2. Metals
3. Radiochemicals

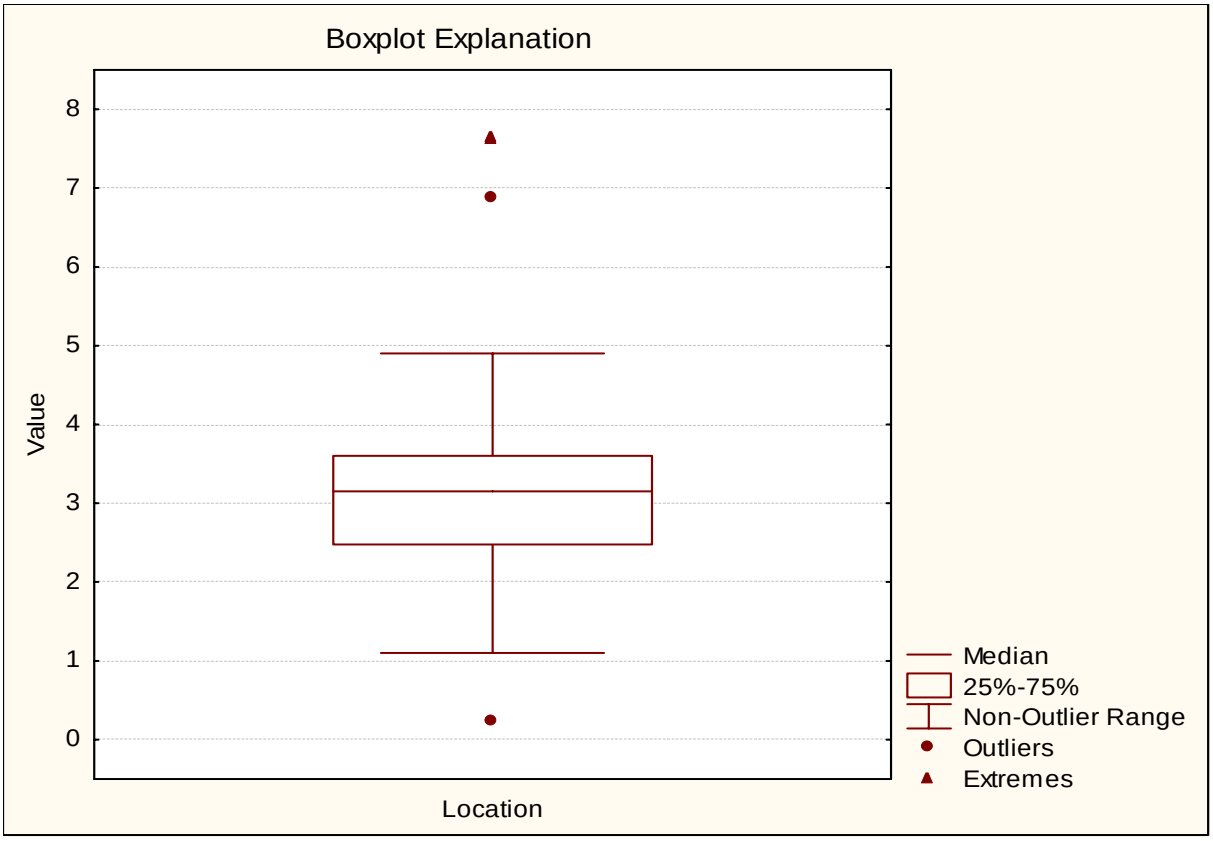
Boxplots are an ideal tool for evaluating differences between two groups of environmental data. They are also useful for examining data spread, central tendency, skewness, and the presence or absence of outliers. The type of box plot used in this analysis is the standard box plot. The box itself contains the center 50 percent of the data (i.e., the interquartile range), and the median is indicated as a horizontal line within the box. The top edge of the box is the 75th percentile and the bottom edge is the 25th percentile. Vertical lines, sometimes called whiskers, extend to the last observation within one step beyond either end of the box. A step is 1.5 times the height of the box. Data points that fall outside one step are considered to be "outliers", and values that fall outside of two steps are labeled "extreme". Outliers and extremes are individually plotted. Boxplots were constructed using Statistica (StatSoft, 2004).

Reference

StatSoft, Inc. 2004. STATISTICA for Windows. Version 7.1**,** at http://www.statsoft.com.

Key to Appendix B-4 - Boxplots of Groundwater Data

Boxplot Explanation



Key to Appendix B-4 - Boxplots of Groundwater Data

Analyte Information

Analyte Name	Analyte Abbreviation	Units	Grouping
Calcium	CA	mg/L	Water Quality Parameters and Major Ions
Chloride	CL	mg/L	Water Quality Parameters and Major Ions
Fluoride	F	ug/L	Water Quality Parameters and Major Ions
Magnesium	MG	mg/L	Water Quality Parameters and Major Ions
Nitrate as N	NO3N	mg/L	Water Quality Parameters and Major Ions
pH	PH	SU	Water Quality Parameters and Major Ions
Potassium	K	mg/L	Water Quality Parameters and Major Ions
Sodium	NA	mg/L	Water Quality Parameters and Major Ions
Sulfate	SO4	mg/L	Water Quality Parameters and Major Ions
Total Dissolved Solids	TDS	mg/L	Water Quality Parameters and Major Ions
Aluminum	AL	ug/L	Metals
Arsenic	AS	ug/L	Metals
Barium	BA	ug/L	Metals
Beryllium	BE	ug/L	Metals
Cadmium	CD	ug/L	Metals
Copper	CU	ug/L	Metals
Iron	FE	ug/L	Metals
Lithium	LI	ug/L	Metals
Manganese	MN	ug/L	Metals
Molybdenum	MO	ug/L	Metals
Selenium	SE	ug/L	Metals
Zinc	ZN	ug/L	Metals
Radium-226	RA-226	Pci/L	Radiochemicals
Radium-228	RA-228	Pci/L	Radiochemicals
Strontium	SR	ug/L	Radiochemicals
Thorium-228	TH-228	Pci/L	Radiochemicals
Thorium-230	TH-230	Pci/L	Radiochemicals
Thorium-232	TH-232	Pci/L	Radiochemicals
Uranium	U-CONC	ug/L	Radiochemicals

Key to Appendix B-4 - Boxplots of Groundwater Data

Dataset Descriptions

Major Grouping	StationID	Location	Depth
Background	B/W-13	n/a	n/a
Background	B/W-14	n/a	n/a
Background	B/W-15	n/a	n/a
Process Area	PA-MW-1	n/a	n/a
Process Area	PA-MW-2	n/a	n/a
Process Area	PA-MW-3	n/a	n/a
Onsite	MW-01	n/a	Shallow
Onsite	MW-02	n/a	Shallow
Onsite	MW-04	n/a	Shallow
Onsite	MW-05	n/a	Shallow
Onsite	MW-2002-2	n/a	Shallow
Onsite	UW-1	n/a	Shallow
Onsite	WW-01	n/a	Shallow
Onsite	WW-02	n/a	Shallow
Onsite	B/W-11D	n/a	Deep
Onsite	W5DB	n/a	Deep
Offsite	MW-2002-1	North of Evap. Ponds	Shallow
Offsite	D5AC-1	North of Evap. Ponds	Shallow
Offsite	PW-01	North of Evap. Ponds	Shallow
Offsite	PW-02	North of Evap. Ponds	Shallow
Offsite	PW-03	North of Evap. Ponds	Shallow
Offsite	PW-04	North of Evap. Ponds	Shallow
Offsite	PW-05	North of Evap. Ponds	Shallow
Offsite	PW-06	North of Evap. Ponds	Shallow
Offsite	PW-07	North of Evap. Ponds	Shallow
Offsite	PW-08	North of Evap. Ponds	Shallow
Offsite	W4CB-2	North of Evap. Ponds	Shallow
Offsite	W5AA-3	North of Evap. Ponds	Shallow
Offsite	W5AB-2	North of Evap. Ponds	Shallow
Offsite	Offsite	Northwest of Evap. Ponds	Shallow
Offsite	Offsite	Northwest of Evap. Ponds	Shallow
Offsite	Offsite	Northwest of Evap. Ponds	Shallow
Offsite	Offsite	Northwest of Evap. Ponds	Shallow
Offsite	W5AA-1	North of Evap. Ponds	Intermediate
Offsite	W5AB-3	North of Evap. Ponds	Intermediate
Offsite	B/W-06D	Northwest of Evap. Ponds	Intermediate
Offsite	B/W-07	Northwest of Evap. Ponds	Intermediate
Offsite	B/W-08D	Northwest of Evap. Ponds	Intermediate
Offsite	B/W-01D	North of Evap. Ponds	Deep
Offsite	B/W-02D	North of Evap. Ponds	Deep
Offsite	B/W-03D	North of Evap. Ponds	Deep

Key to Appendix B-4 - Boxplots of Groundwater Data

Dataset Descriptions

Major Grouping	StationID	Location	Depth
Offsite	B/W-04D	North of Evap. Ponds	Deep
Offsite	B/W-09D	North of Evap. Ponds	Deep
Offsite	B/W-10D	North of Evap. Ponds	Deep
Offsite	W32DC	North of Evap. Ponds	Deep
Offsite	D4BC-1	North of Evap. Ponds	Deep
Offsite	B/W-05D	Northwest of Evap. Ponds	Deep
Offsite	DW-02	North of Evap. Ponds	Domestic
Offsite	DW-04	North of Evap. Ponds	Domestic
Offsite	DW-10	North of Evap. Ponds	Domestic
Offsite	DW-18	North of Evap. Ponds	Domestic
Offsite	DW-36	North of Evap. Ponds	Domestic
Offsite	DW-40	North of Evap. Ponds	Domestic
Offsite	DW-41	North of Evap. Ponds	Domestic
Offsite	DW-43	North of Evap. Ponds	Domestic
Offsite	DW-45	North of Evap. Ponds	Domestic
Offsite	DW-46	North of Evap. Ponds	Domestic
Offsite	DW-52	North of Evap. Ponds	Domestic
Offsite	DW-38	Northwest of Evap. Ponds	Domestic
Offsite	DW-39	Northwest of Evap. Ponds	Domestic
Offsite	DW-42	Northwest of Evap. Ponds	Domestic
Offsite	DW-47	Northwest of Evap. Ponds	Domestic
Offsite	DW-48	Northwest of Evap. Ponds	Domestic
Offsite	DW-49	Northwest of Evap. Ponds	Domestic
Offsite	DW-50	Northwest of Evap. Ponds	Domestic

Table B-4-1. Summary Statistics for Background Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Water Quality Parameters and Major Ions									
B/W-13 | CA	mg/L	5	5	100	48	38	n/a	n/a	42
B/W-14 | CA	mg/L	5	5	100	5.3	4.2	n/a	n/a	4.5
B/W-15 | CA	mg/L	5	5	100	29	20	n/a	n/a	26
B/W-13 | CL	mg/L	5	5	100	57	46	n/a	n/a	50
B/W-14 | CL	mg/L	5	5	100	22	5.6	n/a	n/a	19
B/W-15 | CL	mg/L	5	5	100	13	7.5	n/a	n/a	11
B/W-13 | F	ug/L	5	5	100	840	650	n/a	n/a	760
B/W-14 | F	ug/L	5	5	100	1200	590	n/a	n/a	1000
B/W-15 | F	ug/L	5	5	100	660	470	n/a	n/a	520
B/W-13 | MG	mg/L	5	5	100	8.5	6.6	n/a	n/a	7.3
B/W-14 | MG	mg/L	5	5	100	1.4	1.1	n/a	n/a	1.1
B/W-15 | MG	mg/L	5	5	100	6.4	4.6	n/a	n/a	6.1
B/W-13 | NO3N	mg/L	5	1	20	0.43	0.43	0.41	0.08	0.075
B/W-14 | NO3N	mg/L	5	0	0	n/a	n/a	0.08	0.06	0.040
B/W-15 | NO3N	mg/L	5	2	40	0.08	0.071	0.15	0.08	0.071
B/W-13 | PH	SU	5	5	100	7.94	7.66	n/a	n/a	7.92
B/W-14 | PH	SU	5	5	100	7.91	7.78	n/a	n/a	7.84
B/W-15 | PH	SU	5	5	100	7.69	7.41	n/a	n/a	7.56
B/W-13 | K	mg/L	5	5	100	4.6	3.7	n/a	n/a	3.7
B/W-14 | K	mg/L	5	4	80	2.2	1.7	2.5	2.5	2.0
B/W-15 | K	mg/L	5	5	100	4.1	3.2	n/a	n/a	3.5
B/W-13 | NA	mg/L	5	5	100	83	77	n/a	n/a	81
B/W-14 | NA	mg/L	5	5	100	88	84	n/a	n/a	86
B/W-15 | NA	mg/L	5	5	100	32	28	n/a	n/a	30
B/W-13 | SO4	mg/L	5	5	100	120	98	n/a	n/a	110
B/W-14 | SO4	mg/L	5	5	100	31	19	n/a	n/a	29
B/W-15 | SO4	mg/L	5	5	100	37	20	n/a	n/a	31
B/W-13 | TDS	mg/L	5	5	100	480	320	n/a	n/a	410
B/W-14 | TDS	mg/L	5	5	100	330	250	n/a	n/a	280
B/W-15 | TDS	mg/L	5	5	100	260	150	n/a	n/a	180

Table B-4-1. Summary Statistics for Background Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Metals									
B/W-13 | AL	ug/L	5	0	0	n/a	n/a	80	40	20
B/W-14 | AL	ug/L	5	4	80	70	48	80	80	52
B/W-15 | AL	ug/L	5	0	0	n/a	n/a	80	40	25
B/W-13 | AS	ug/L	8	8	100	18	6.1	n/a	n/a	9.5
B/W-14 | AS	ug/L	13	13	100	140	3	n/a	n/a	85
B/W-15 | AS	ug/L	8	6	75	41	5	7	1	7.0
B/W-13 | BA	ug/L	4	4	100	30	20	n/a	n/a	23
B/W-14 | BA	ug/L	4	4	100	22	19	n/a	n/a	20
B/W-15 | BA	ug/L	4	4	100	31	24	n/a	n/a	27
B/W-13 | BE	ug/L	5	0	0	n/a	n/a	0.5	0.075	0.038
B/W-14 | BE	ug/L	5	1	20	0.9	0.9	0.75	0.075	0.25
B/W-15 | BE	ug/L	5	0	0	n/a	n/a	0.75	0.075	0.038
B/W-13 | CD	ug/L	5	2	40	0.067	0.062	1	0.15	0.075
B/W-14 | CD	ug/L	4	1	25	0.69	0.69	0.5	0.025	0.13
B/W-15 | CD	ug/L	5	1	20	0.032	0.032	1	0.035	0.032
B/W-13 | CU	ug/L	5	1	20	0.64	0.64	2	0.44	0.64
B/W-14 | CU	ug/L	5	5	100	7.7	4.7	n/a	n/a	5.1
B/W-15 | CU	ug/L	5	1	20	1	1	4	1.1	1.0
B/W-13 | FE	ug/L	5	0	0	n/a	n/a	59	15	7.5
B/W-14 | FE	ug/L	5	3	60	150	110	160	73	110
B/W-15 | FE	ug/L	5	0	0	n/a	n/a	40	15	7.5
B/W-13 | LI	ug/L	5	3	60	42	19	60	50	25
B/W-14 | LI	ug/L	5	2	40	30	8.2	60	7	25
B/W-15 | LI	ug/L	5	3	60	47	26	60	50	30
B/W-13 | MN	ug/L	5	1	20	94	94	50	2.2	23
B/W-14 | MN	ug/L	5	5	100	310	220	n/a	n/a	280
B/W-15 | MN	ug/L	5	5	100	640	430	n/a	n/a	610
B/W-13 | MO	ug/L	5	5	100	86	44	n/a	n/a	51
B/W-14 | MO	ug/L	5	5	100	12	10	n/a	n/a	12
B/W-15 | MO	ug/L	5	5	100	8.7	6.7	n/a	n/a	7.0
B/W-13 | SE	ug/L	5	4	80	2.4	1.7	2	2	2.3
B/W-14 | SE	ug/L	4	1	25	0.46	0.46	3	0.3	0.31
B/W-15 | SE	ug/L	5	2	40	0.36	0.33	3	0.3	0.36
B/W-13 | ZN	ug/L	5	2	40	33	25	5.7	2.5	2.9
B/W-14 | ZN	ug/L	5	2	40	20	16	25	17	13
B/W-15 | ZN	ug/L	5	0	0	n/a	n/a	25	5.5	4.6

Table B-4-1. Summary Statistics for Background Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Radiochemicals									
B/W-13 | RA-226	Pci/L	4	1	25	0.2	0.2	0.259	0.2	0.11
B/W-14 | RA-226	Pci/L	3	1	33	0.6	0.6	0.2	0.2	0.10
B/W-15 | RA-226	Pci/L	4	1	25	0.6	0.6	0.2	0.195	0.10
B/W-13 | RA-228	Pci/L	5	2	40	1.9	1.4	1	0.503	0.50
B/W-14 | RA-228	Pci/L	4	0	0	n/a	n/a	1	0.536	0.42
B/W-15 | RA-228	Pci/L	5	1	20	1.3	1.3	1	0.554	0.50
B/W-13 | SR	ug/L	5	5	100	360	280	n/a	n/a	300
B/W-14 | SR	ug/L	5	5	100	50	39	n/a	n/a	45
B/W-15 | SR	ug/L	5	5	100	260	180	n/a	n/a	240
B/W-13 | TH-228	Pci/L	2	0	0	n/a	n/a	0.222	0.123	0.086
B/W-14 | TH-228	Pci/L	2	0	0	n/a	n/a	0.191	0.116	0.077
B/W-15 | TH-228	Pci/L	2	0	0	n/a	n/a	0.21	0.15	0.090
B/W-13 | TH-230	Pci/L	5	1	20	0.2	0.2	0.2	0.12	0.10
B/W-14 | TH-230	Pci/L	4	0	0	n/a	n/a	0.6	0.115	0.10
B/W-15 | TH-230	Pci/L	5	1	20	0.2	0.2	0.2	0.147	0.10
B/W-13 | TH-232	Pci/L	5	0	0	n/a	n/a	0.2	0.1	0.060
B/W-14 | TH-232	Pci/L	4	0	0	n/a	n/a	0.2	0.1	0.054
B/W-15 | TH-232	Pci/L	5	0	0	n/a	n/a	0.2	0.1	0.074
B/W-13 | U-CONC	ug/L	8	8	100	11.6	3.9	n/a	n/a	5.2
B/W-14 | U-CONC	ug/L	13	7	54	12.6	0.35	1.5	0.3	0.75
B/W-15 | U-CONC	ug/L	8	7	88	12.6	3.6	0.8	0.8	6.3

Table B-4-2. Summary Statistics for Process Area Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Water Quality Parameters and Major Ions									
PA-MW-1 | CA	mg/L	9	9	100	210	180	n/a	n/a	200
PA-MW-2 | CA	mg/L	9	9	100	100	64	n/a	n/a	74
PA-MW-3 | CA	mg/L	9	9	100	66	58	n/a	n/a	63
PA-MW-1 | CL	mg/L	8	8	100	110	81	n/a	n/a	90
PA-MW-2 | CL	mg/L	8	8	100	53	44	n/a	n/a	50
PA-MW-3 | CL	mg/L	8	8	100	45	35	n/a	n/a	38
PA-MW-1 | F	ug/L	8	8	100	780	500	n/a	n/a	590
PA-MW-2 | F	ug/L	8	7	88	2200	1700	2500	2500	1900
PA-MW-3 | F	ug/L	8	8	100	1300	1100	n/a	n/a	1150
PA-MW-1 | MG	mg/L	9	9	100	34	29	n/a	n/a	32
PA-MW-2 | MG	mg/L	9	9	100	49	39	n/a	n/a	43
PA-MW-3 | MG	mg/L	9	9	100	19	15	n/a	n/a	16
PA-MW-1 | NO3N	mg/L	1	0	0	n/a	n/a	0.08	0.08	0.040
PA-MW-2 | NO3N	mg/L	1	0	0	n/a	n/a	0.08	0.08	0.040
PA-MW-3 | NO3N	mg/L	1	0	0	n/a	n/a	0.08	0.08	0.040
PA-MW-1 | PH	SU	9	9	100	8.06	7.45	n/a	n/a	7.71
PA-MW-2 | PH	SU	9	9	100	7.92	7.16	n/a	n/a	7.30
PA-MW-3 | PH	SU	9	9	100	8.17	7.27	n/a	n/a	7.62
PA-MW-1 | K	mg/L	9	9	100	6	5.1	n/a	n/a	5.3
PA-MW-2 | K	mg/L	9	9	100	10	4.5	n/a	n/a	5.0
PA-MW-3 | K	mg/L	9	9	100	9.4	5.1	n/a	n/a	5.4
PA-MW-1 | NA	mg/L	9	9	100	210	150	n/a	n/a	190
PA-MW-2 | NA	mg/L	9	9	100	360	230	n/a	n/a	320
PA-MW-3 | NA	mg/L	9	9	100	390	260	n/a	n/a	330
PA-MW-1 | SO4	mg/L	9	9	100	780	640	n/a	n/a	680
PA-MW-2 | SO4	mg/L	9	9	100	540	460	n/a	n/a	500
PA-MW-3 | SO4	mg/L	9	9	100	350	250	n/a	n/a	300
PA-MW-1 | TDS	mg/L	9	9	100	1600	750	n/a	n/a	1400
PA-MW-2 | TDS	mg/L	9	9	100	1400	1200	n/a	n/a	1400
PA-MW-3 | TDS	mg/L	9	9	100	1300	1000	n/a	n/a	1200

Table B-4-2. Summary Statistics for Process Area Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Metals									
PA-MW-1 | AL	ug/L	9	0	0	n/a	n/a	100	21	40
PA-MW-2 | AL	ug/L	9	2	22	460	96	100	21	50
PA-MW-3 | AL	ug/L	9	1	11	230	230	100	21	40
PA-MW-1 | AS	ug/L	9	6	67	8.5	3.9	8	2	5.0
PA-MW-2 | AS	ug/L	9	9	100	55	10	n/a	n/a	30
PA-MW-3 | AS	ug/L	9	8	89	19	7.2	7	7	10
PA-MW-1 | BA	ug/L	3	3	100	32	30	n/a	n/a	32
PA-MW-2 | BA	ug/L	3	3	100	31	18	n/a	n/a	21
PA-MW-3 | BA	ug/L	3	3	100	20	15	n/a	n/a	19
PA-MW-1 | BE	ug/L	3	0	0	n/a	n/a	2	0.037	0.19
PA-MW-2 | BE	ug/L	3	0	0	n/a	n/a	4	0.037	0.038
PA-MW-3 | BE	ug/L	3	0	0	n/a	n/a	2	0.037	0.038
PA-MW-1 | CD	ug/L	3	0	0	n/a	n/a	2	0.018	0.060
PA-MW-2 | CD	ug/L	3	1	33	0.14	0.14	4	0.018	0.14
PA-MW-3 | CD	ug/L	3	1	33	0.14	0.14	2	0.018	0.14
PA-MW-1 | CU	ug/L	9	5	56	7.8	1	330	3.4	3.0
PA-MW-2 | CU	ug/L	9	6	67	27	1.2	330	8	7.0
PA-MW-3 | CU	ug/L	9	5	56	12	1.4	330	1.1	3.0
PA-MW-1 | FE	ug/L	9	0	0	n/a	n/a	100	4	20
PA-MW-2 | FE	ug/L	9	4	44	540	170	100	15	50
PA-MW-3 | FE	ug/L	9	2	22	200	100	100	15	25
PA-MW-1 | MN	ug/L	9	5	56	240	3	900	2	3.5
PA-MW-2 | MN	ug/L	9	7	78	1900	0.62	900	20	230
PA-MW-3 | MN	ug/L	9	6	67	350	51	900	0.5	68
PA-MW-1 | MO	ug/L	1	1	100	41	41	n/a	n/a	41
PA-MW-2 | MO	ug/L	1	1	100	98	98	n/a	n/a	98
PA-MW-3 | MO	ug/L	1	1	100	130	130	n/a	n/a	130
PA-MW-1 | SE	ug/L	1	1	100	9.4	9.4	n/a	n/a	9.4
PA-MW-2 | SE	ug/L	1	1	100	13	13	n/a	n/a	13
PA-MW-3 | SE	ug/L	1	1	100	7.7	7.7	n/a	n/a	7.7
PA-MW-1 | ZN	ug/L	3	3	100	20	4.8	n/a	n/a	6.0
PA-MW-2 | ZN	ug/L	3	2	67	9.1	7.5	40	40	9.1
PA-MW-3 | ZN	ug/L	3	2	67	10	3.3	1	1	3.3

Table B-4-2. Summary Statistics for Process Area Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Radiochemicals									
PA-MW-1 | RA-226	Pci/L	1	0	0	n/a	n/a	0.2	0.2	0.10
PA-MW-2 | RA-226	Pci/L	1	0	0	n/a	n/a	0.2	0.2	0.10
PA-MW-3 | RA-226	Pci/L	1	1	100	0.2	0.2	n/a	n/a	0.20
PA-MW-1 | RA-228	Pci/L	1	1	100	1.1	1.1	n/a	n/a	1.1
PA-MW-2 | RA-228	Pci/L	1	0	0	n/a	n/a	1	1	0.50
PA-MW-3 | RA-228	Pci/L	1	0	0	n/a	n/a	1	1	0.50
PA-MW-1 | SR	ug/L	2	2	100	1900	1900	n/a	n/a	1900
PA-MW-2 | SR	ug/L	2	2	100	1100	1000	n/a	n/a	1050
PA-MW-3 | SR	ug/L	2	2	100	900	840	n/a	n/a	870
PA-MW-1 | U-CONC	ug/L	5	5	100	74	41.6	n/a	n/a	64
PA-MW-2 | U-CONC	ug/L	5	5	100	77	27.4	n/a	n/a	66
PA-MW-3 | U-CONC	ug/L	5	5	100	120	68.1	n/a	n/a	120

Table B-4-3. Summary Statistics for Onsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Water Quality Parameters and Major Ions									
ON_SH | CA	mg/L	64	64	100	570	13	n/a	n/a	77
ON_D | CA	mg/L	13	13	100	620	76	n/a	n/a	87
ON_SH | CL	mg/L	64	64	100	150	27	n/a	n/a	54
ON_D | CL	mg/L	13	13	100	140	28	n/a	n/a	29
ON_SH | F	ug/L	64	61	95	270000	340	14000	500	1175
ON_D | F	ug/L	13	6	46	500	310	15000	500	420
ON_SH | MG	mg/L	64	64	100	1200	1.9	n/a	n/a	19
ON_D | MG	mg/L	13	13	100	1200	11	n/a	n/a	14
ON_SH | NO3N	mg/L	8	0	0	n/a	n/a	40	0.08	0.040
ON_D | NO3N	mg/L	6	0	0	n/a	n/a	1.6	0.06	0.12
ON_SH | PH	SU	64	64	100	8.31	3.72	n/a	n/a	7.47
ON_D | PH	SU	13	13	100	8.02	6.2	n/a	n/a	7.79
ON_SH | K	mg/L	64	54	84	62	1.3	50	2.3	4.2
ON_D | K	mg/L	13	12	92	17	1.1	1.4	1.4	1.4
ON_SH | NA	mg/L	64	64	100	400	56	n/a	n/a	175
ON_D | NA	mg/L	13	13	100	860	66	n/a	n/a	75
ON_SH | SO4	mg/L	64	62	97	25000	94	250	250	455
ON_D | SO4	mg/L	13	12	92	13000	190	250	250	230
ON_SH | TDS	mg/L	64	64	100	40000	400	n/a	n/a	1100
ON_D | TDS	mg/L	13	13	100	8800	530	n/a	n/a	620

Table B-4-3. Summary Statistics for Onsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Metals									
ON_SH | AL	ug/L	64	19	30	1300000	55	500	40	40
ON_D | AL	ug/L	13	1	8	80	80	200	40	40
ON_SH | AS	ug/L	64	53	83	300	2.7	200	2	18
ON_D | AS	ug/L	19	19	100	65	4.8	n/a	n/a	7.8
ON_SH | BA	ug/L	16	14	88	28	12	40	15	17
ON_D | BA	ug/L	6	6	100	45	29	n/a	n/a	33
ON_SH | BE	ug/L	16	4	25	250	29	4	0.075	1.0
ON_D | BE	ug/L	7	2	29	0.77	0.098	2.5	0.075	0.098
ON_SH | CD	ug/L	16	7	44	130	0.028	4	0.057	1.0
ON_D | CD	ug/L	7	3	43	0.48	0.12	5	0.088	0.21
ON_SH | CU	ug/L	64	44	69	110000	1	800	1.1	13
ON_D | CU	ug/L	13	6	46	25	1.1	14	1.4	2.1
ON_SH | FE	ug/L	64	41	64	6500000	24	7000	15	685
ON_D | FE	ug/L	13	7	54	26000	70	50	15	70
ON_D | LI	ug/L	5	5	100	400	230	n/a	n/a	340
ON_SH | MN	ug/L	64	43	67	150000	0.89	170	0.5	31
ON_D | MN	ug/L	13	11	85	28000	62	190	170	120
ON_D | MO	ug/L	5	5	100	200	29	n/a	n/a	66
ON_D | SE	ug/L	5	4	80	10	5.9	10	10	6.4
ON_SH | ZN	ug/L	16	13	81	14000	1.1	40	1	20
ON_D | ZN	ug/L	7	5	71	80	5.4	100	19	10

Table B-4-3. Summary Statistics for Onsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Radiochemicals									
ON_D | RA-226	Pci/L	4	2	50	0.6	0.339	0.2	0.2	0.22
ON_D | RA-228	Pci/L	5	1	20	0.768	0.768	1.23	1	0.50
ON_SH | SR	ug/L	16	16	100	9700	290	n/a	n/a	950
ON_D | SR	ug/L	7	7	100	9000	810	n/a	n/a	7700
ON_D | TH-228	Pci/L	2	0	0	n/a	n/a	0.242	0.198	0.11
ON_D | TH-230	Pci/L	5	1	20	0.2	0.2	0.292	0.157	0.10
ON_D | TH-232	Pci/L	5	0	0	n/a	n/a	0.238	0.1	0.050
ON_SH | U-CONC	ug/L	32	30	94	5200	14	40	31	68
ON_D | U-CONC	ug/L	15	15	100	1200	53	n/a	n/a	194

Table B-4-4. Summary Statistics for Offsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Water Quality Parameters and Major Ions									
N_SH | CA	mg/L	103	103	100	660	370	n/a	n/a	470
NW_SH | CA	mg/L	31	31	100	510	41	n/a	n/a	430
N_IN | CA	mg/L	16	16	100	460	49	n/a	n/a	234
NW_IN | CA	mg/L	14	14	100	64	17	n/a	n/a	20
N_DP | CA	mg/L	44	44	100	200	12	n/a	n/a	22
NW_DP | CA	mg/L	4	4	100	36	33	n/a	n/a	34
N_DOM | CA	mg/L	52	52	100	180	24	n/a	n/a	98
NW_DOM | CA	mg/L	40	40	100	170	14	n/a	n/a	54
N_SH | CL	mg/L	103	103	100	700	45	n/a	n/a	240
NW_SH | CL	mg/L	31	31	100	990	240	n/a	n/a	580
N_IN | CL	mg/L	16	16	100	470	29	n/a	n/a	154
NW_IN | CL	mg/L	14	14	100	98	23	n/a	n/a	29
N_DP | CL	mg/L	44	44	100	63	3.9	n/a	n/a	7.4
NW_DP | CL	mg/L	4	4	100	86	74	n/a	n/a	83
N_DOM | CL	mg/L	52	52	100	230	10	n/a	n/a	72
NW_DOM | CL	mg/L	40	40	100	190	29	n/a	n/a	96
N_SH | F	ug/L	103	74	72	73000	200	25000	n/a	2800
NW_SH | F	ug/L	31	18	58	9500	220	10000	n/a	1500
N_IN | F	ug/L	16	13	81	9100	100	1000	n/a	285
NW_IN | F	ug/L	14	14	100	2000	950	n/a	n/a	1300
N_DP | F	ug/L	44	37	84	1000	300	14000	n/a	545
NW_DP | F	ug/L	4	4	100	1800	1700	n/a	n/a	1700
N_DOM | F	ug/L	52	40	77	380	120	520	n/a	245
NW_DOM | F	ug/L	40	37	93	2000	150	1100	n/a	1450
N_SH | MG	mg/L	103	103	100	540	38	n/a	n/a	330
NW_SH | MG	mg/L	31	31	100	420	24	n/a	n/a	140
N_IN | MG	mg/L	16	16	100	440	8.1	n/a	n/a	23
NW_IN | MG	mg/L	14	14	100	11	1.8	n/a	n/a	2.6
N_DP | MG	mg/L	44	44	100	38	1.9	n/a	n/a	4.7
NW_DP | MG	mg/L	4	4	100	5.6	5.2	n/a	n/a	5.3
N_DOM | MG	mg/L	52	52	100	23	4.9	n/a	n/a	18
NW_DOM | MG	mg/L	40	40	100	34	3	n/a	n/a	11
N_SH | NO3N	mg/L	13	1	8	1.2	1.2	1.6	n/a	0.20
NW_SH | NO3N	mg/L	3	0	0	n/a	n/a	0.8	n/a	0.40
N_IN | NO3N	mg/L	2	0	0	n/a	n/a	1.6	n/a	0.42
NW_IN | NO3N	mg/L	14	3	21	4.8	0.25	0.8	n/a	0.040
N_DP | NO3N	mg/L	30	8	27	11	0.14	0.15	n/a	0.040
NW_DP | NO3N	mg/L	4	1	25	4.3	4.3	0.15	n/a	0.058
N_DOM | NO3N	mg/L	41	29	71	14	0.15	0.08	n/a	0.73
NW_DOM | NO3N	mg/L	24	17	71	5.5	0.8	0.08	n/a	2.3
N_SH | PH	SU	103	103	100	7.91	3.92	n/a	n/a	6.28
NW_SH | PH	SU	31	31	100	8.05	6.36	n/a	n/a	7.07
N_IN | PH	SU	16	16	100	8.18	6.26	n/a	n/a	7.805
NW_IN | PH	SU	14	14	100	8.18	7.5	n/a	n/a	8.01
N_DP | PH	SU	44	44	100	8.26	7.32	n/a	n/a	7.89
NW_DP | PH	SU	4	4	100	8.04	7.83	n/a	n/a	7.91
N_DOM | PH	SU	52	52	100	8.19	5.59	n/a	n/a	7.98
NW_DOM | PH	SU	41	41	100	8.35	7.49	n/a	n/a	8.08
N_SH | K	mg/L	103	87	84	31	1.3	26	n/a	13
NW_SH | K	mg/L	31	19	61	11	0.85	10	n/a	5.0

Table B-4-4. Summary Statistics for Offsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
N_IN | K	mg/L	16	15	94	6.9	1.3	1.1	n/a	4.5
NW_IN | K	mg/L	14	14	100	2.5	1.3	n/a	n/a	2.0
N_DP | K	mg/L	44	43	98	6.3	0.51	1.5	n/a	2.7
NW_DP | K	mg/L	4	4	100	4.5	2.5	n/a	n/a	2.6
N_DOM | K	mg/L	52	52	100	6.8	1.8	n/a	n/a	2.9
NW_DOM | K	mg/L	40	40	100	6	1.6	n/a	n/a	3.4
N_SH | NA	mg/L	103	103	100	3100	110	n/a	n/a	700
NW_SH | NA	mg/L	31	31	100	4800	660	n/a	n/a	2700
N_IN | NA	mg/L	16	16	100	1100	31	n/a	n/a	64
NW_IN | NA	mg/L	14	14	100	210	93	n/a	n/a	110
N_DP | NA	mg/L	44	44	100	370	22	n/a	n/a	31
NW_DP | NA	mg/L	4	4	100	190	180	n/a	n/a	185
N_DOM | NA	mg/L	52	52	100	170	24	n/a	n/a	51
NW_DOM | NA	mg/L	39	39	100	260	64	n/a	n/a	170
N_SH | SO4	mg/L	103	103	100	8300	670	n/a	n/a	3800
NW_SH | SO4	mg/L	31	31	100	11000	910	n/a	n/a	5400
N_IN | SO4	mg/L	16	15	94	3900	86	250	n/a	383
NW_IN | SO4	mg/L	14	14	100	350	72	n/a	n/a	100
N_DP | SO4	mg/L	44	43	98	640	13	250	n/a	29
NW_DP | SO4	mg/L	4	4	100	230	210	n/a	n/a	220
N_DOM | SO4	mg/L	33	33	100	430	32	n/a	n/a	210
NW_DOM | SO4	mg/L	28	28	100	410	98	n/a	n/a	270
N_SH | TDS	mg/L	103	102	99	13000	680	7500	n/a	5700
NW_SH | TDS	mg/L	31	31	100	19000	2000	n/a	n/a	10000
N_IN | TDS	mg/L	16	15	94	8100	320	280	n/a	1130
NW_IN | TDS	mg/L	14	14	100	7500	300	n/a	n/a	390
N_DP | TDS	mg/L	44	42	95	1800	100	280	n/a	180
NW_DP | TDS	mg/L	4	3	75	700	590	10	n/a	645
N_DOM | TDS	mg/L	52	52	100	1100	160	n/a	n/a	605
NW_DOM | TDS	mg/L	40	40	100	1200	380	n/a	n/a	820

Table B-4-4. Summary Statistics for Offsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Metals									
N_SH | AL	ug/L	103	49	48	150000	72	1000	n/a	500
NW_SH | AL	ug/L	31	6	19	2500	100	1000	n/a	200
N_IN | AL	ug/L	16	1	6	50	50	200	n/a	25
NW_IN | AL	ug/L	14	1	7	120	120	80	n/a	20
N_DP | AL	ug/L	44	0	0	n/a	n/a	100	n/a	20
NW_DP | AL	ug/L	4	0	0	n/a	n/a	50	n/a	20
N_DOM | AL	ug/L	43	1	2	500	500	50	n/a	25
NW_DOM | AL	ug/L	34	5	15	550	80	400	n/a	25
N_SH | AS	ug/L	103	39	38	71	1.1	80	n/a	8.0
NW_SH | AS	ug/L	31	20	65	100	8	80	n/a	30
N_IN | AS	ug/L	16	12	75	29	3.3	8	n/a	7.5
NW_IN | AS	ug/L	19	19	100	31	2.4	n/a	n/a	10
N_DP | AS	ug/L	71	71	100	50	4	n/a	n/a	12
NW_DP | AS	ug/L	6	6	100	25	11	n/a	n/a	14
N_DOM | AS	ug/L	95	93	98	13	1	2	n/a	8.0
NW_DOM | AS	ug/L	66	66	100	39	6	n/a	n/a	28
N_SH | BA	ug/L	26	24	92	50	10	20	n/a	15
NW_SH | BA	ug/L	7	5	71	24	13	20	n/a	17
N_IN | BA	ug/L	4	4	100	57	7.7	n/a	n/a	49
NW_IN | BA	ug/L	11	9	82	56	1.7	1.8	n/a	19
N_DP | BA	ug/L	26	26	100	98	10	n/a	n/a	32
NW_DP | BA	ug/L	3	3	100	40	29	n/a	n/a	34
N_DOM | BA	ug/L	52	52	100	130	19	n/a	n/a	53
NW_DOM | BA	ug/L	40	40	100	120	18	n/a	n/a	45
N_SH | BE	ug/L	26	12	46	54	3.8	20	n/a	5.0
NW_SH | BE	ug/L	7	1	14	1.5	1.5	20	n/a	2.0
N_IN | BE	ug/L	4	0	0	n/a	n/a	2	n/a	0.88
NW_IN | BE	ug/L	14	1	7	12	12	0.5	n/a	0.038
N_DP | BE	ug/L	32	0	0	n/a	n/a	2	n/a	0.038
NW_DP | BE	ug/L	4	0	0	n/a	n/a	0.5	n/a	0.038
N_DOM | BE	ug/L	43	0	0	n/a	n/a	2	n/a	0.50
NW_DOM | BE	ug/L	34	0	0	n/a	n/a	5	n/a	0.50
N_SH | CD	ug/L	26	15	58	37	0.38	20	n/a	5.0
NW_SH | CD	ug/L	7	3	43	8.6	1	20	n/a	5.0
N_IN | CD	ug/L	4	0	0	n/a	n/a	2	n/a	0.63
NW_IN | CD	ug/L	14	8	57	11	0.11	1	n/a	0.23
N_DP | CD	ug/L	32	2	6	0.078	0.076	2	n/a	0.025
NW_DP | CD	ug/L	4	2	50	0.21	0.21	1	n/a	0.21
N_DOM | CD	ug/L	43	3	7	0.036	0.028	2	n/a	0.50
NW_DOM | CD	ug/L	34	5	15	0.16	0.028	5	n/a	0.50
N_SH | CU	ug/L	103	84	82	8400	4.6	800	n/a	70
NW_SH | CU	ug/L	31	26	84	250	4	800	n/a	39
N_IN | CU	ug/L	16	6	38	15	1.3	330	n/a	2.5
NW_IN | CU	ug/L	14	5	36	5.7	0.41	13	n/a	0.85
N_DP | CU	ug/L	44	22	50	12	0.25	800	n/a	1.0
NW_DP | CU	ug/L	4	1	25	1.5	1.5	2	n/a	0.88
N_DOM | CU	ug/L	50	38	76	23	0.85	2	n/a	2.0
NW_DOM | CU	ug/L	38	31	82	62	1	20	n/a	3.0
N_SH | FE	ug/L	103	62	60	1500000	82	43000	n/a	56000
NW_SH | FE	ug/L	31	15	48	47000	60	1000	n/a	250

Table B-4-4. Summary Statistics for Offsite Well Datasets Used in Boxplots

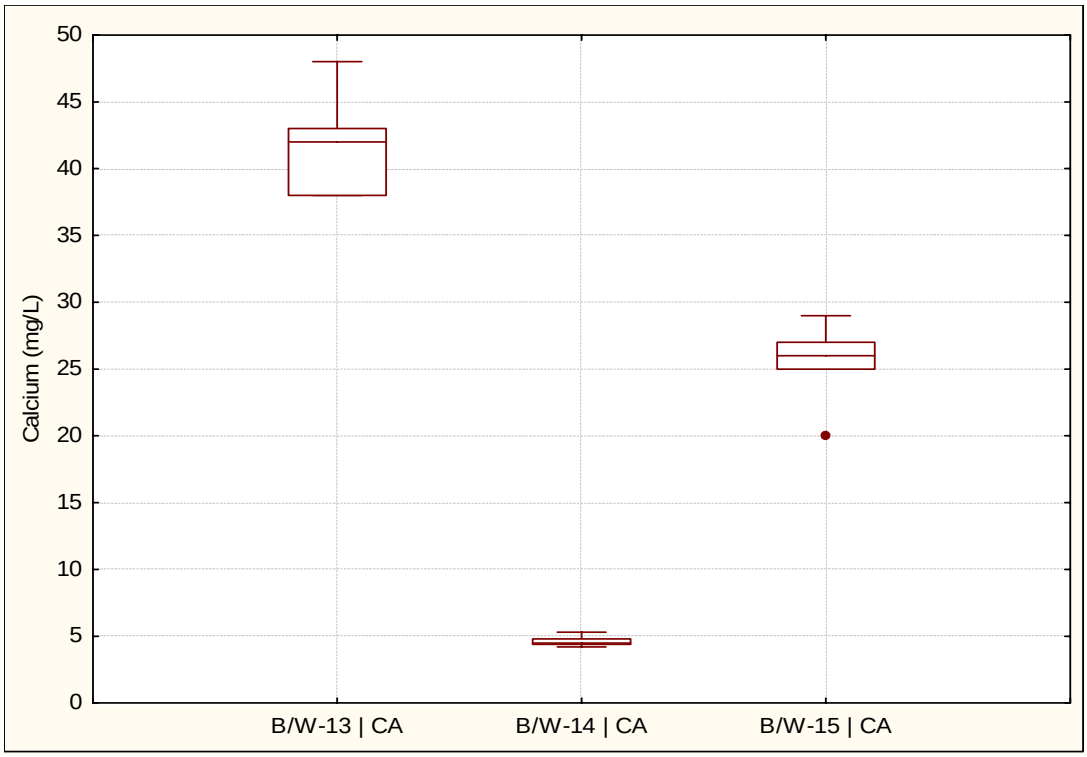
Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
N_IN | FE	ug/L	16	2	13	700	120	1000	n/a	25
NW_IN | FE	ug/L	14	3	21	180	66	170	n/a	18
N_DP | FE	ug/L	44	11	25	200	15	100	n/a	20
NW_DP | FE	ug/L	4	0	0	n/a	n/a	44	n/a	14
N_DOM | FE	ug/L	44	20	45	230	18	50	n/a	25
NW_DOM | FE	ug/L	36	18	50	700	15	250	n/a	55
NW_IN | LI	ug/L	14	8	57	52	25	60	n/a	30
N_DP | LI	ug/L	29	20	69	48	8.9	50	n/a	17
NW_DP | LI	ug/L	4	4	100	60	58	n/a	n/a	60
N_DOM | LI	ug/L	21	0	0	n/a	n/a	100	n/a	50
NW_DOM | LI	ug/L	21	3	14	900	700	200	n/a	50
N_SH | MN	ug/L	103	102	99	100000	6.2	68	n/a	35000
NW_SH | MN	ug/L	31	26	84	100000	3.5	170	n/a	12000
N_IN | MN	ug/L	16	11	69	8200	6	900	n/a	7.65
NW_IN | MN	ug/L	14	8	57	400	2.7	50	n/a	41
N_DP | MN	ug/L	44	33	75	400	1.6	170	n/a	25
NW_DP | MN	ug/L	4	3	75	190	27	2.6	n/a	42
N_DOM | MN	ug/L	44	19	43	17	0.75	2.2	n/a	1.0
NW_DOM | MN	ug/L	34	13	38	6	2	5	n/a	1.0
NW_IN | MO	ug/L	14	14	100	260	49	n/a	n/a	120
N_DP | MO	ug/L	29	29	100	36	7.3	n/a	n/a	10
NW_DP | MO	ug/L	4	4	100	130	100	n/a	n/a	110
N_DOM | MO	ug/L	29	25	86	13	3	2	n/a	7.0
NW_DOM | MO	ug/L	27	25	93	110	2	2	n/a	60
NW_IN | SE	ug/L	14	11	79	11	0.34	2	n/a	2.2
N_DP | SE	ug/L	29	4	14	1.8	0.63	2	n/a	0.15
NW_DP | SE	ug/L	4	4	100	5.4	4.2	n/a	n/a	5.0
N_DOM | SE	ug/L	21	7	33	10	4	10	n/a	5.0
NW_DOM | SE	ug/L	21	11	52	8	2	25	n/a	5.0
N_SH | ZN	ug/L	26	19	73	3900	6.2	50	n/a	175
NW_SH | ZN	ug/L	7	4	57	210	20	100	n/a	50
N_IN | ZN	ug/L	4	4	100	52	2.8	n/a	n/a	15
NW_IN | ZN	ug/L	14	4	29	240	58	20	n/a	6.2
N_DP | ZN	ug/L	32	20	63	150	2.1	31	n/a	15
NW_DP | ZN	ug/L	4	1	25	160	160	20	n/a	6.2
N_DOM | ZN	ug/L	52	45	87	140	5.4	20	n/a	30
NW_DOM | ZN	ug/L	40	33	83	1400	5.9	25	n/a	30

Table B-4-4. Summary Statistics for Offsite Well Datasets Used in Boxplots

Dataset	Units	Number of observations	Number of detects	Percent detects	Maximum detect	Minimum detect	Maximum nondetect	Minimum nondetect	Median
Radiochemicals									
NW_IN | RA-226	Pci/L	12	3	25	0.5	0.2	0.2	n/a	0.10
N_DP | RA-226	Pci/L	24	3	13	0.6	0.182	0.313	n/a	0.10
NW_DP | RA-226	Pci/L	4	1	25	0.176	0.176	0.2	n/a	0.10
N_DOM | RA-226	Pci/L	15	5	33	0.929	0.483	0.634	n/a	0.12
NW_DOM | RA-226	Pci/L	12	6	50	0.753	0.303	0.15	n/a	0.26
NW_IN | RA-228	Pci/L	14	0	0	n/a	n/a	1	n/a	0.50
N_DP | RA-228	Pci/L	29	3	10	1.5	0.737	1	n/a	0.50
NW_DP | RA-228	Pci/L	4	1	25	1.3	1.3	1	n/a	0.50
N_DOM | RA-228	Pci/L	15	5	33	2.59	1.86	1.57	n/a	0.15
NW_DOM | RA-228	Pci/L	11	4	36	2.83	2.31	1.56	n/a	0.38
N_SH | SR	ug/L	26	26	100	7900	2500	n/a	n/a	3700
NW_SH | SR	ug/L	7	7	100	10000	860	n/a	n/a	5400
N_IN | SR	ug/L	4	4	100	6700	480	n/a	n/a	1655
NW_IN | SR	ug/L	14	14	100	730	270	n/a	n/a	620
N_DP | SR	ug/L	32	32	100	1600	150	n/a	n/a	225
NW_DP | SR	ug/L	4	4	100	480	450	n/a	n/a	465
N_DOM | SR	ug/L	52	52	100	1500	250	n/a	n/a	1050
NW_DOM | SR	ug/L	39	35	90	1500	25	50	n/a	600
NW_IN | TH-228	Pci/L	5	0	0	n/a	n/a	0.188	n/a	0.086
N_DP | TH-228	Pci/L	11	0	0	n/a	n/a	0.309	n/a	0.092
NW_DP | TH-228	Pci/L	1	0	0	n/a	n/a	0.136	n/a	0.068
NW_IN | TH-230	Pci/L	14	2	14	0.2	0.2	0.2	n/a	0.10
N_DP | TH-230	Pci/L	29	5	17	0.4	0.2	0.6	n/a	0.10
NW_DP | TH-230	Pci/L	4	1	25	0.3	0.3	0.2	n/a	0.10
NW_IN | TH-232	Pci/L	14	0	0	n/a	n/a	0.2	n/a	0.053
N_DP | TH-232	Pci/L	29	0	0	n/a	n/a	0.2	n/a	0.056
NW_DP | TH-232	Pci/L	4	0	0	n/a	n/a	0.2	n/a	0.050
N_SH | U-CONC	ug/L	51	51	100	320	19	n/a	n/a	160
NW_SH | U-CONC	ug/L	15	15	100	780	170	n/a	n/a	580
N_IN | U-CONC	ug/L	8	7	88	1100	9.1	12	n/a	78
NW_IN | U-CONC	ug/L	19	19	100	45	8.4	n/a	n/a	22
N_DP | U-CONC	ug/L	63	61	97	173	1.3	12	n/a	6.1
NW_DP | U-CONC	ug/L	6	6	100	56.6	39	n/a	n/a	40
N_DOM | U-CONC	ug/L	11	11	100	49	3.8	n/a	n/a	20
NW_DOM | U-CONC	ug/L	6	6	100	89	17	n/a	n/a	21

Figure B-4-1. Boxplots for Background Wells

Water Quality Parameters and Major Ions



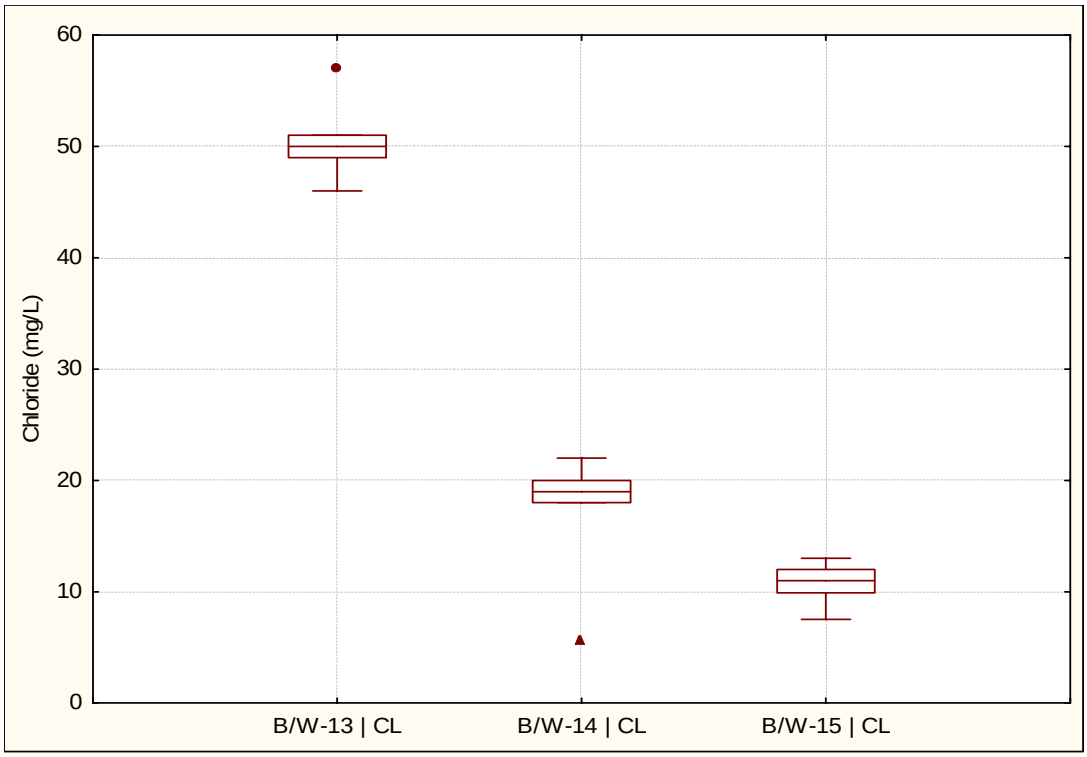
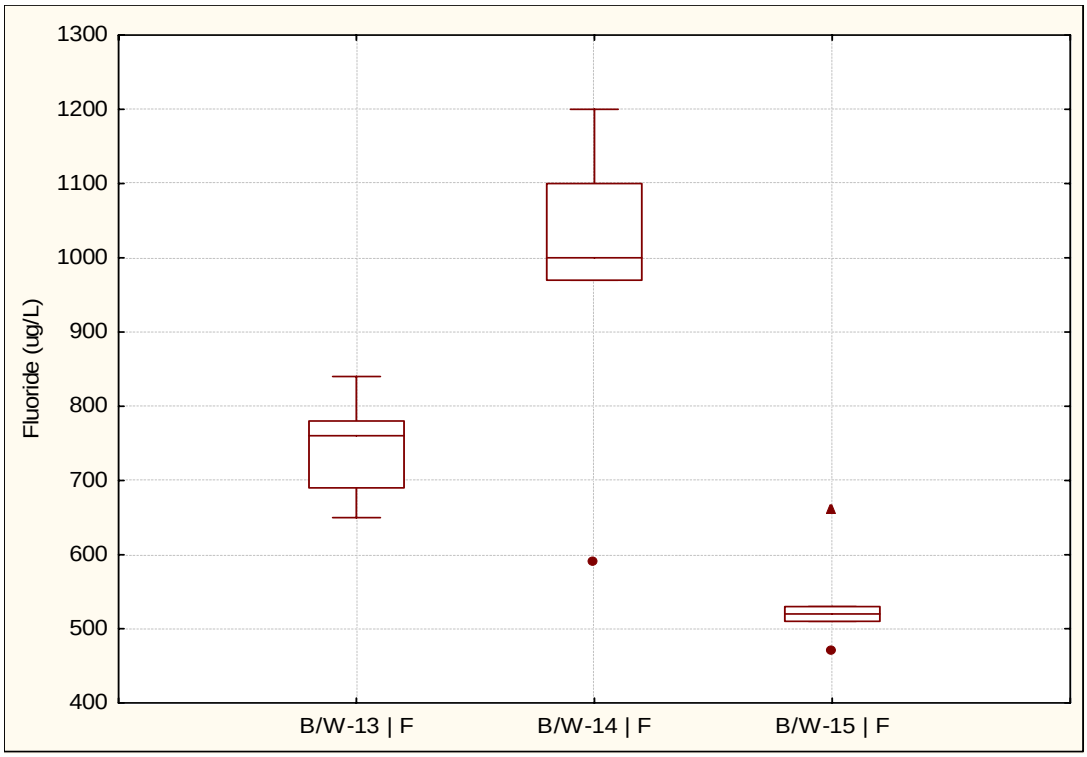


Figure B-4-1. Boxplots for Background Wells

Water Quality Parameters and Major Ions



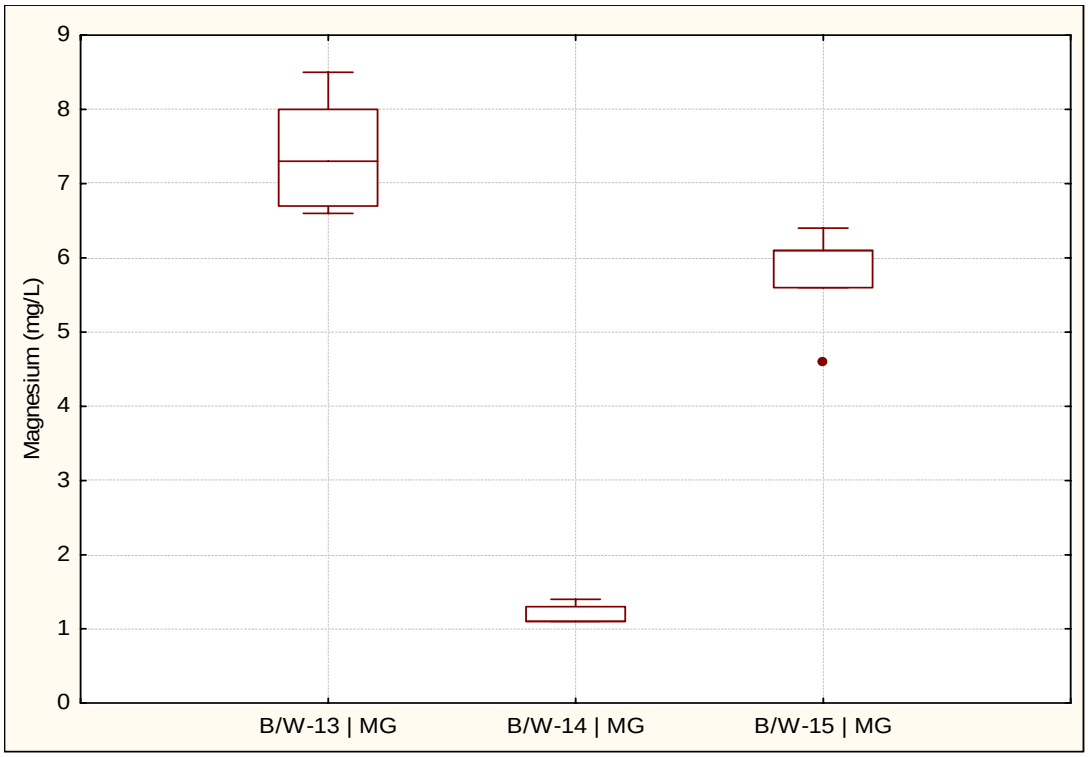
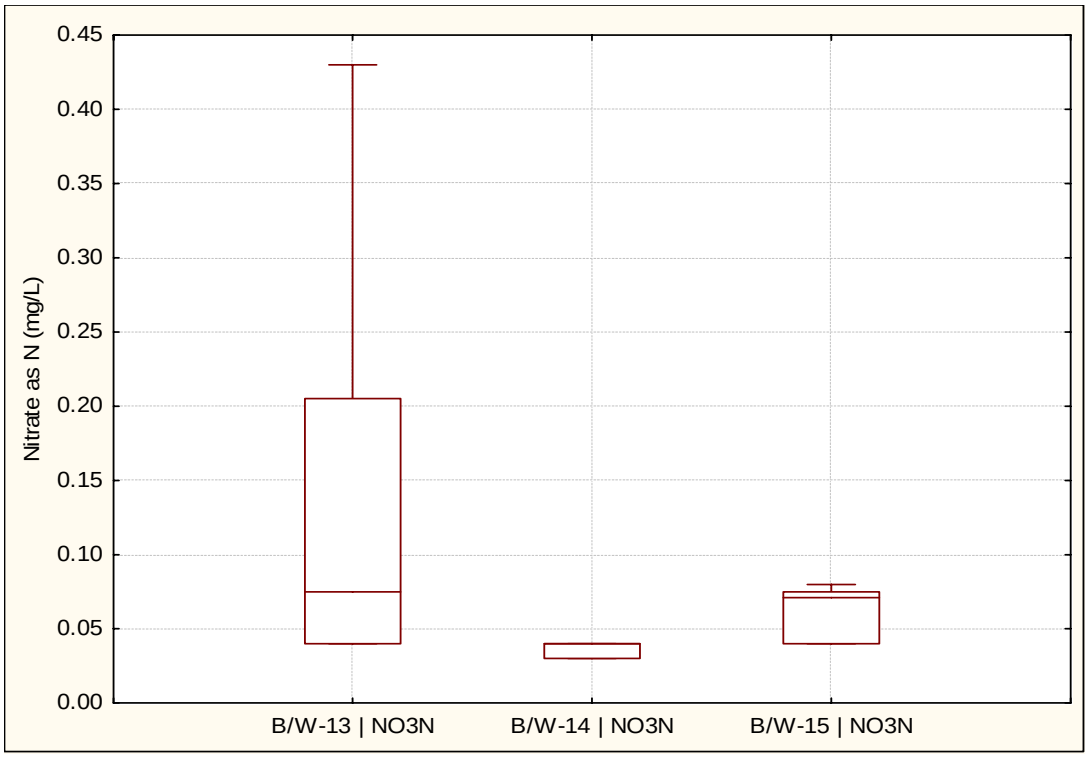


Figure B-4-1. Boxplots for Background Wells

Water Quality Parameters and Major Ions



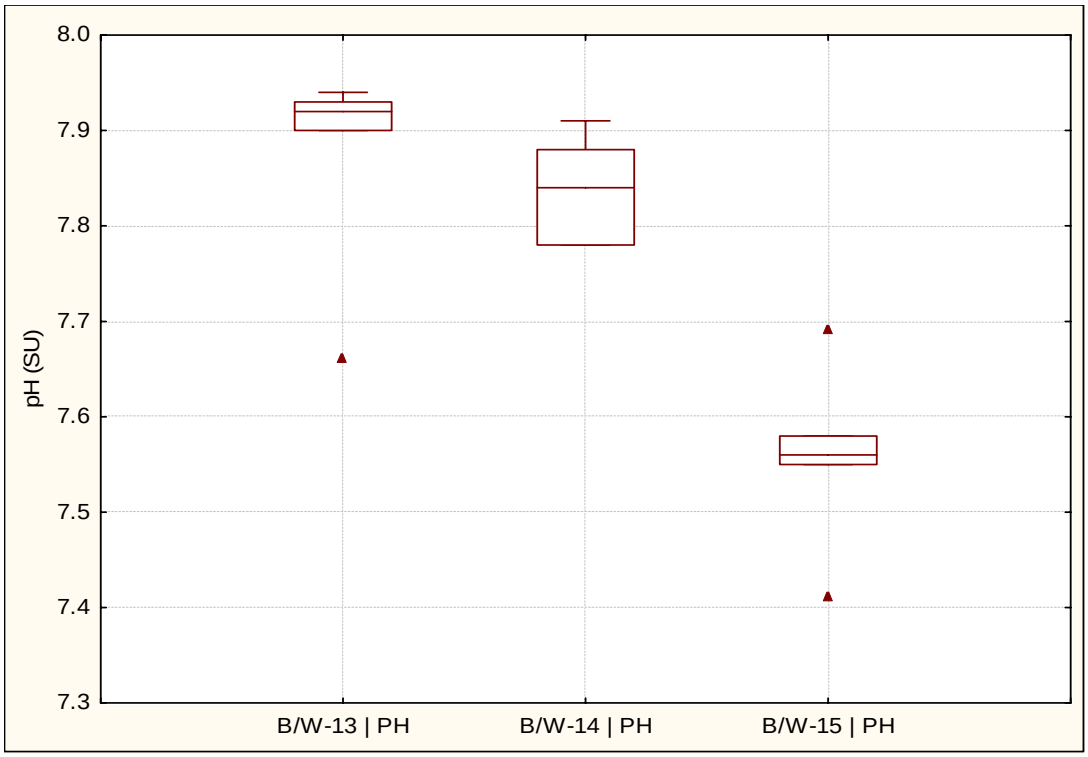
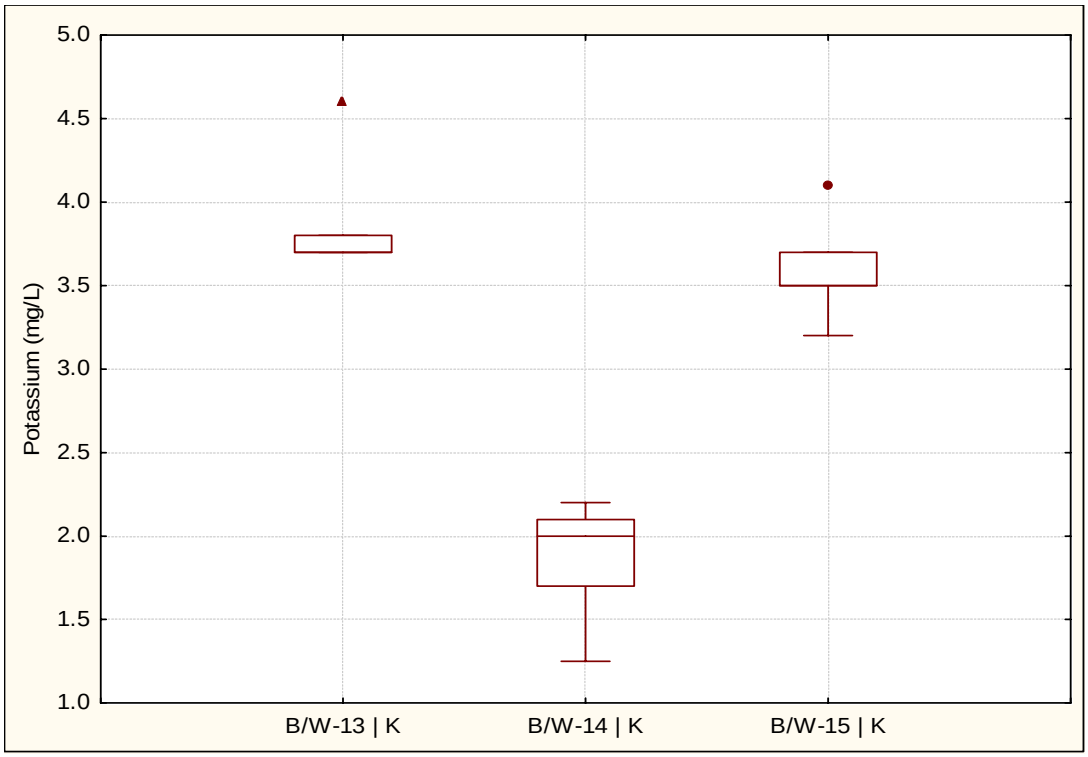


Figure B-4-1. Boxplots for Background Wells

Water Quality Parameters and Major Ions



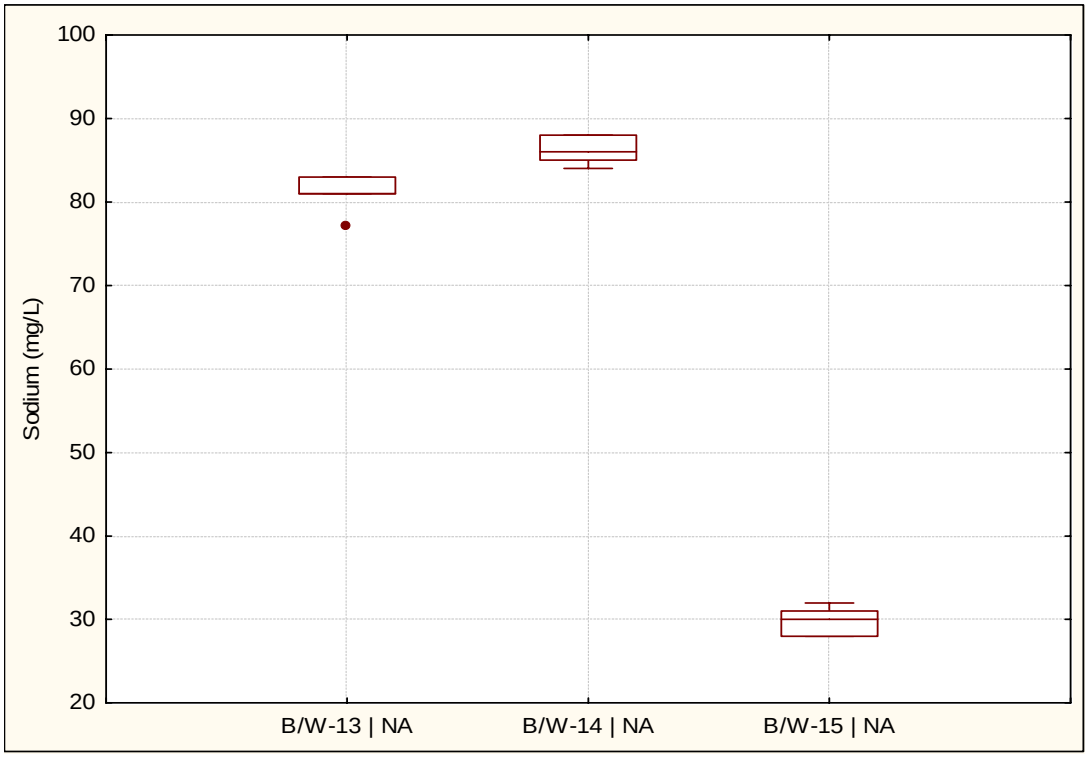
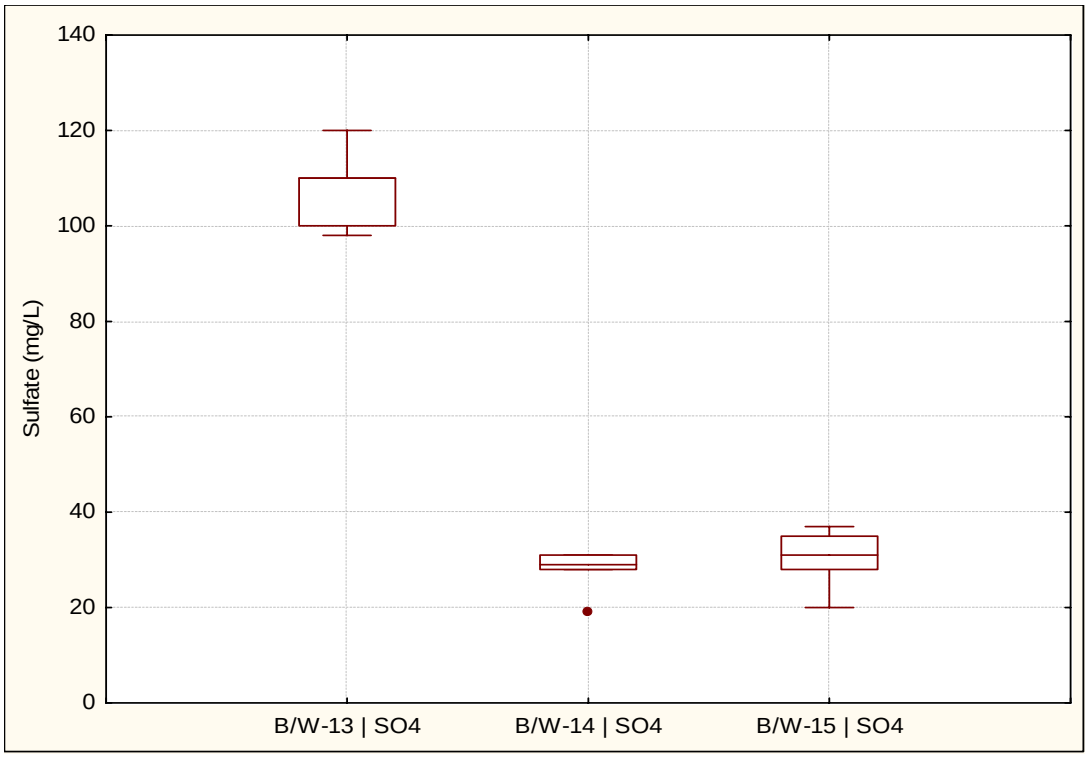


Figure B-4-1. Boxplots for Background Wells

Water Quality Parameters and Major Ions



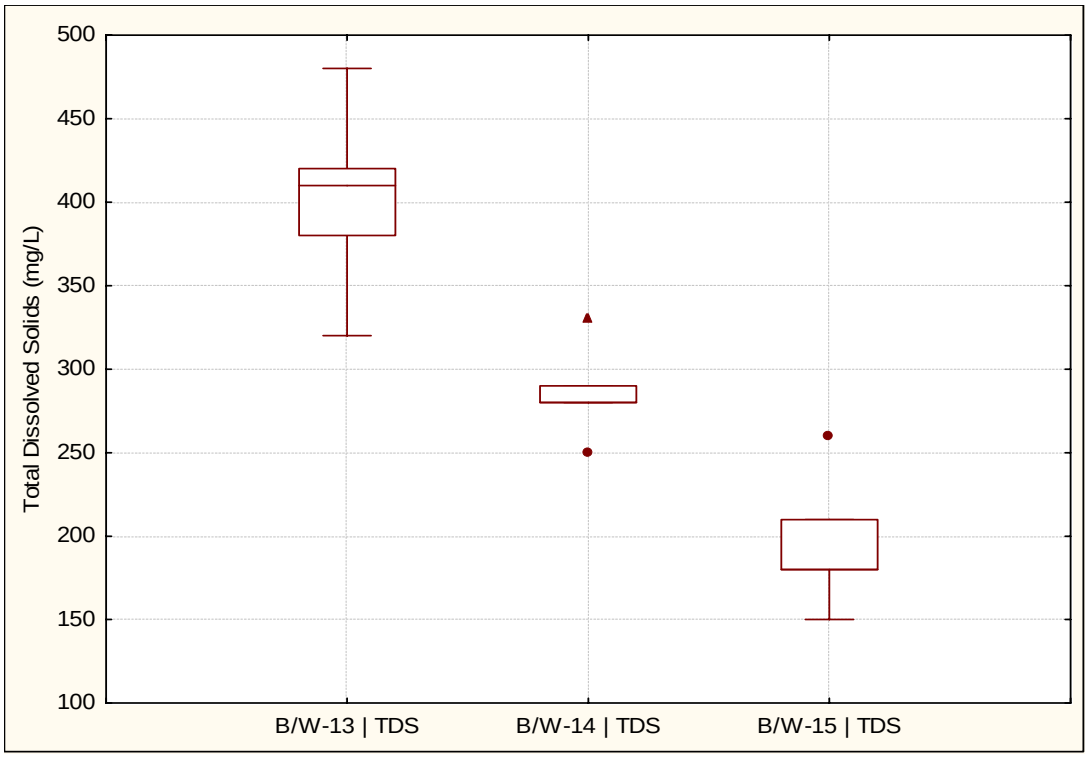
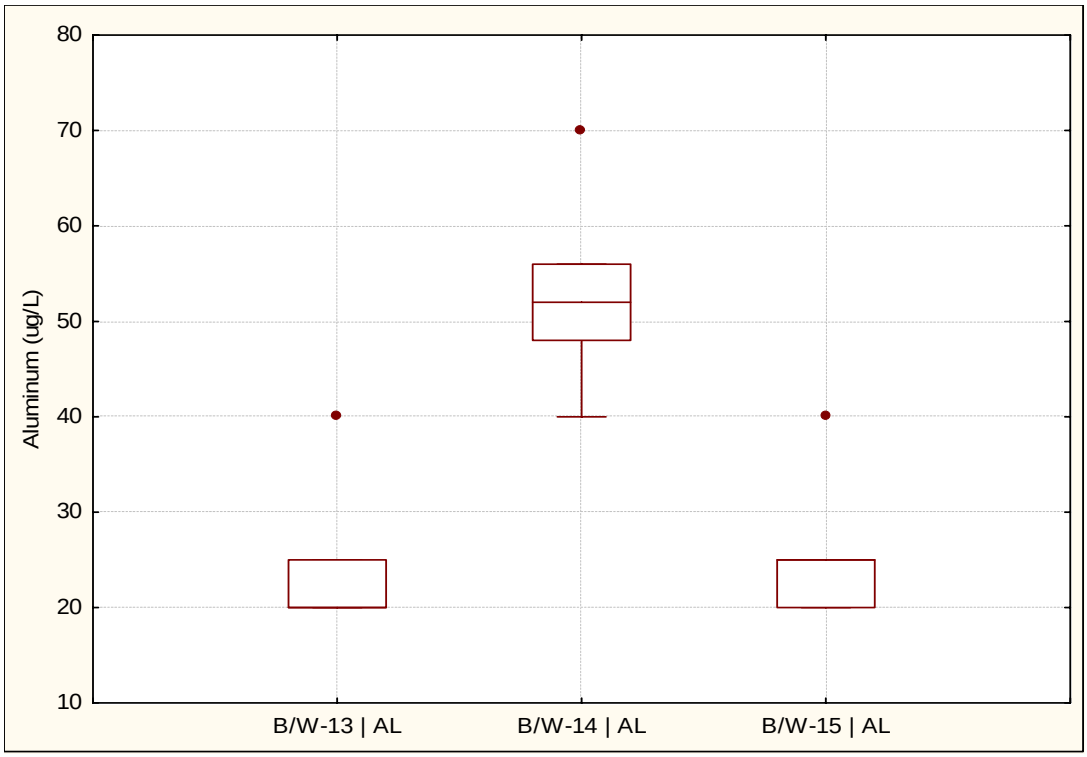


Figure B-4-1. Boxplots for Background Wells

Metals



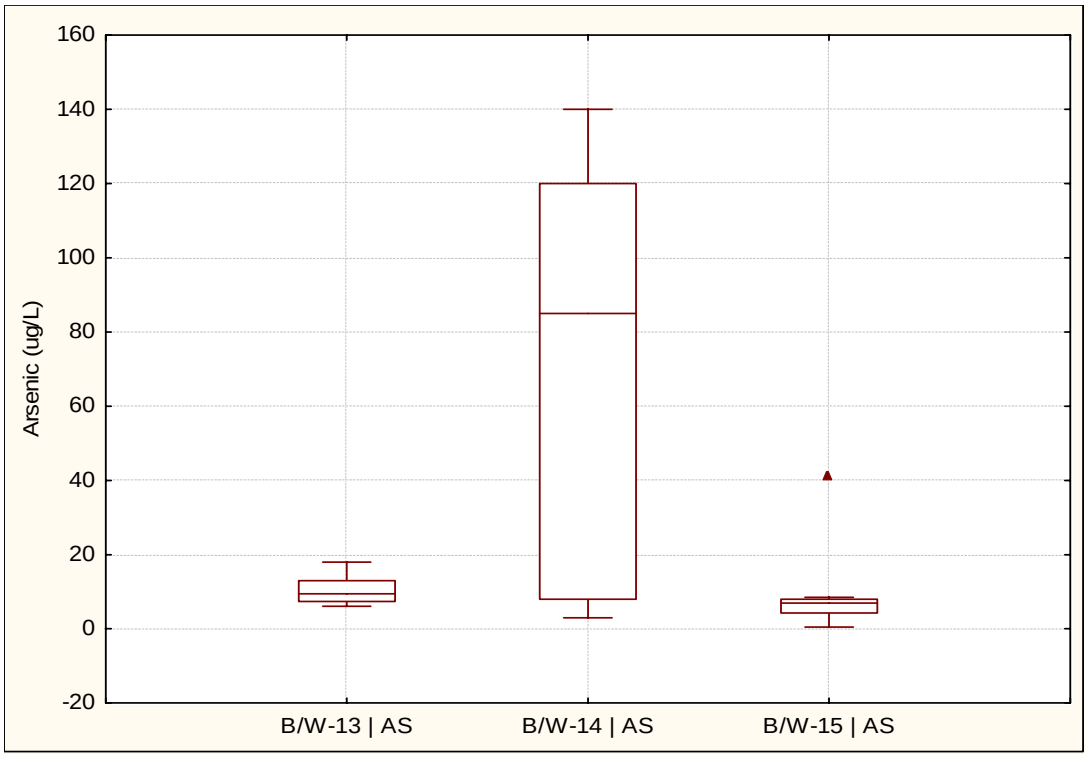
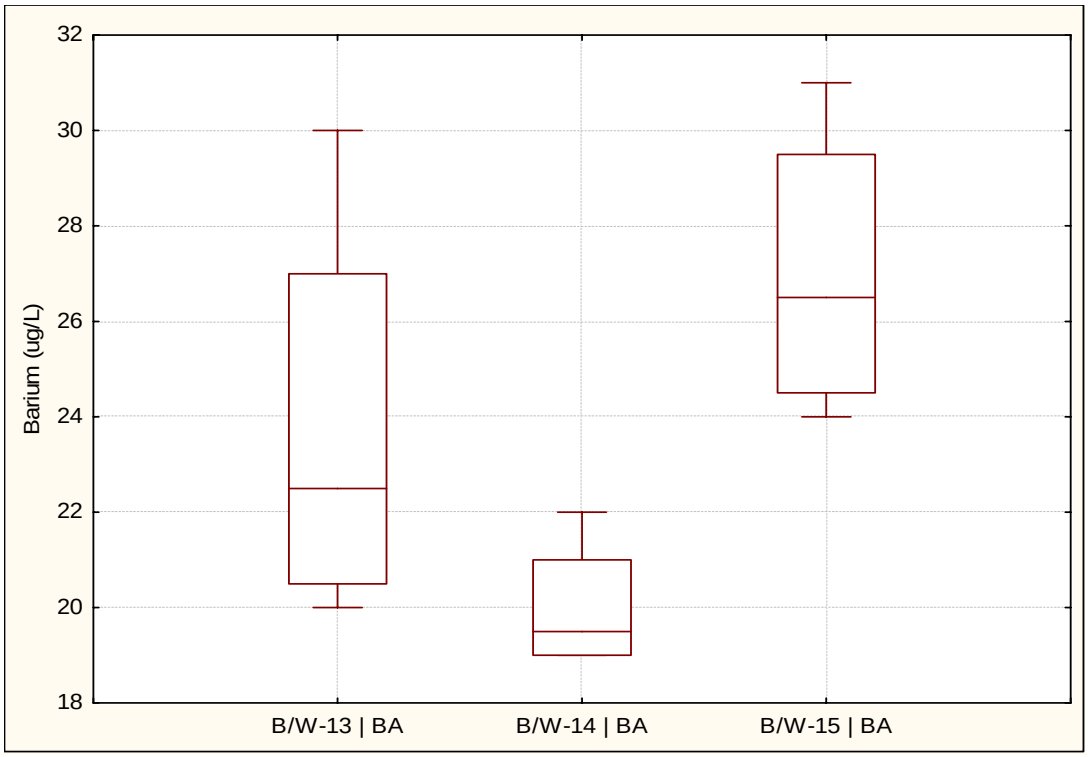


Figure B-4-1. Boxplots for Background Wells

Metals



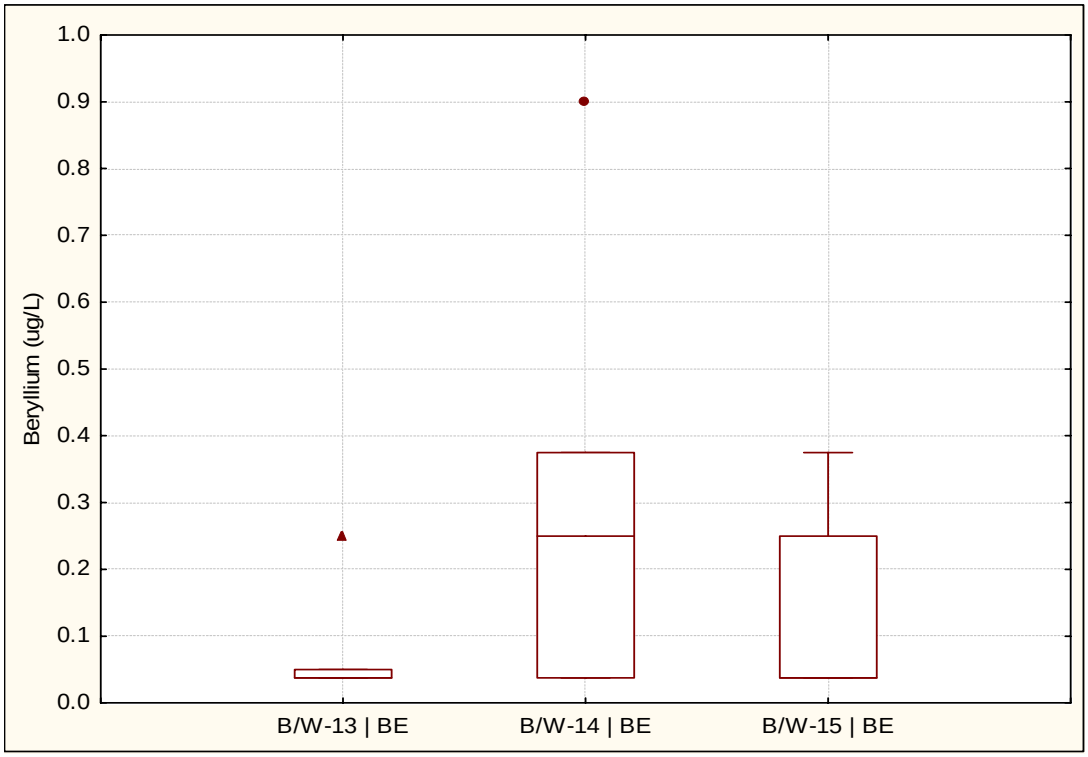
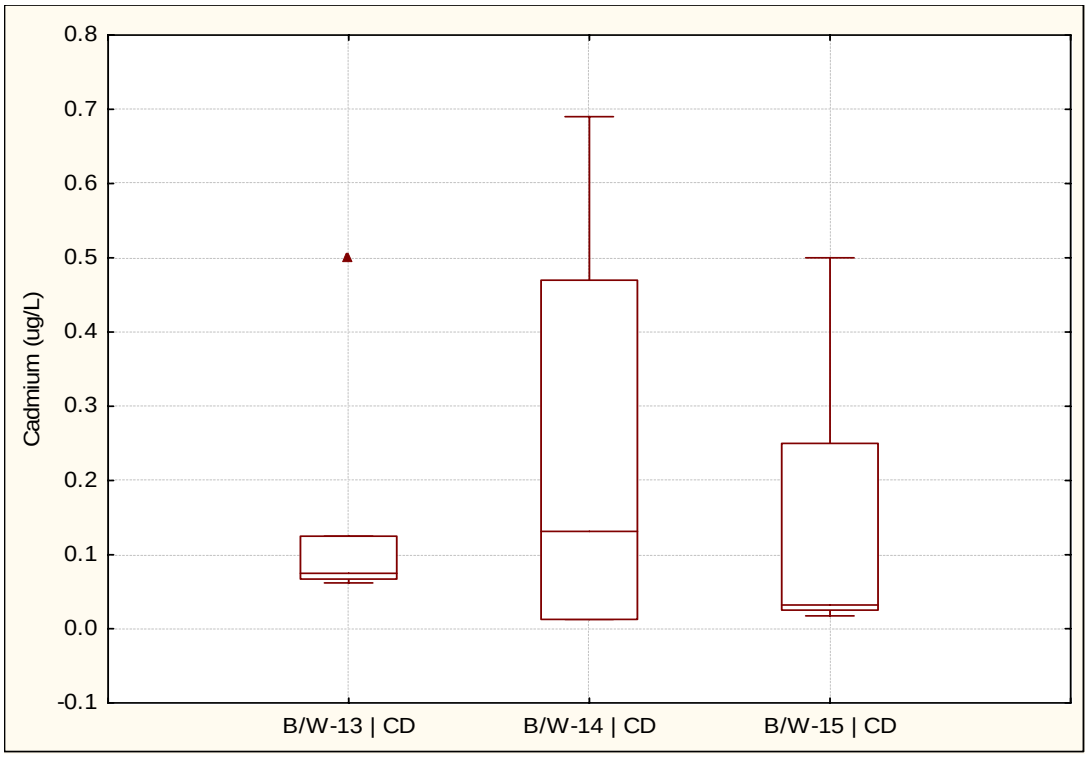


Figure B-4-1. Boxplots for Background Wells

Metals



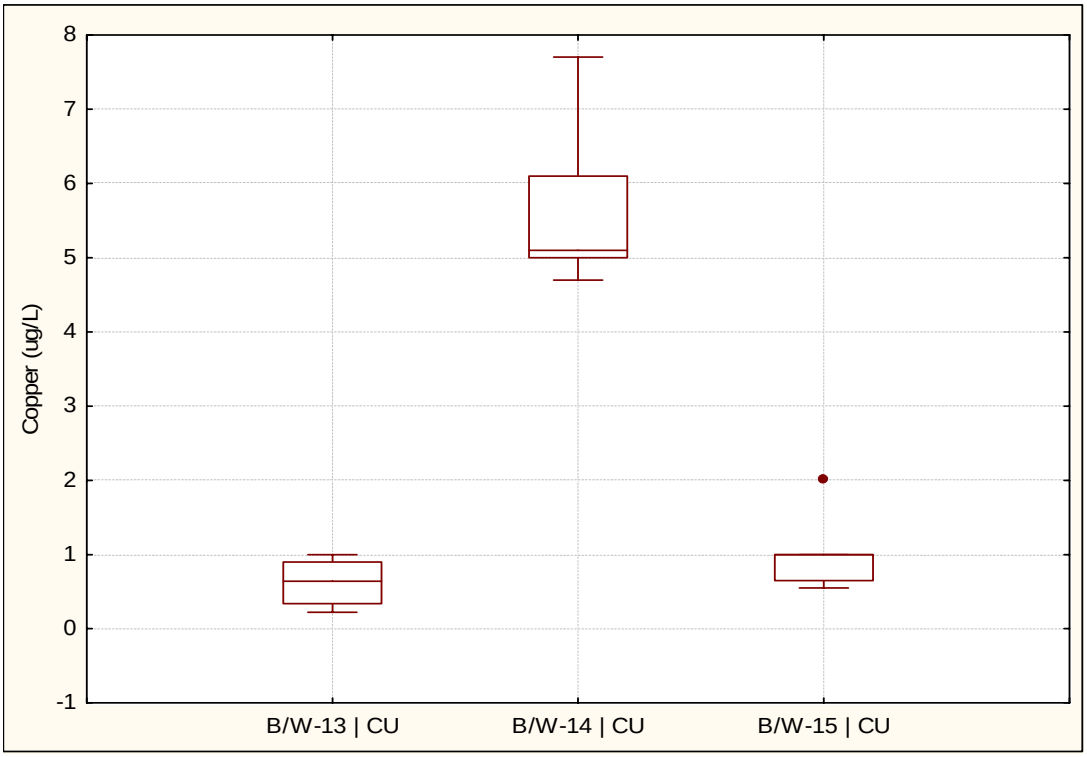
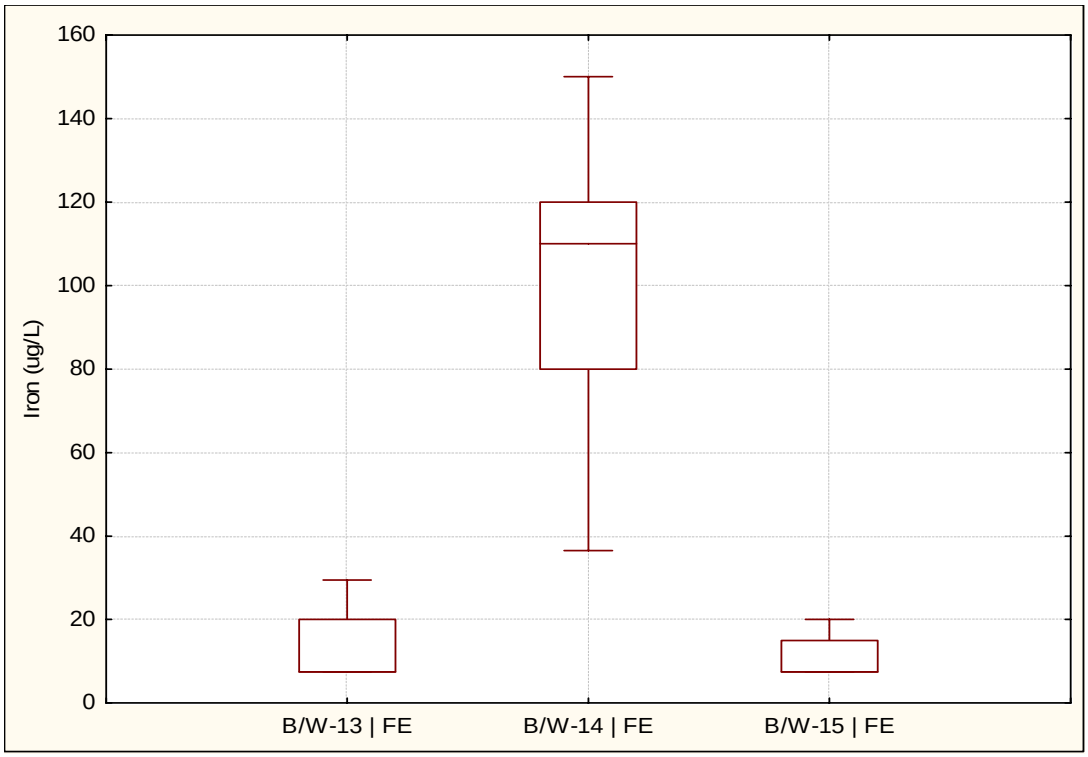


Figure B-4-1. Boxplots for Background Wells

Metals



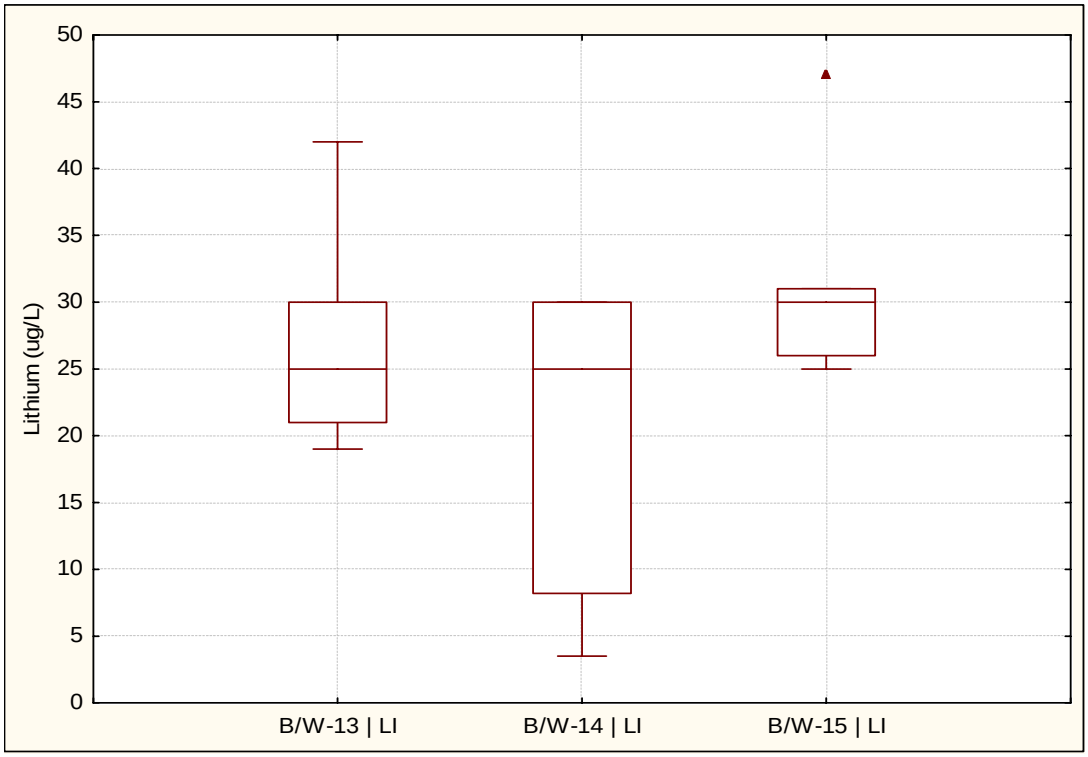
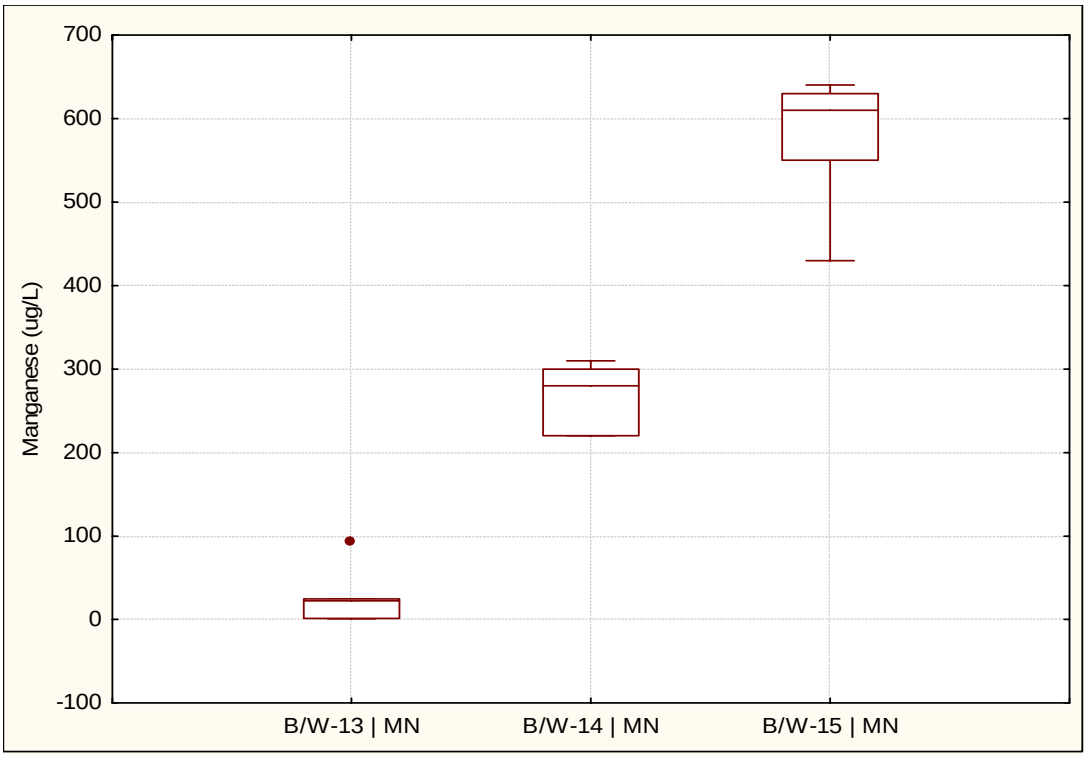


Figure B-4-1. Boxplots for Background Wells

Metals



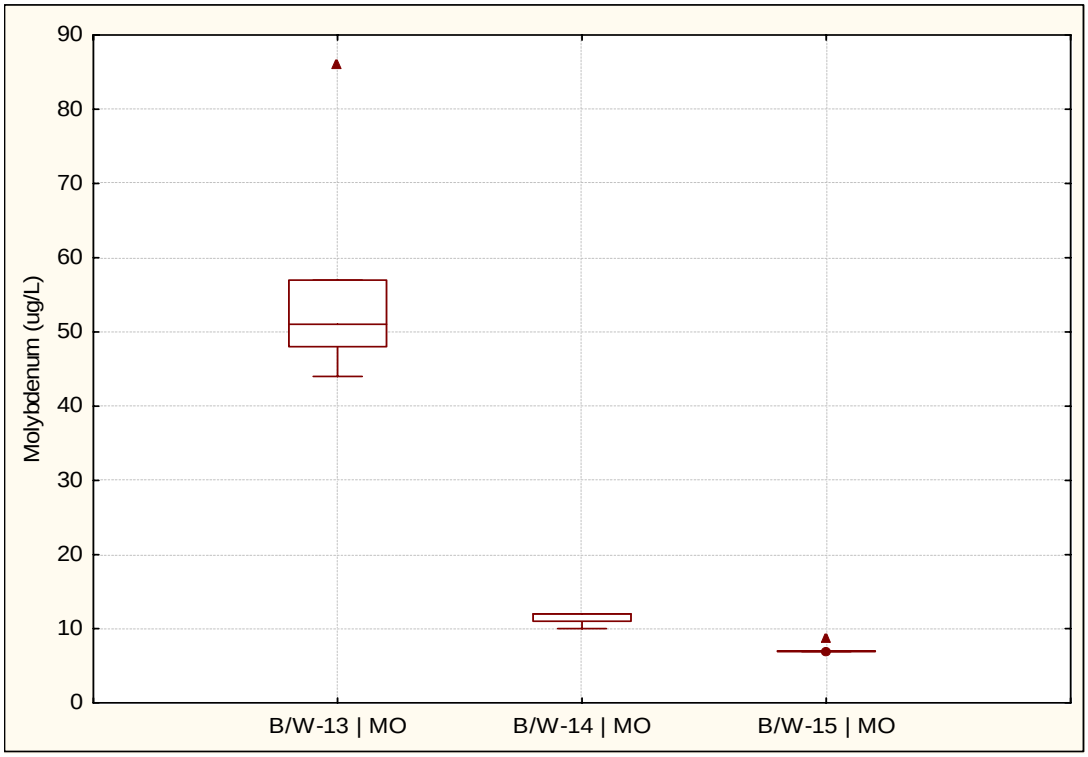
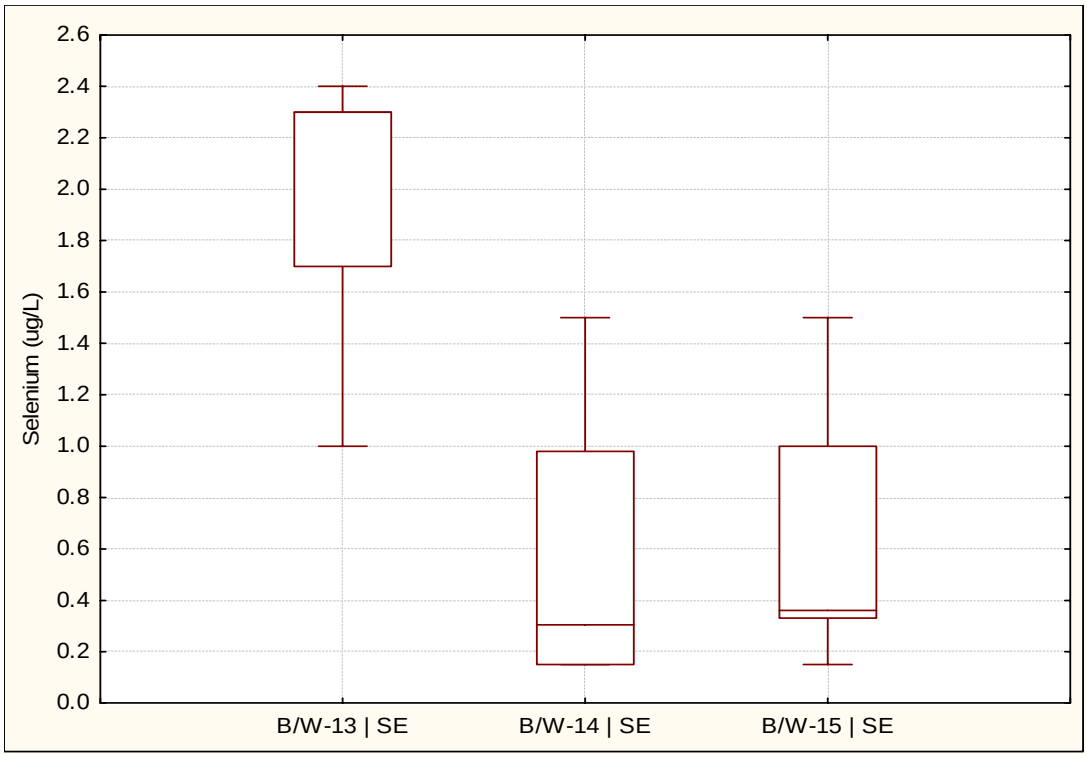


Figure B-4-1. Boxplots for Background Wells

Metals



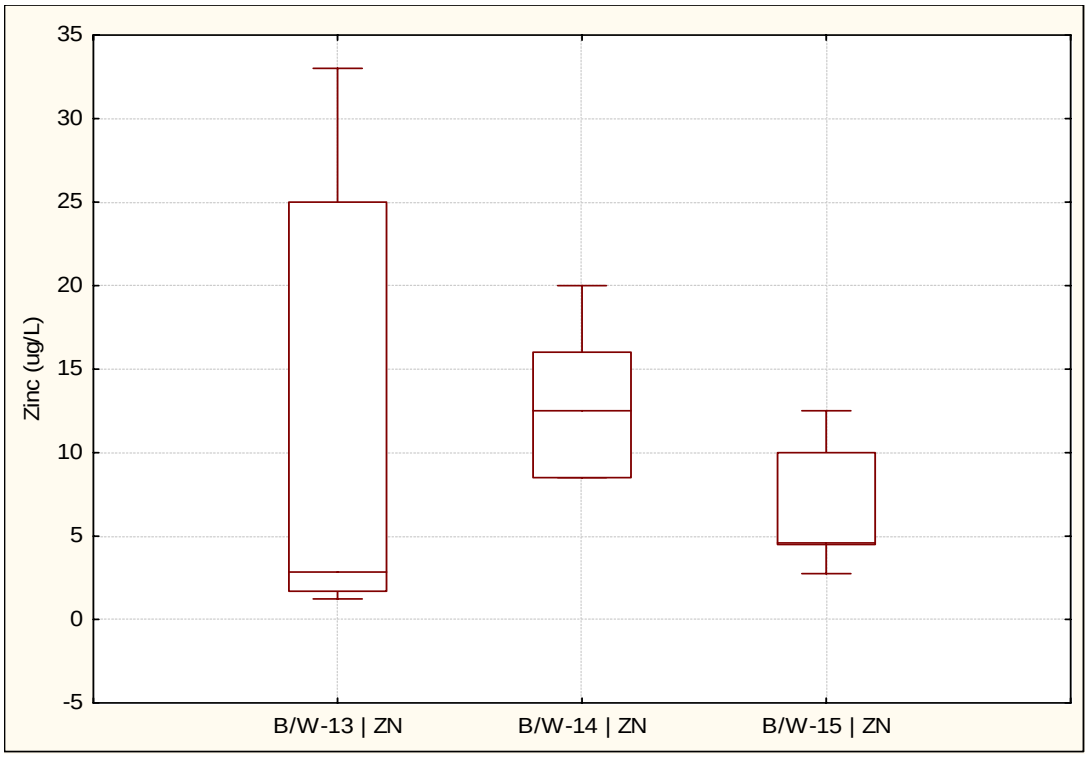
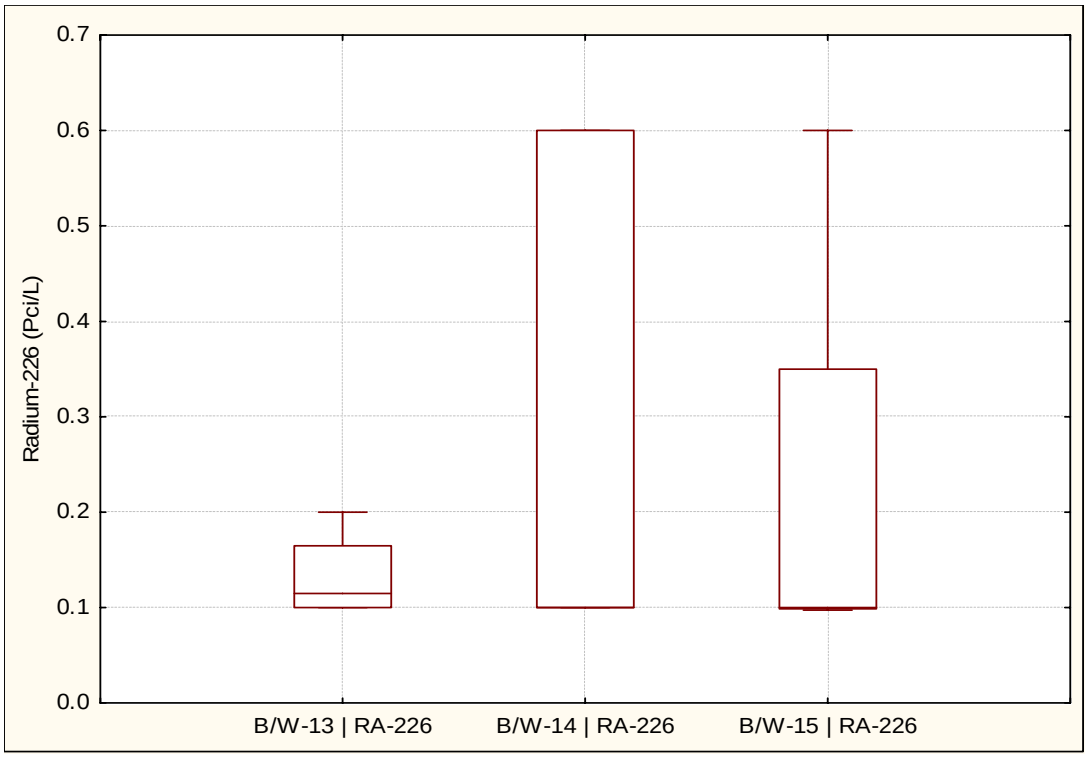


Figure B-4-1. Boxplots for Background Wells

Radiochemicals



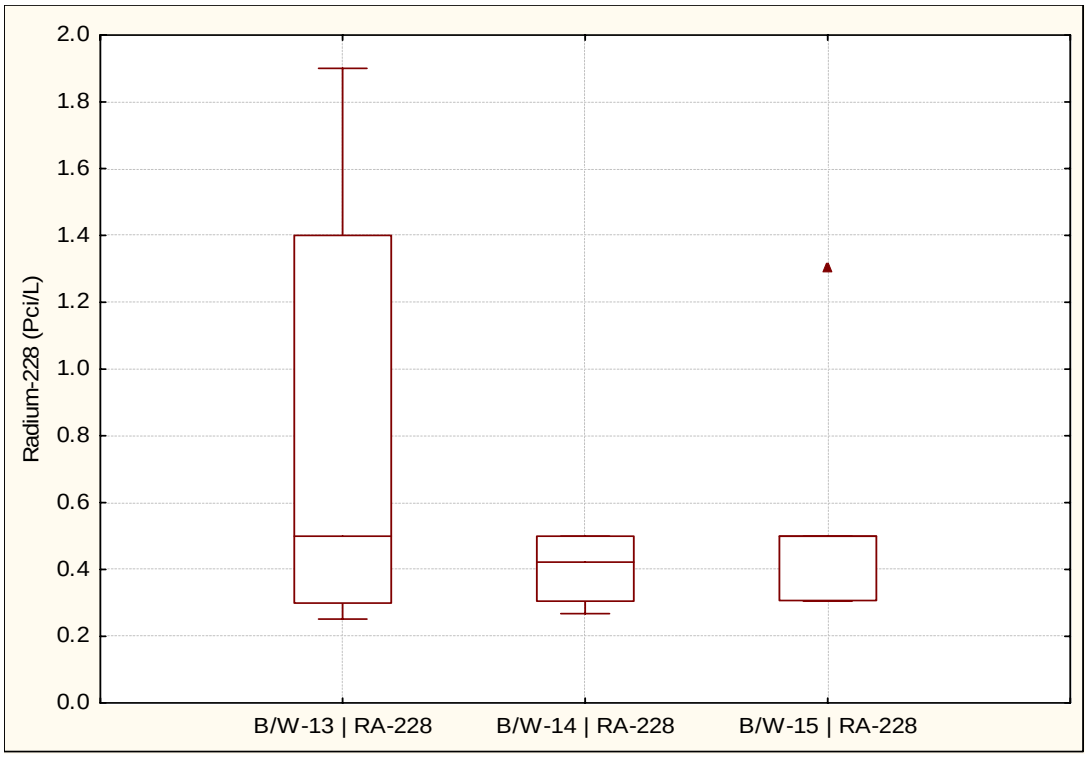
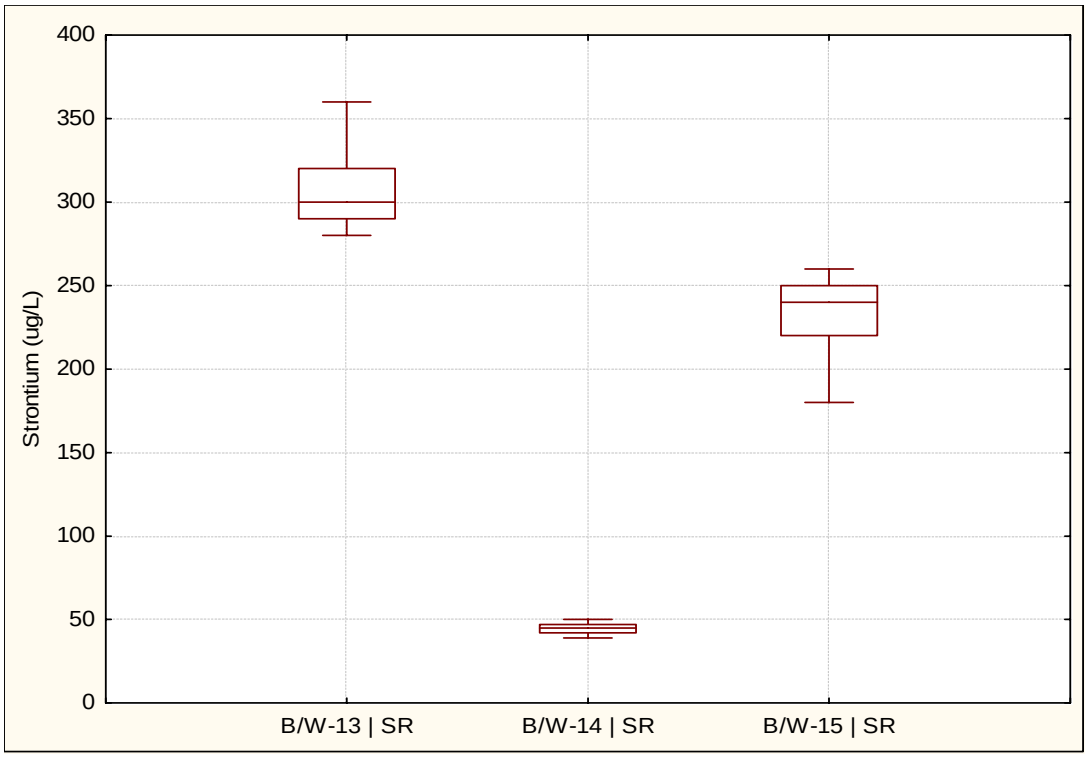


Figure B-4-1. Boxplots for Background Wells

Radiochemicals



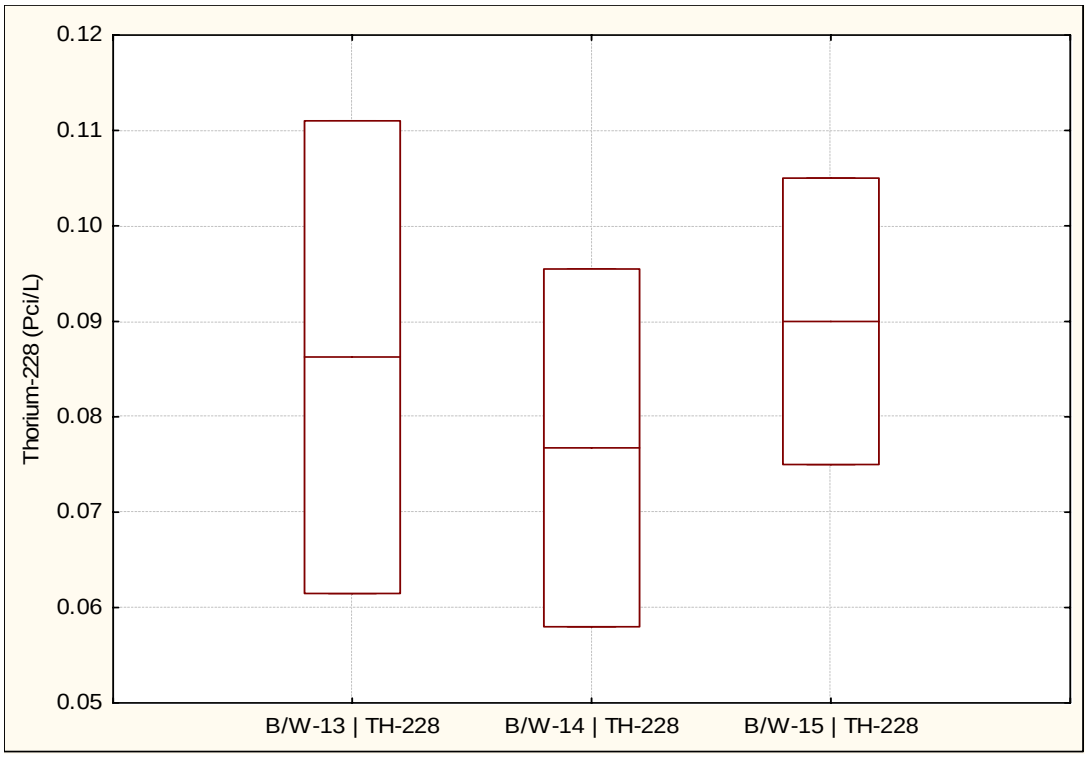
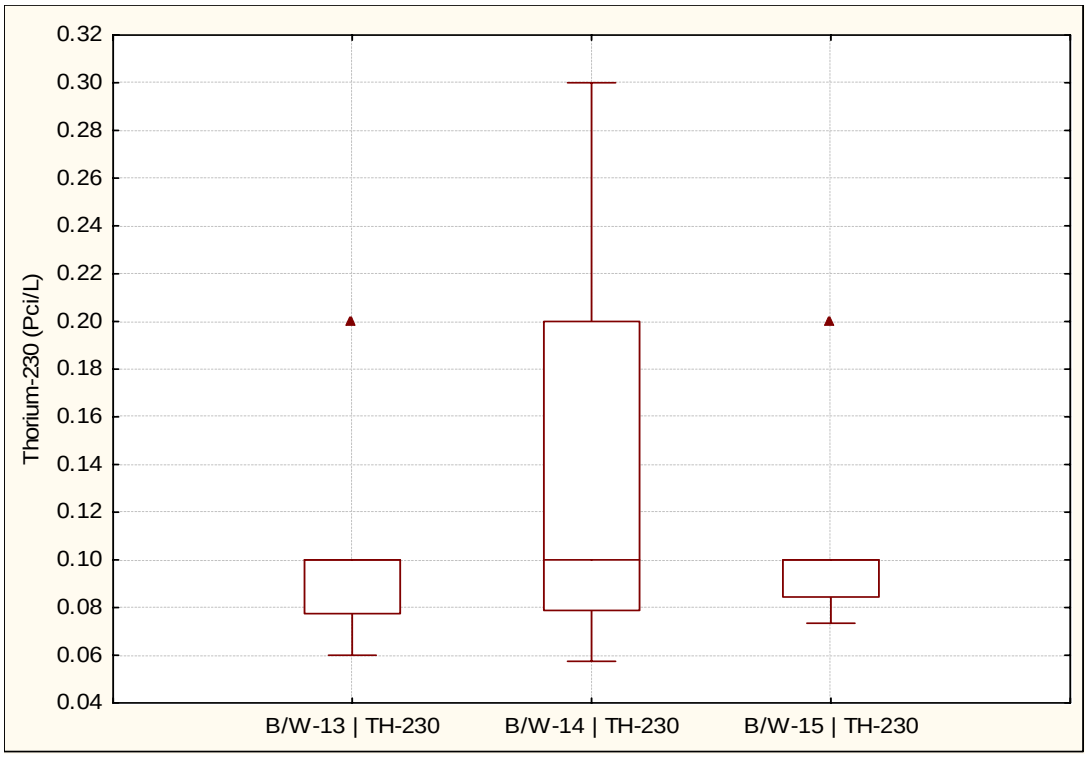


Figure B-4-1. Boxplots for Background Wells

Radiochemicals



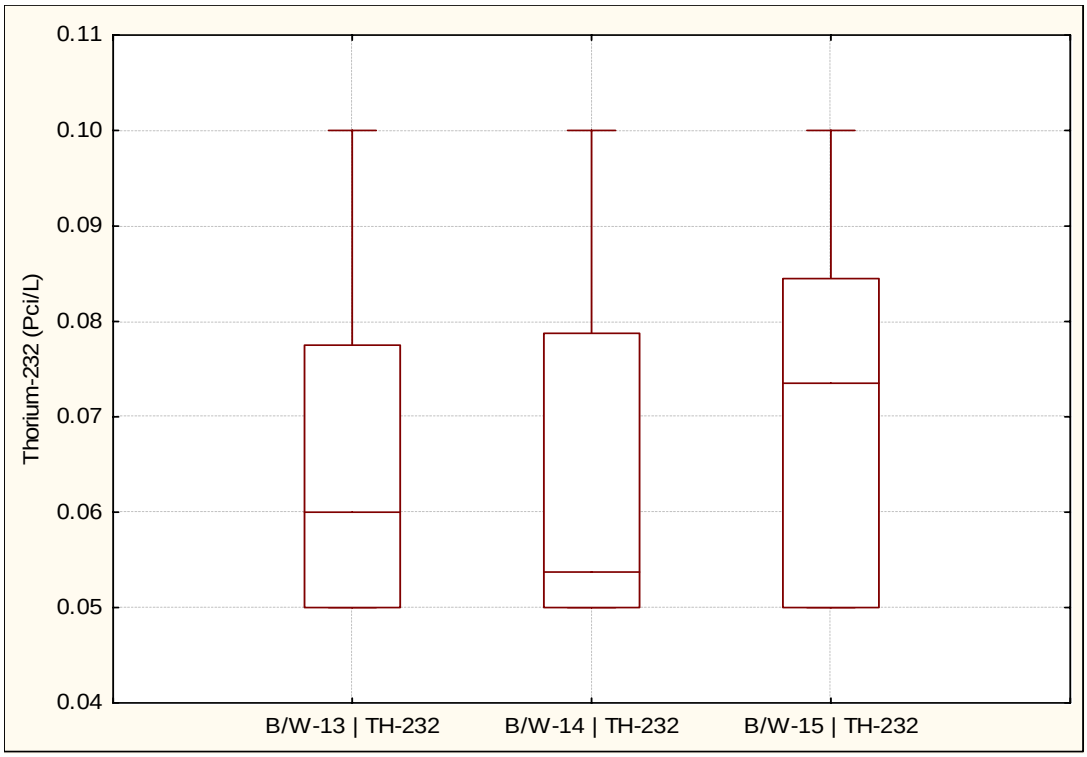


Figure B-4-1. Boxplots for Background Wells

Radiochemicals

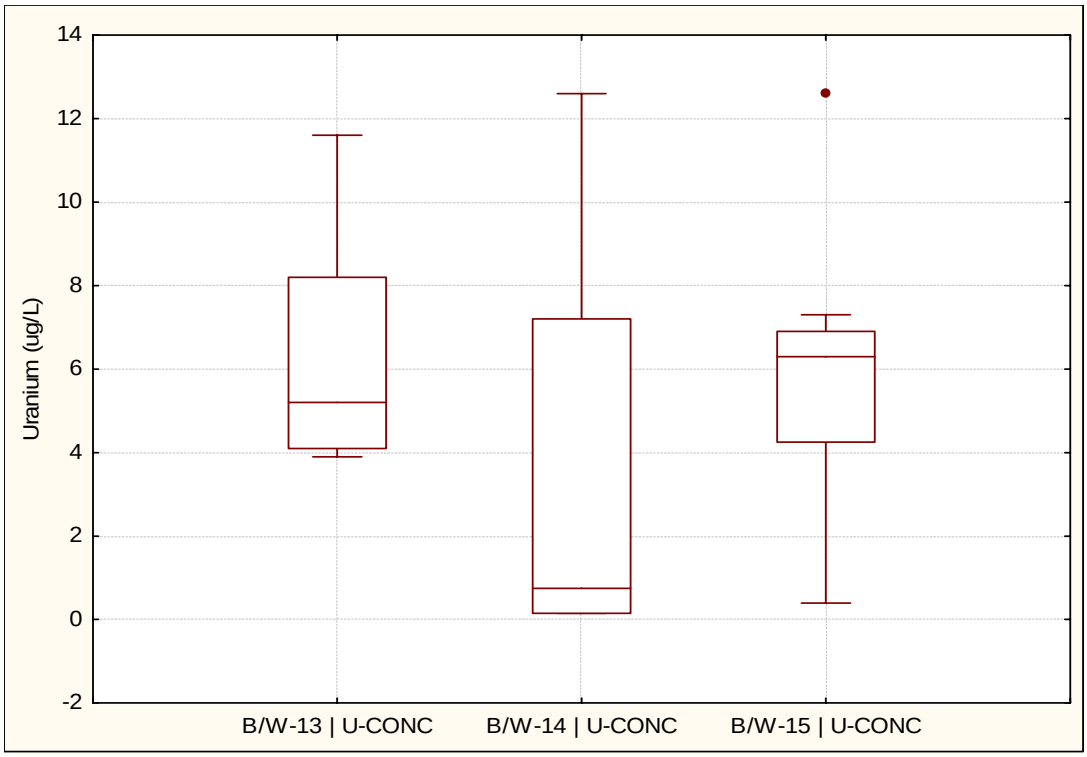
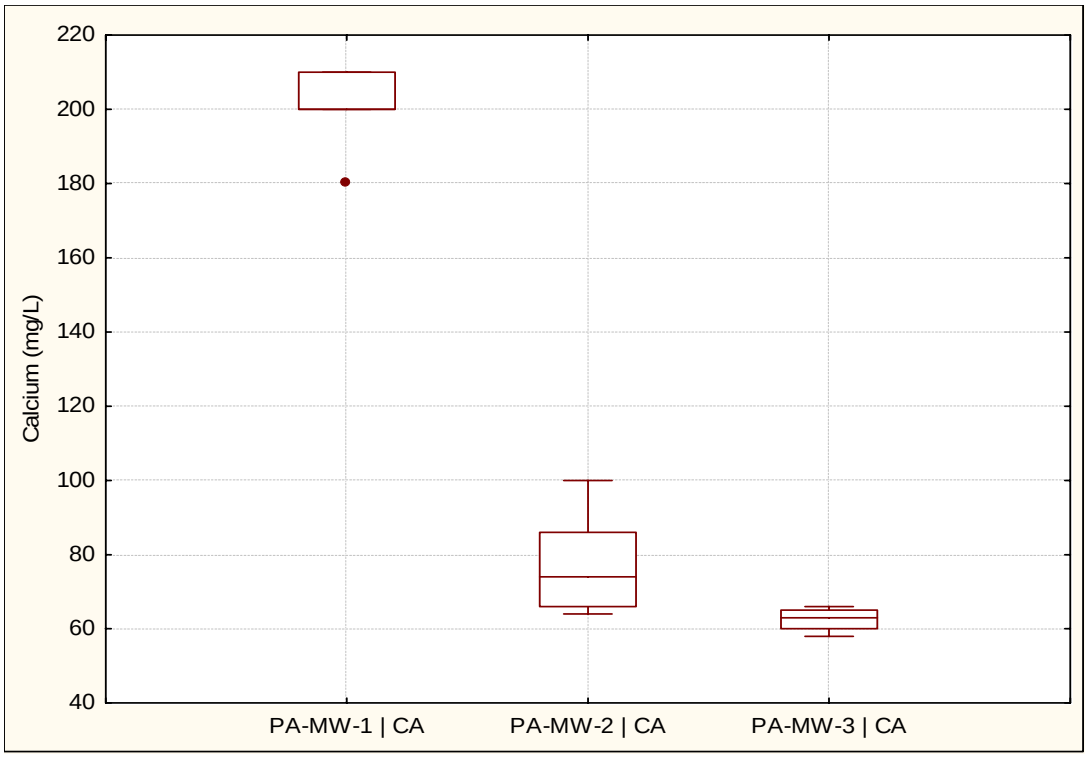


Figure B-4-2 Boxplots for Process Area Wells

Water Quality Parameters and Major Ions



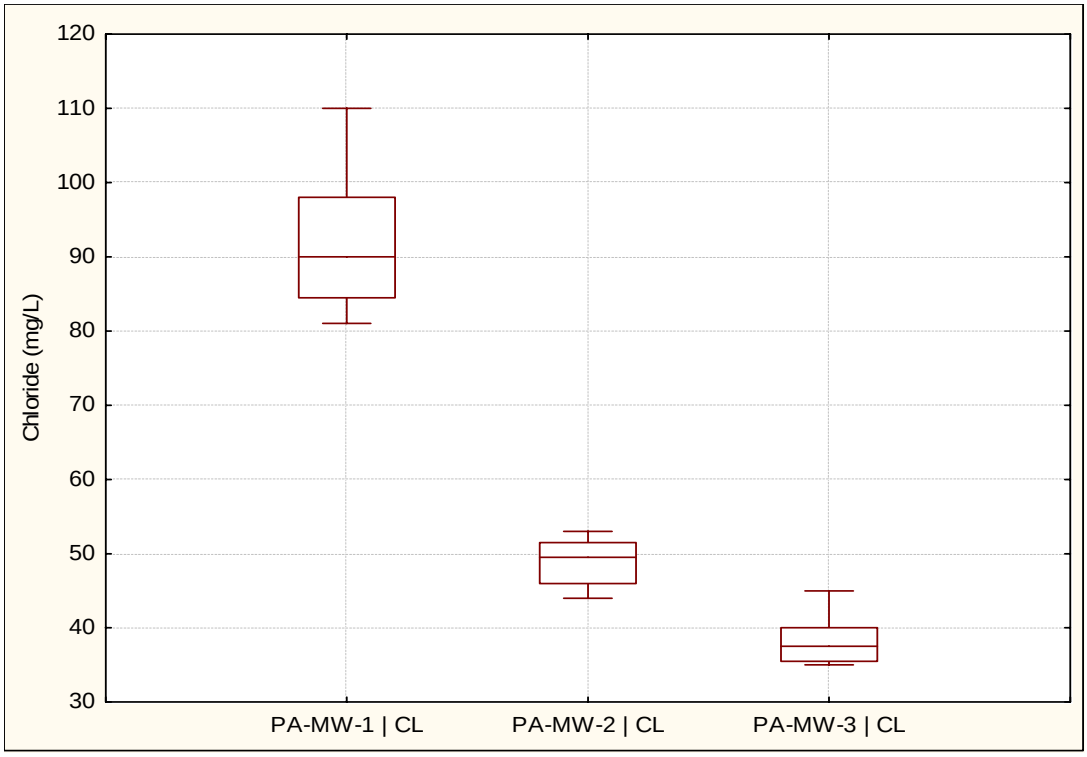
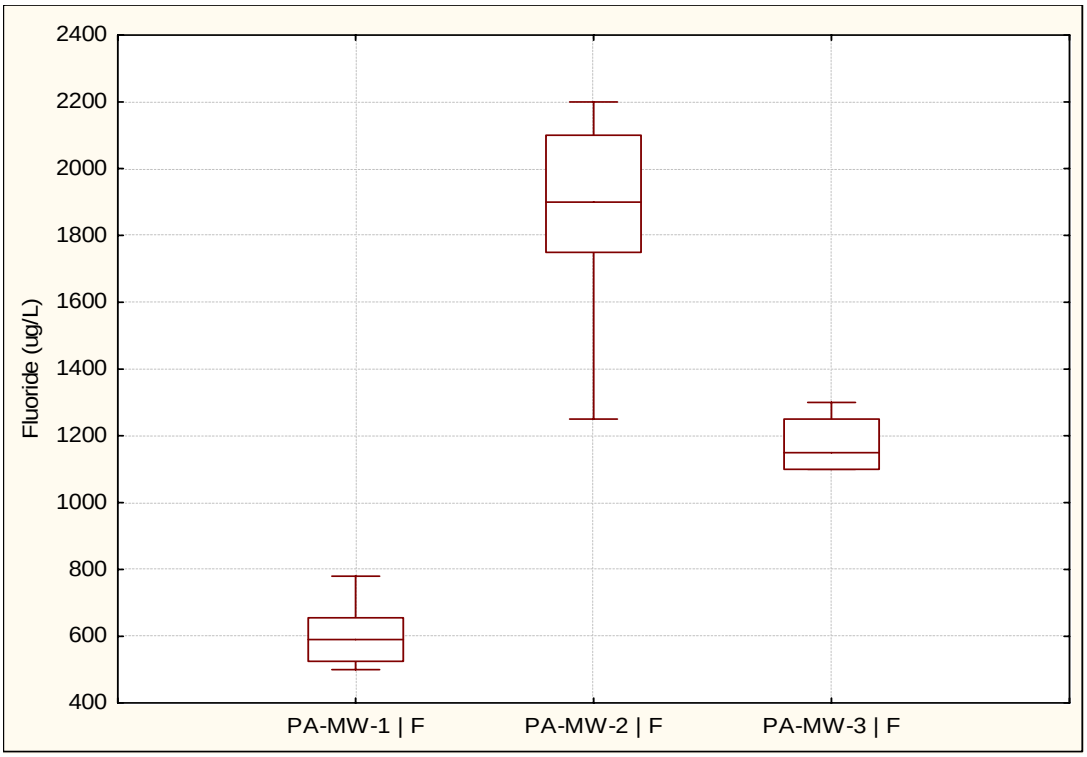


Figure B-4-2 Boxplots for Process Area Wells

Water Quality Parameters and Major Ions



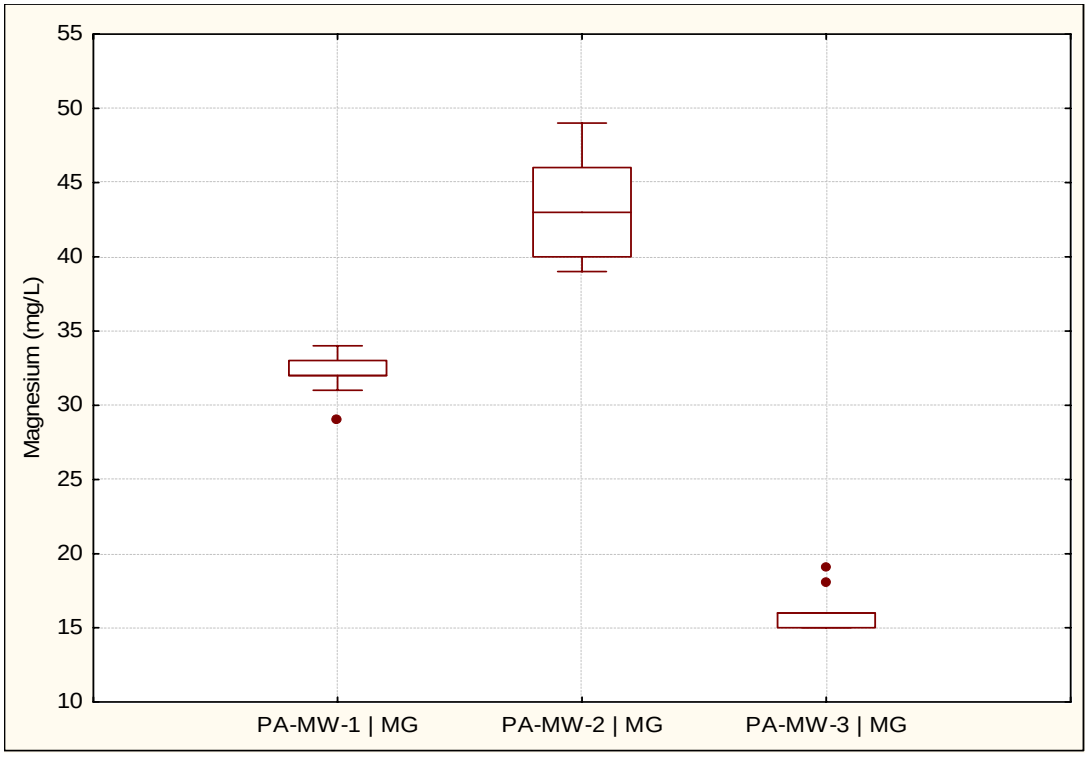
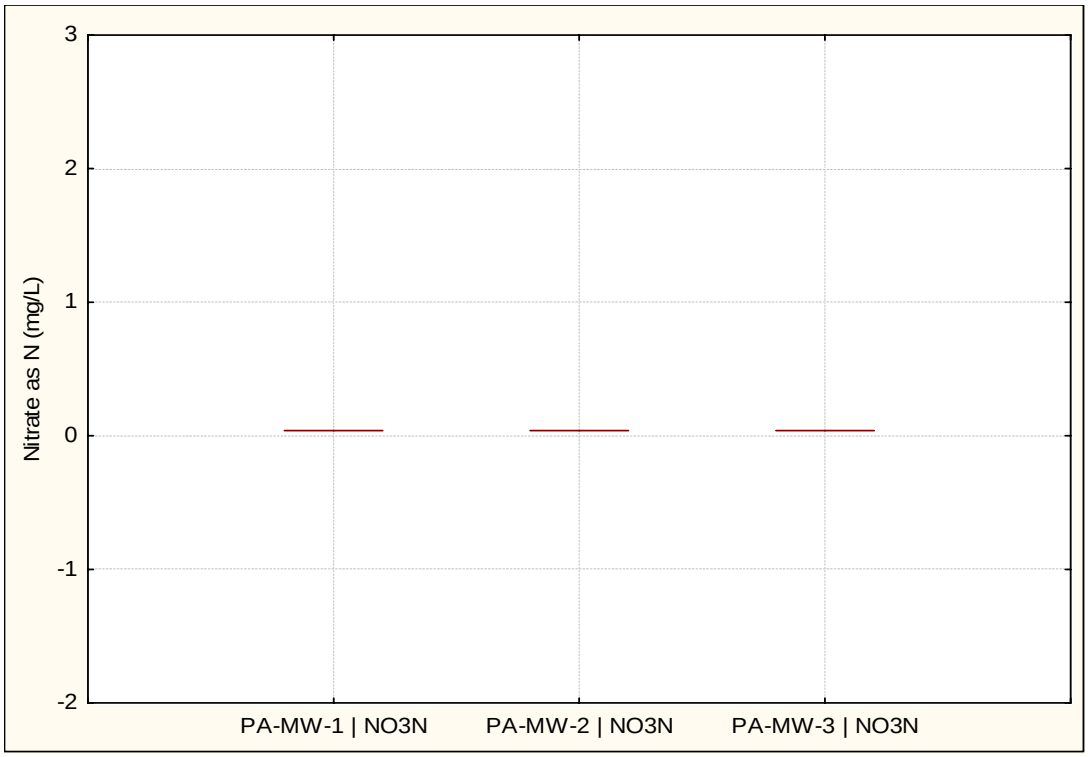


Figure B-4-2 Boxplots for Process Area Wells

Water Quality Parameters and Major Ions



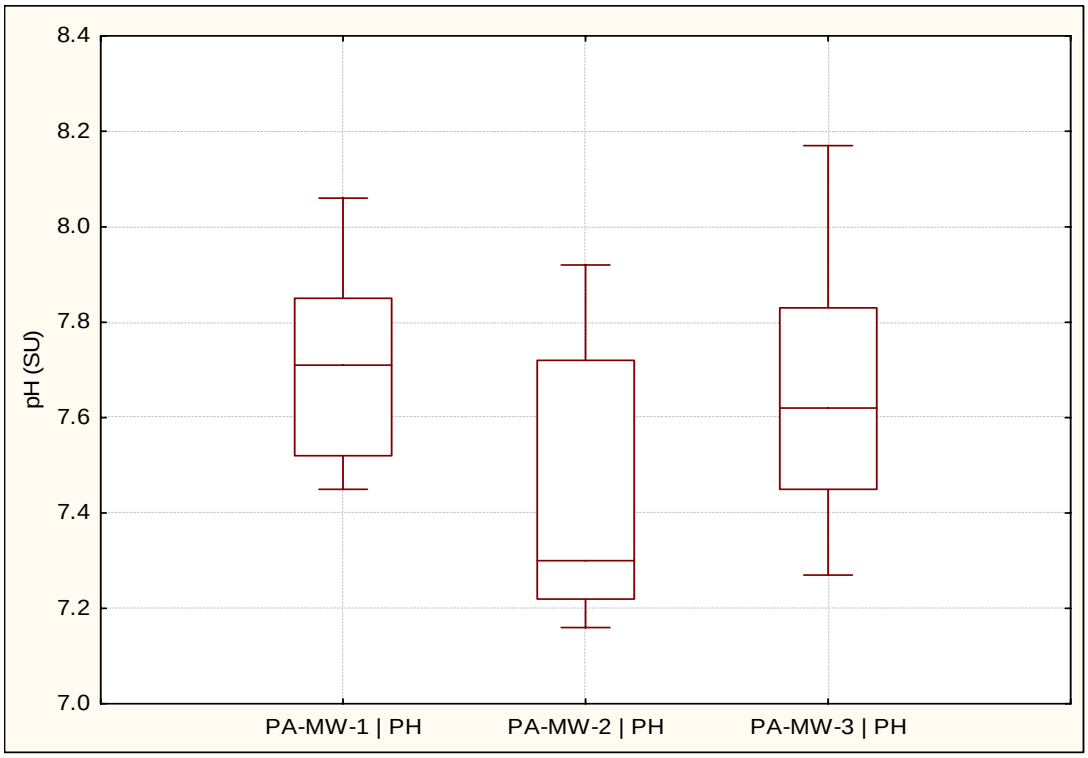
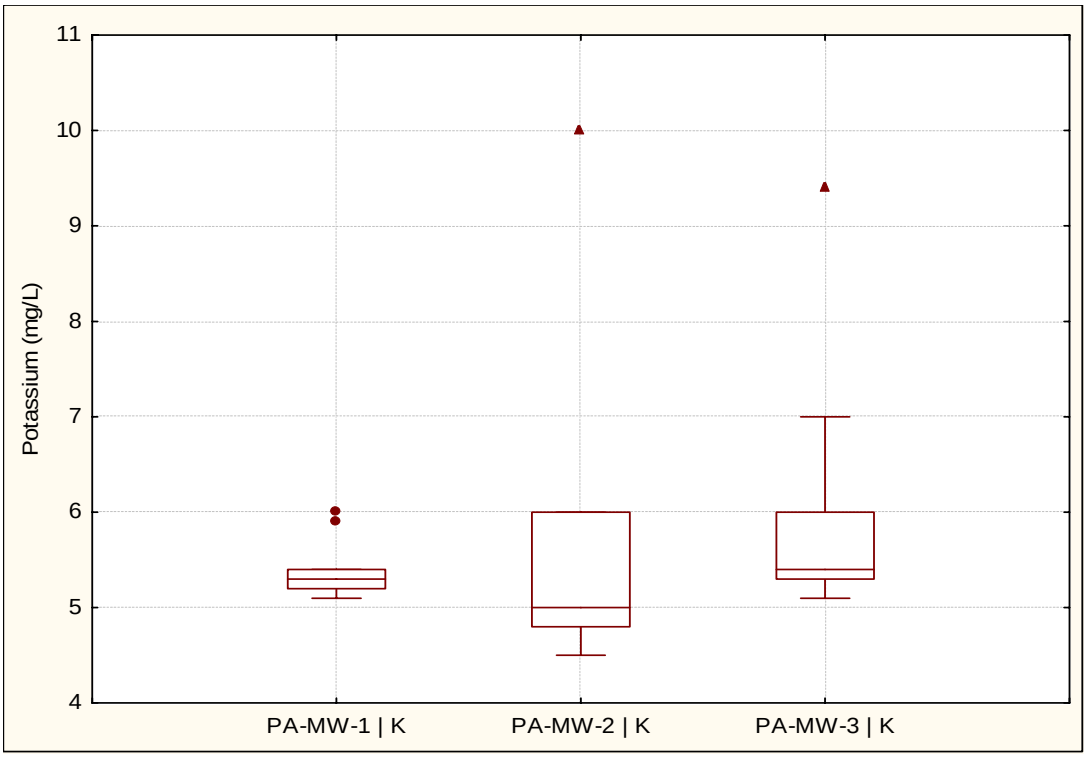


Figure B-4-2 Boxplots for Process Area Wells

Water Quality Parameters and Major Ions



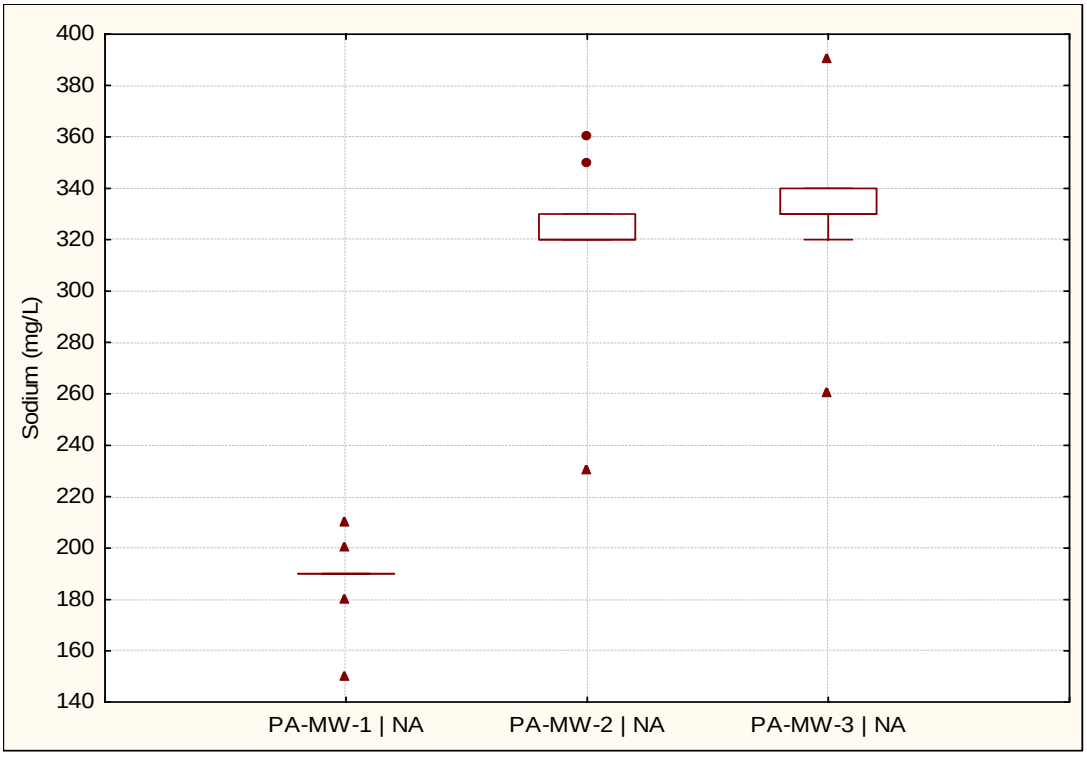
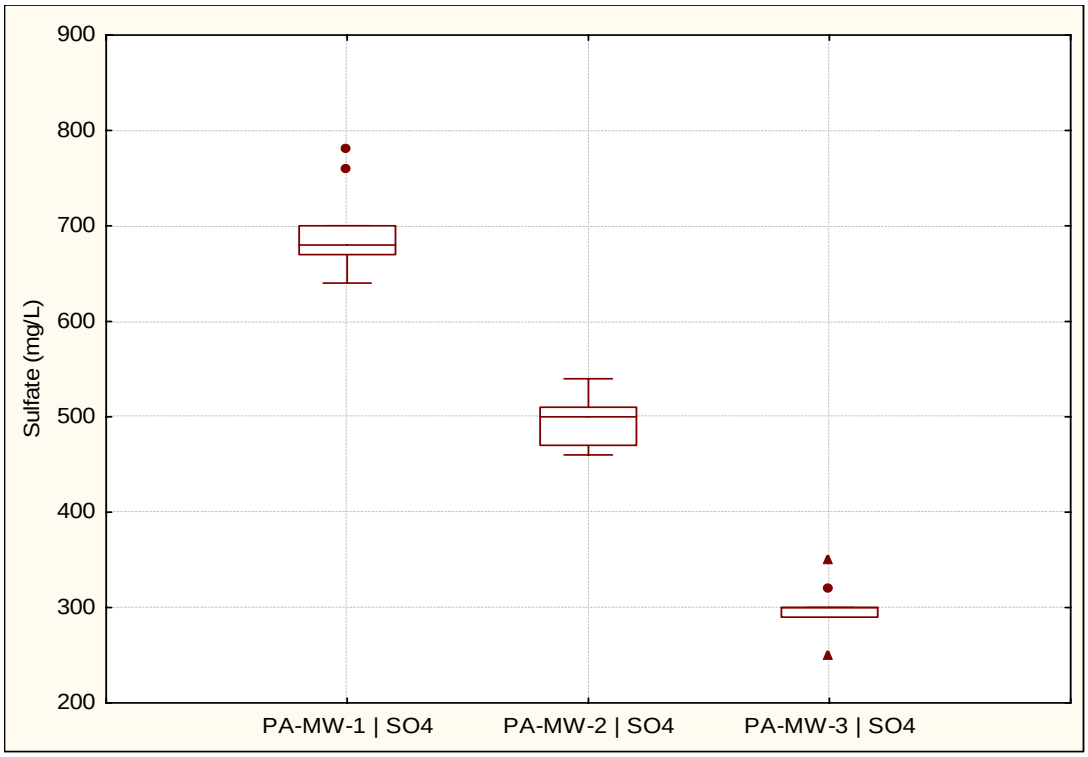


Figure B-4-2 Boxplots for Process Area Wells

Water Quality Parameters and Major Ions



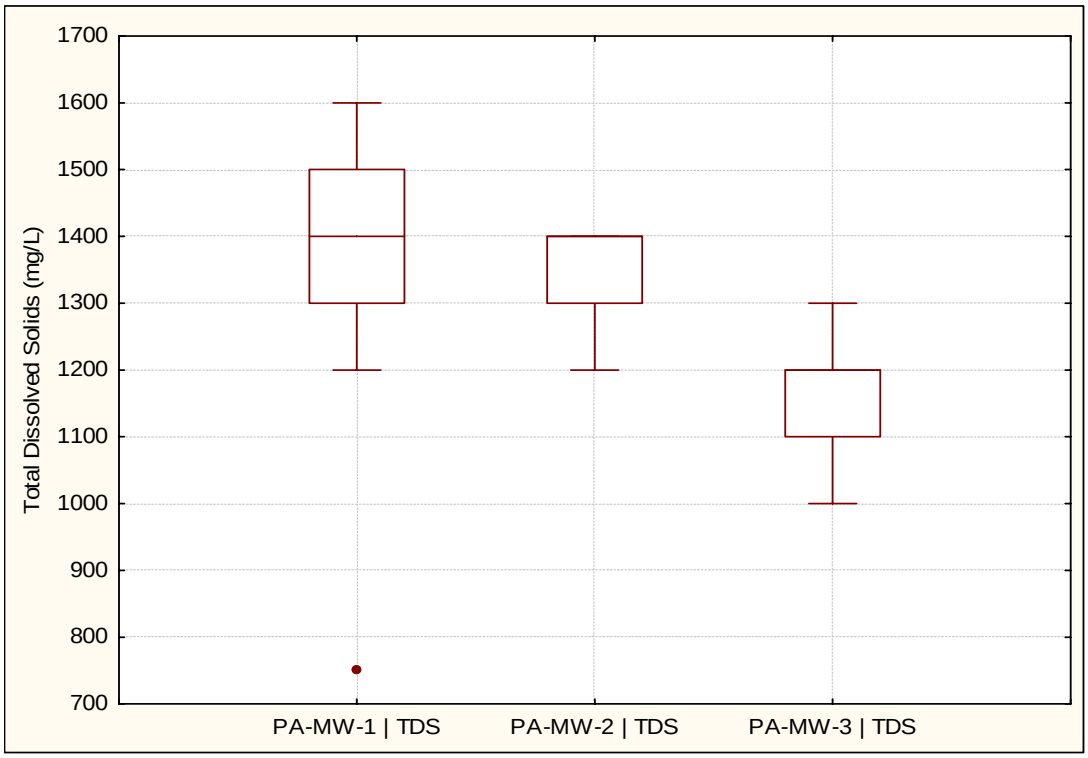
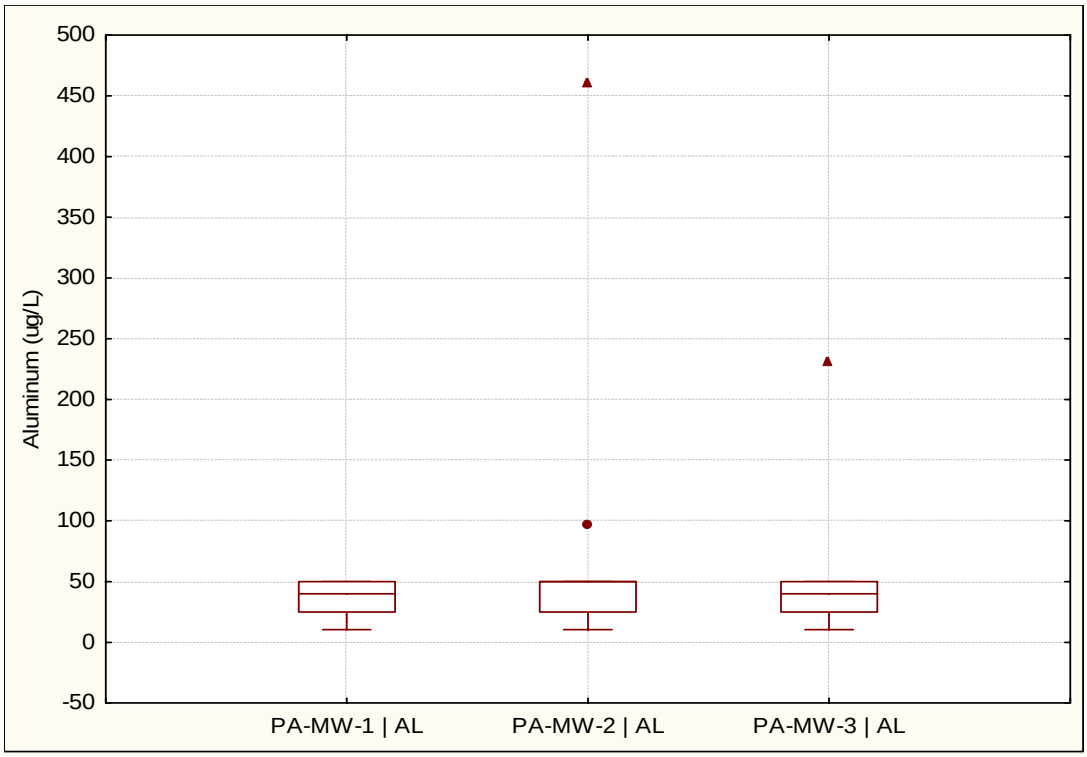


Figure B-4-2 Boxplots for Process Area Wells

Metals



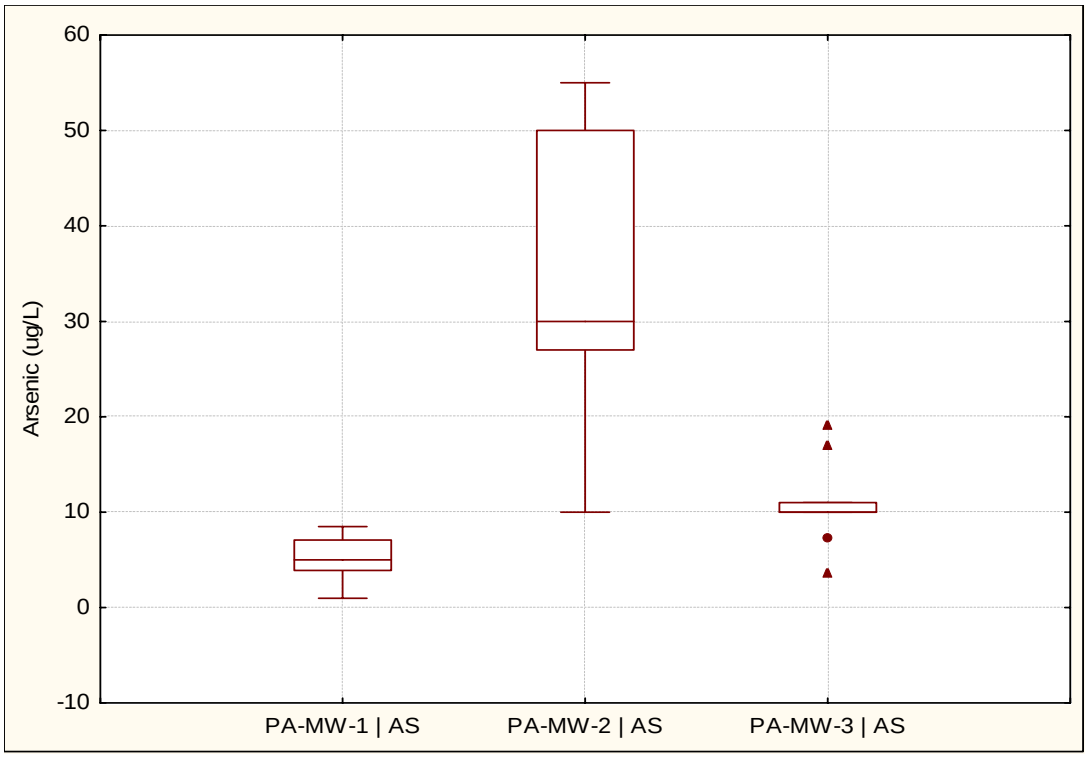
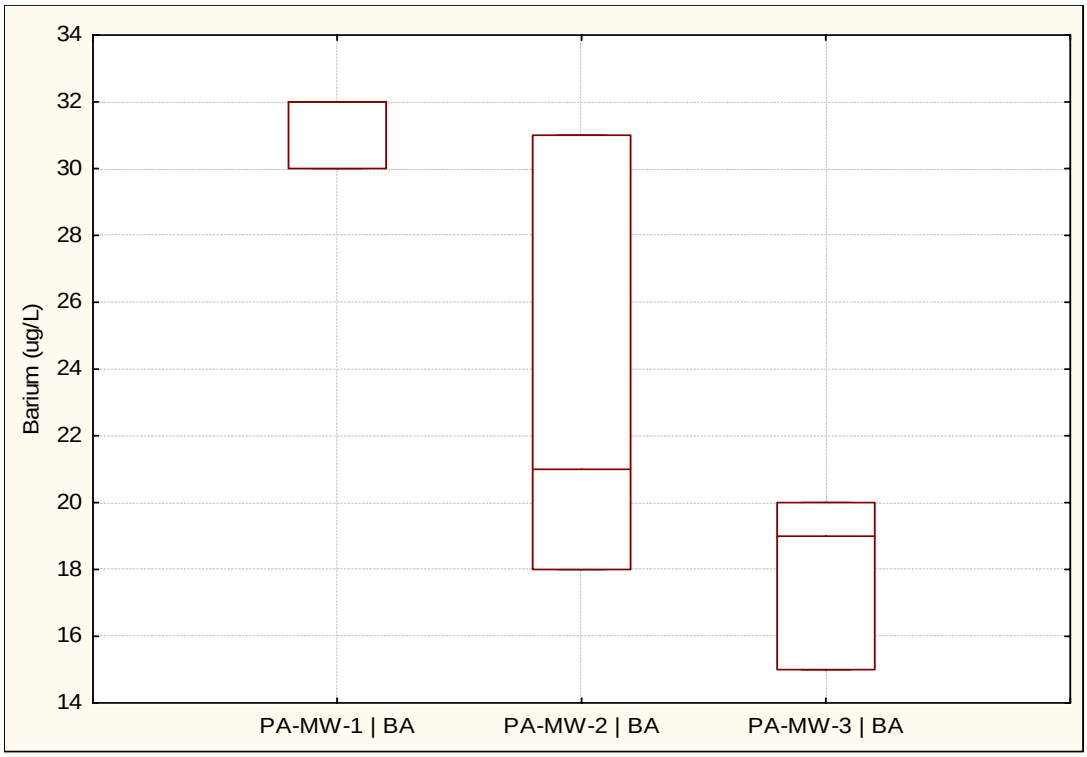


Figure B-4-2 Boxplots for Process Area Wells

Metals



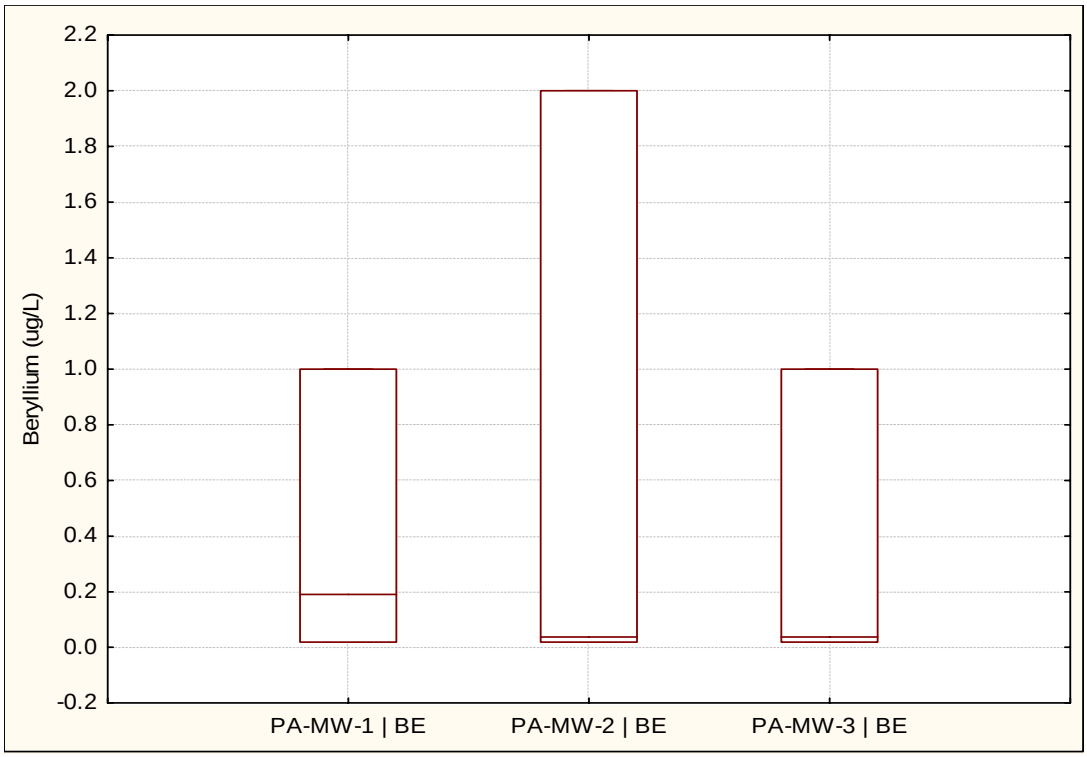
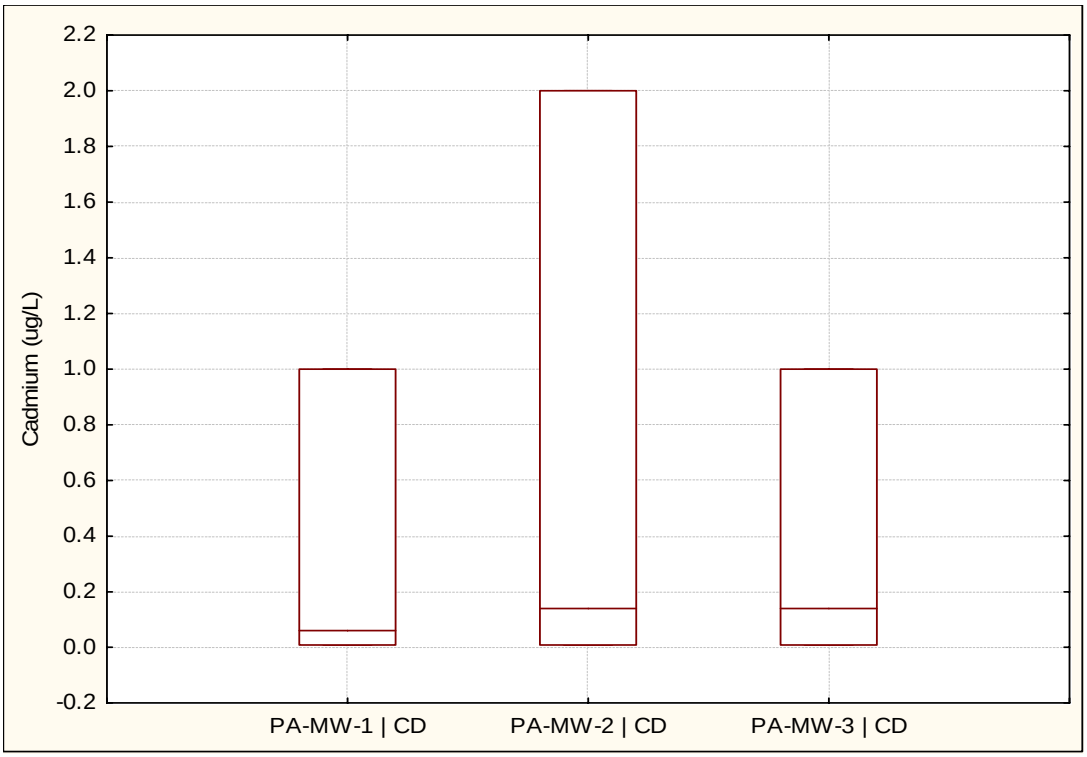


Figure B-4-2 Boxplots for Process Area Wells

Metals



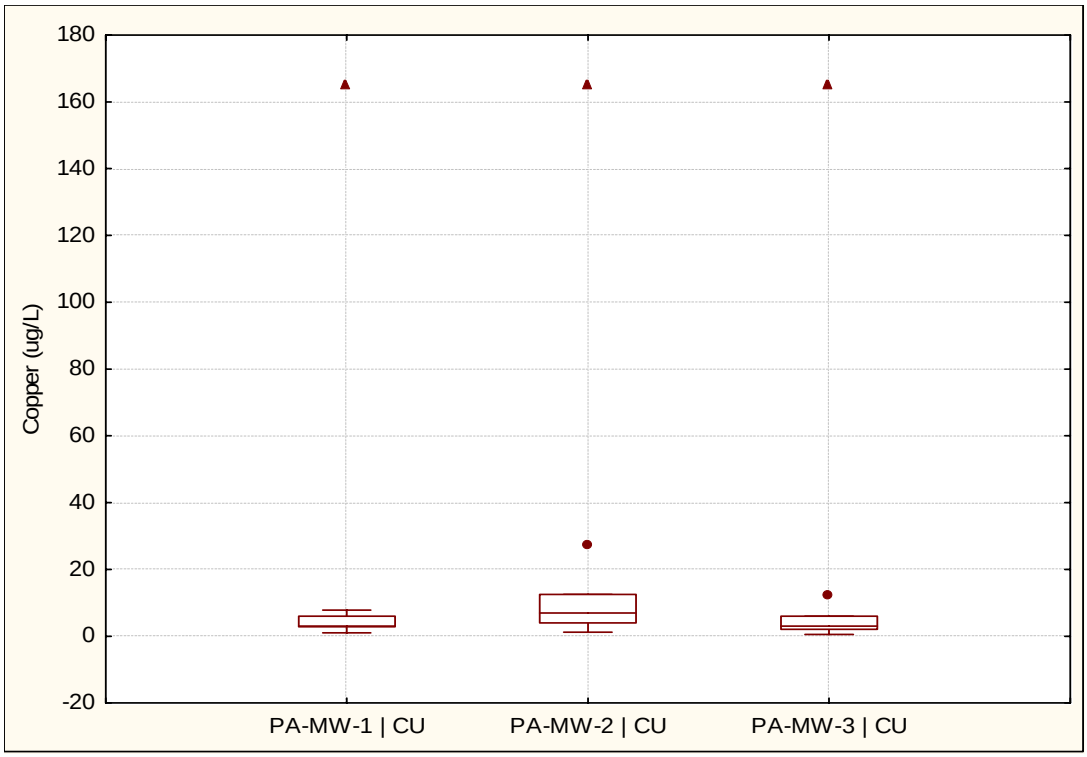
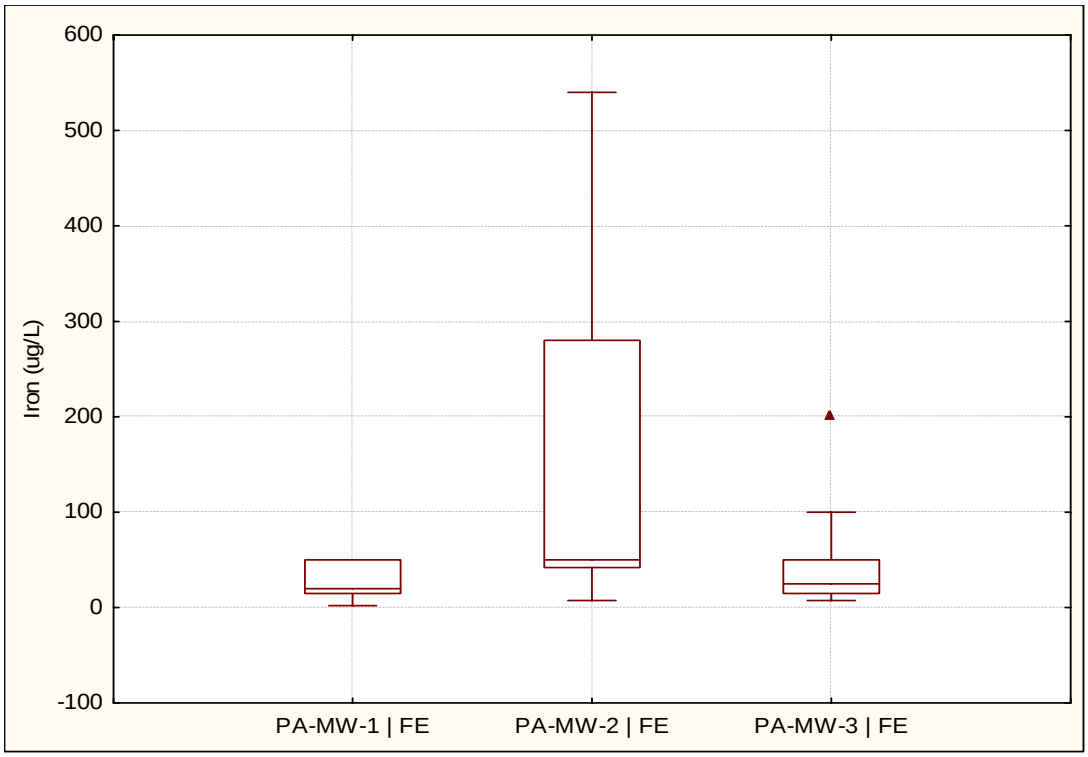


Figure B-4-2 Boxplots for Process Area Wells

Metals



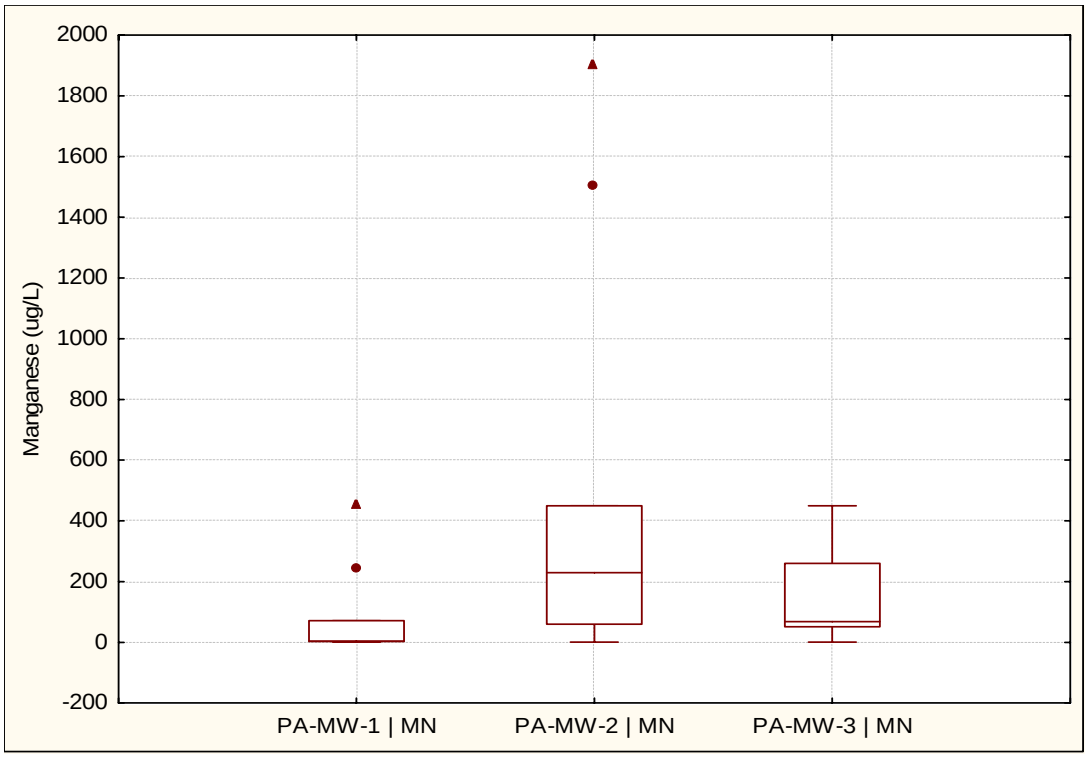
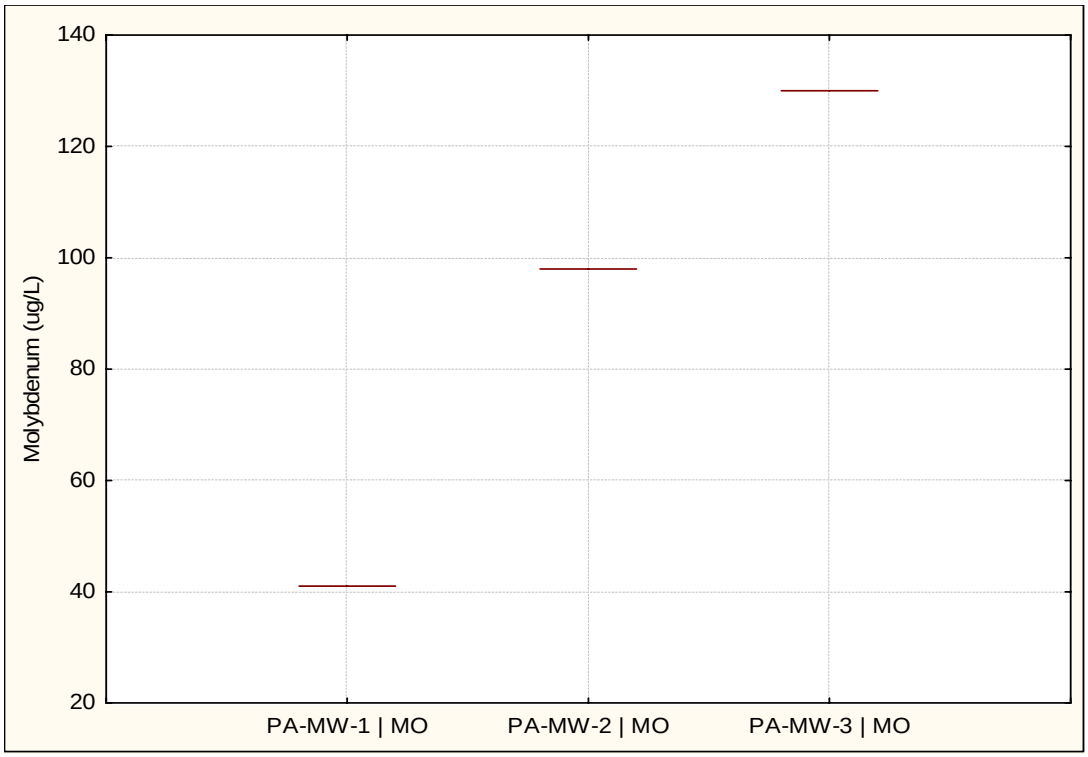


Figure B-4-2 Boxplots for Process Area Wells

Metals



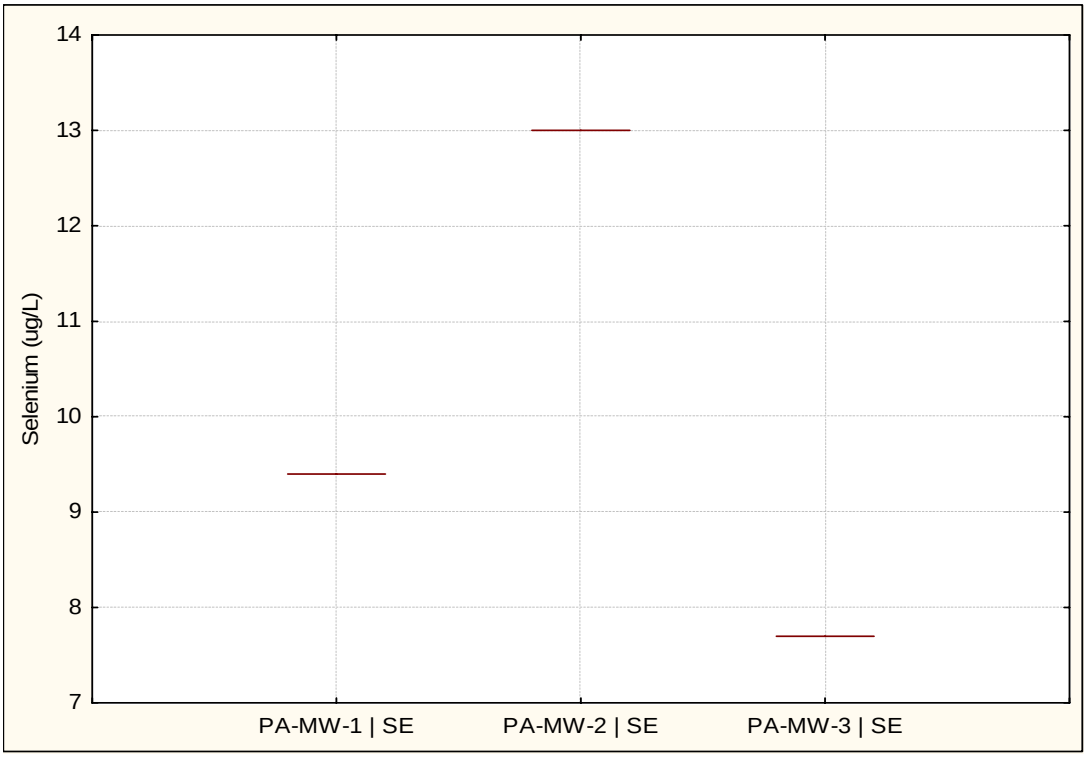


Figure B-4-2 Boxplots for Process Area Wells

Metals

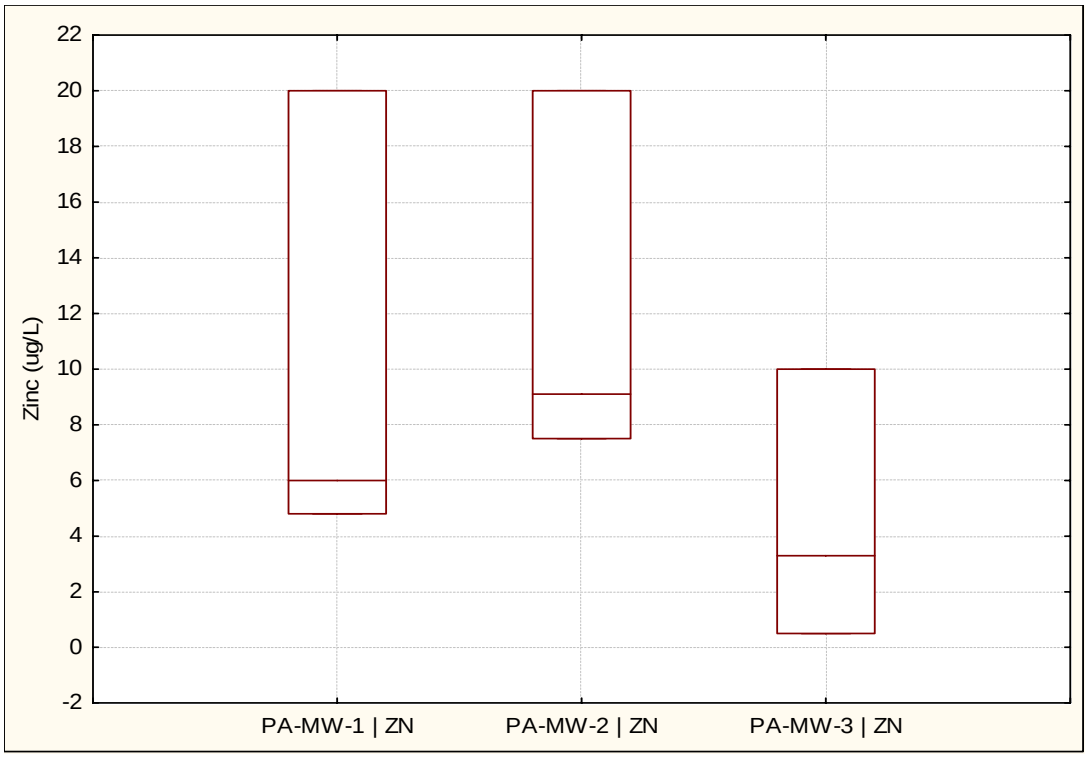
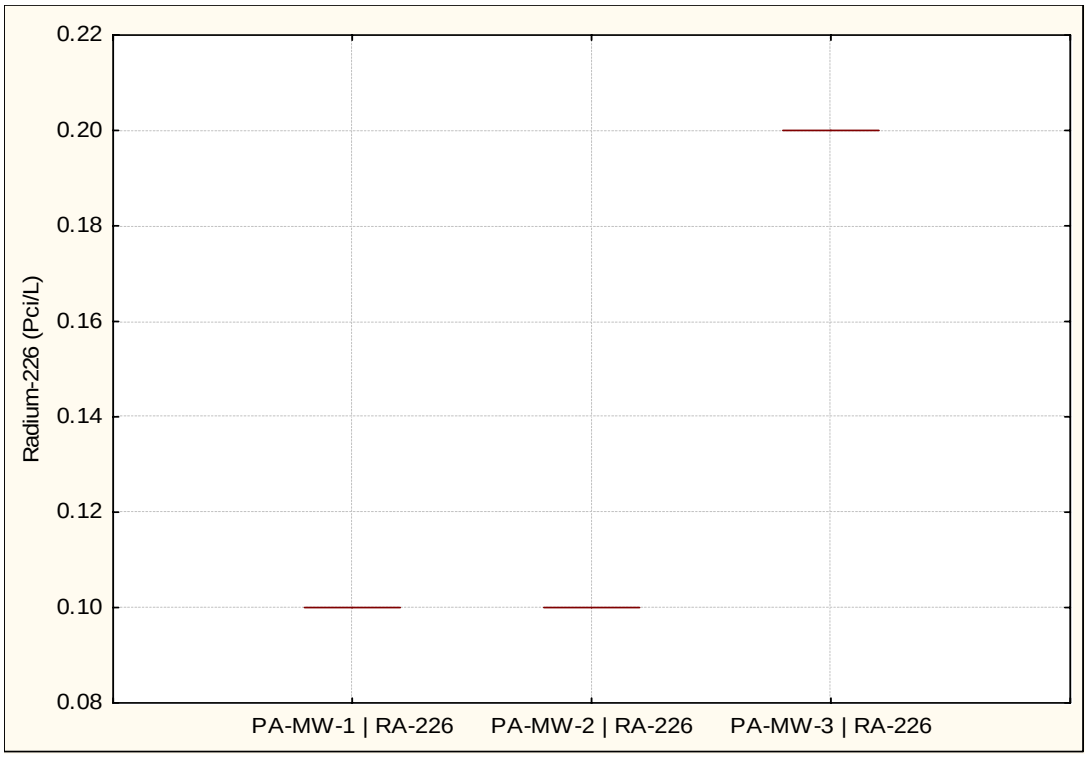


Figure B-4-2 Boxplots for Process Area Wells

Radiochemicals



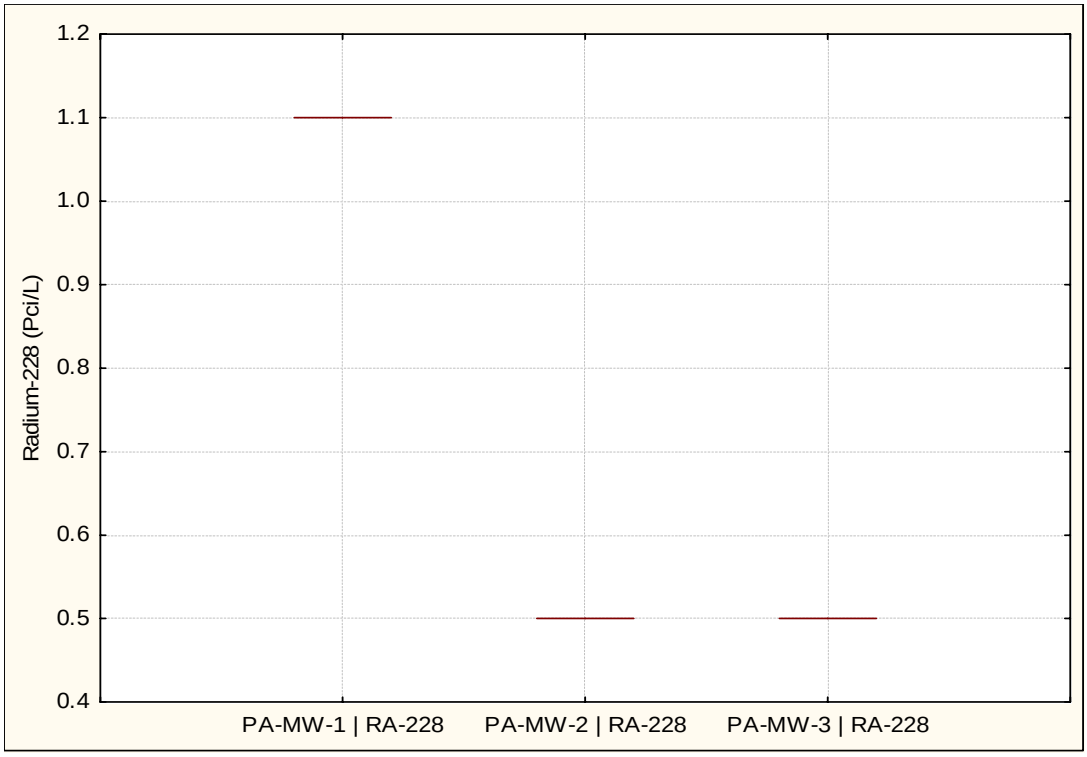
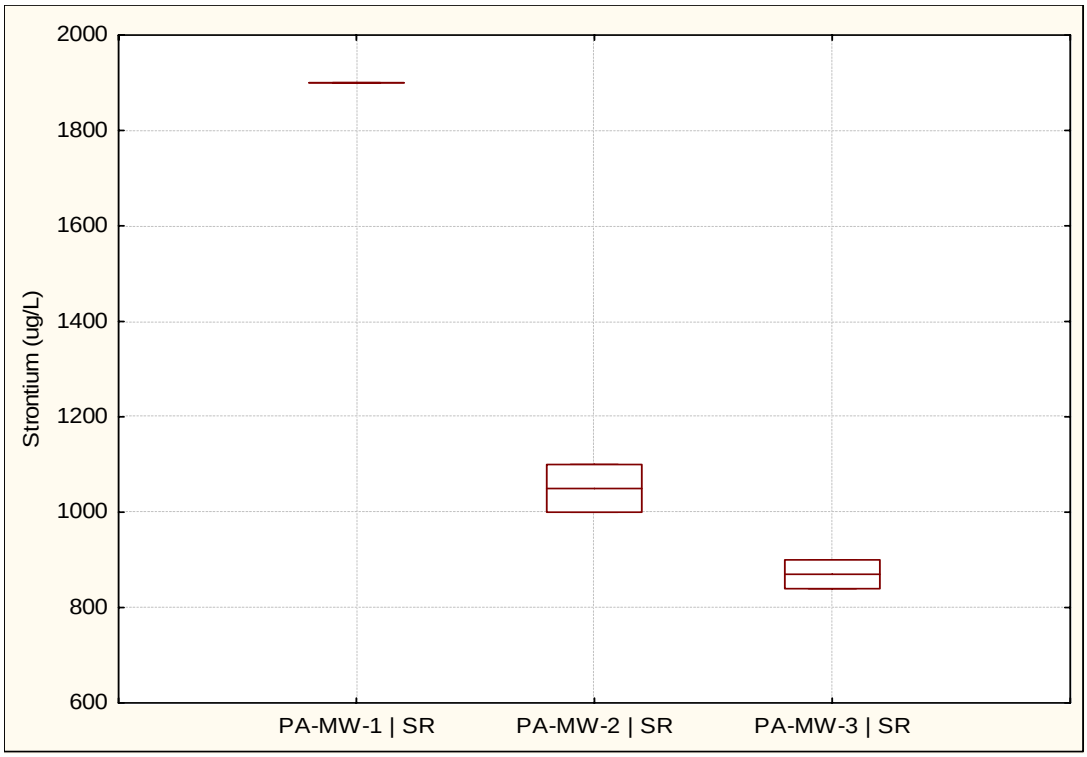


Figure B-4-2 Boxplots for Process Area Wells

Radiochemicals



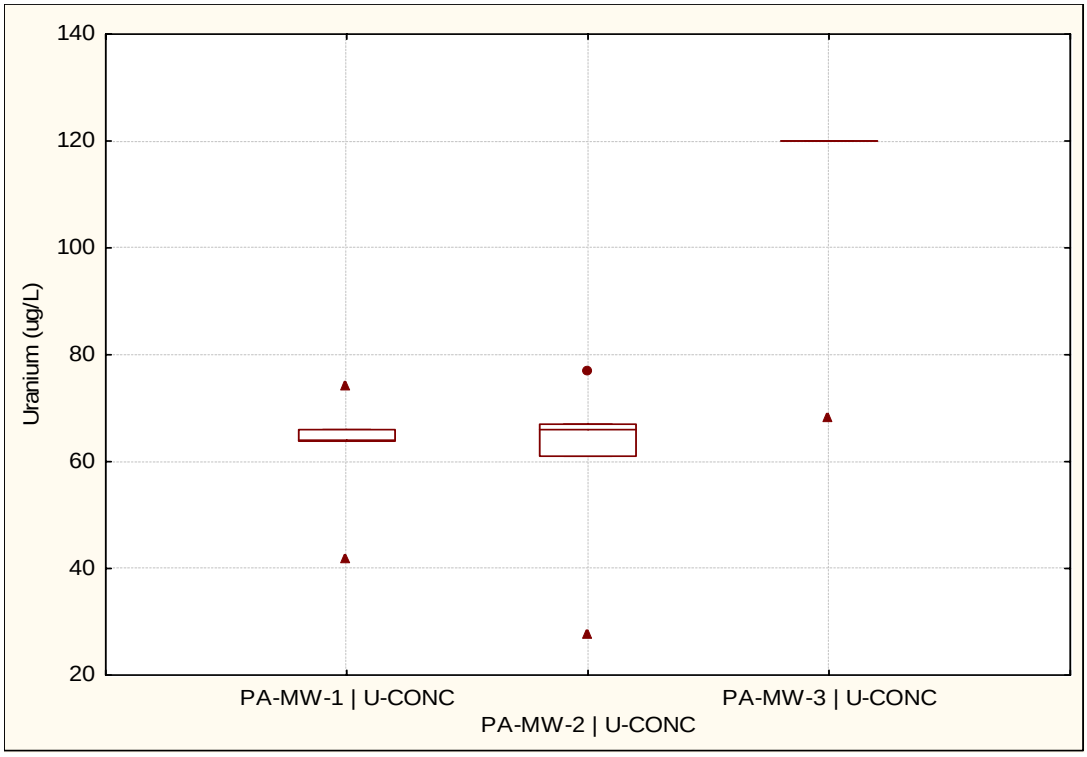
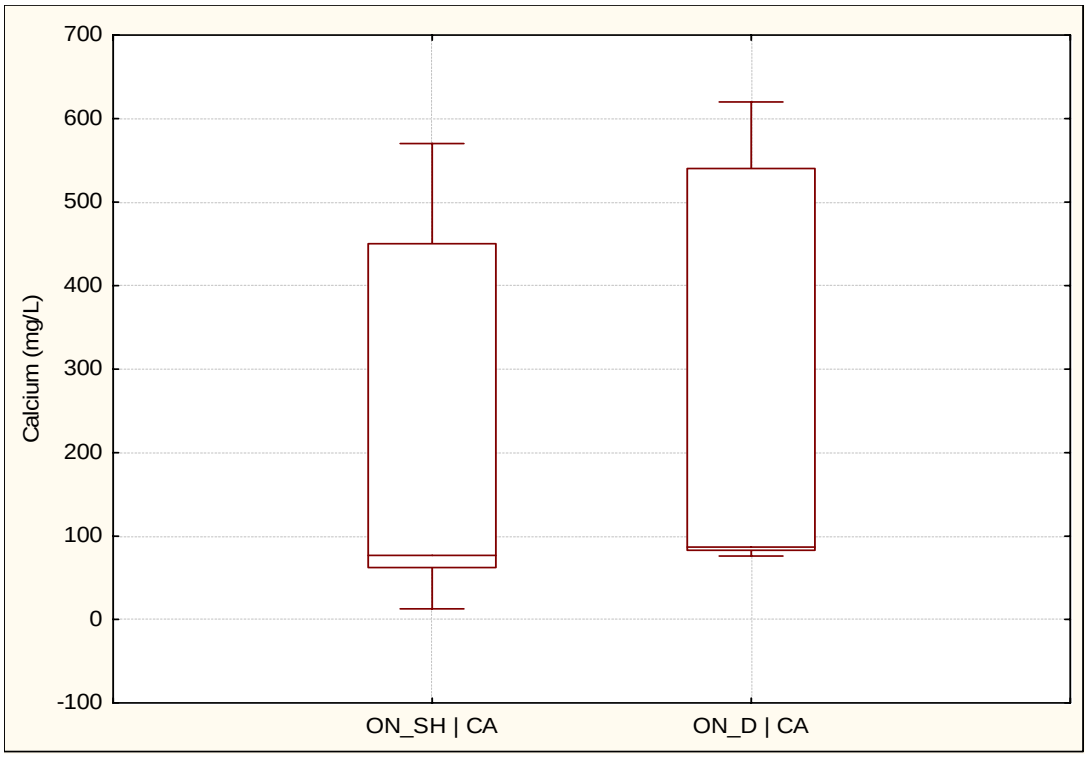
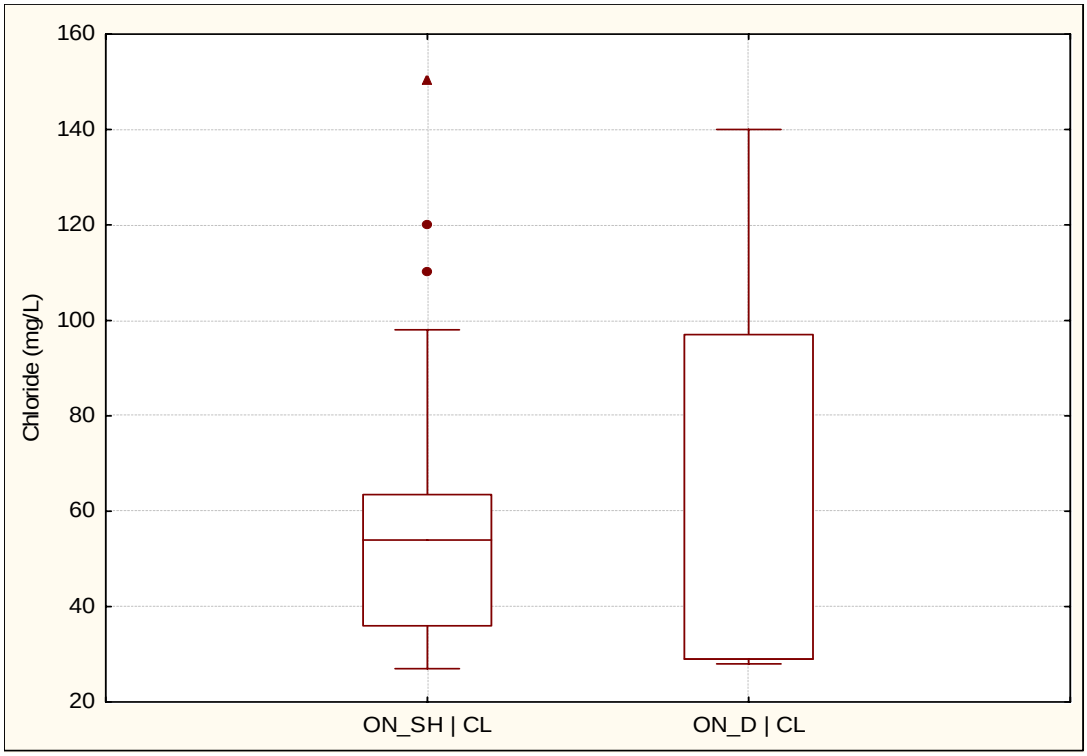


Figure B-4-3. Boxplots for Onsite Wells by Depth

Water Quality Parameters and Major Ions

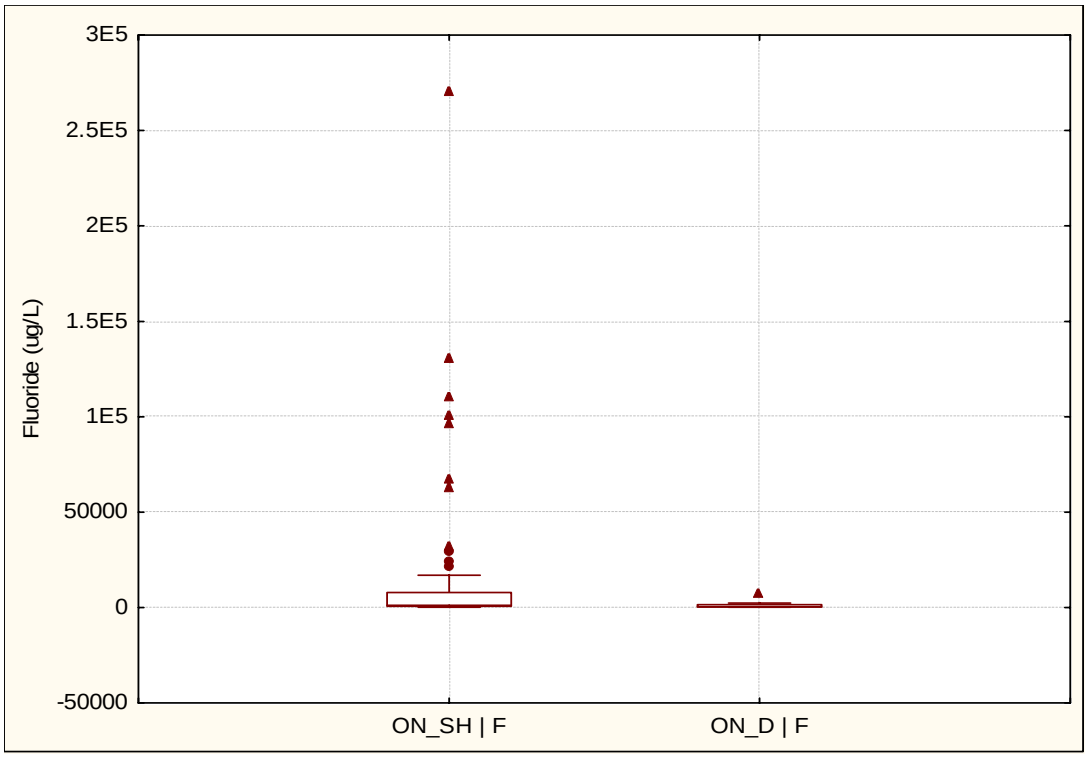




Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Water Quality Parameters and Major Ions



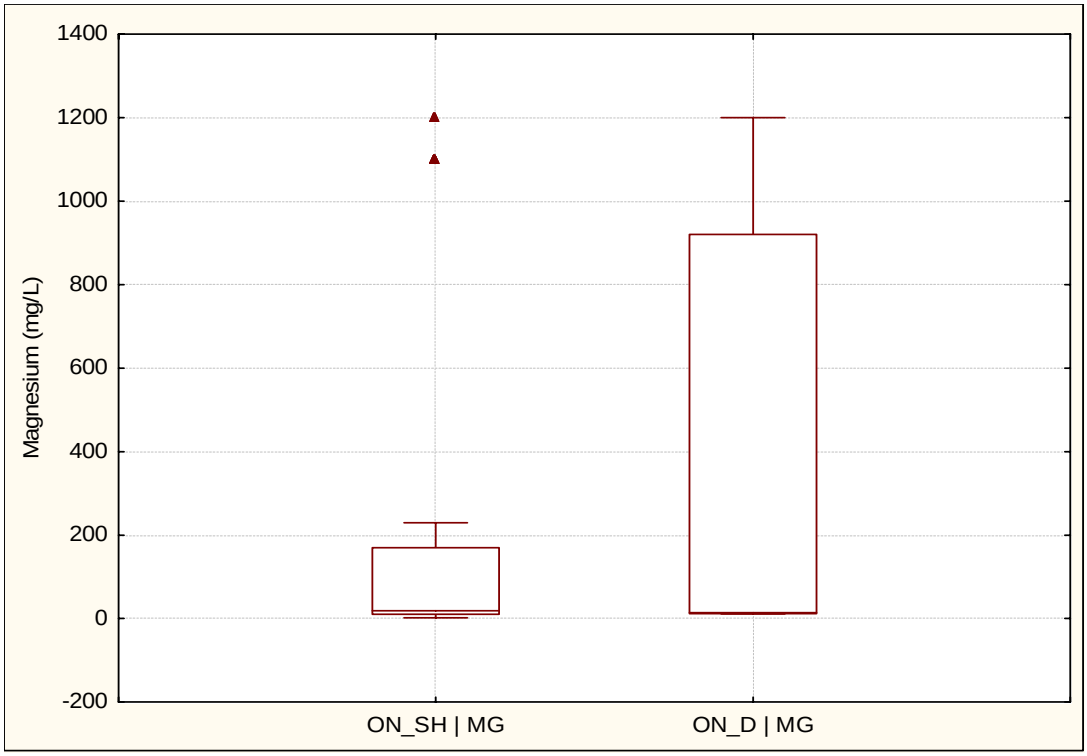


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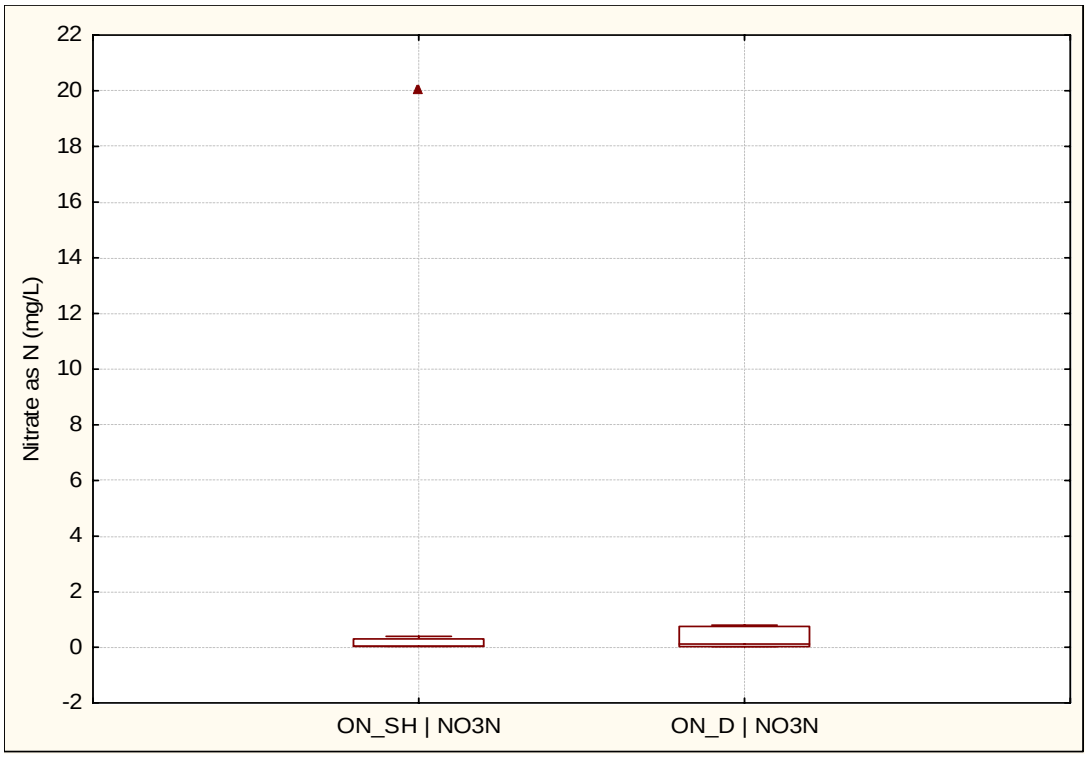
Figure B-4-3. Boxplots for Onsite Wells by Depth

Water Quality Parameters and Major Ions



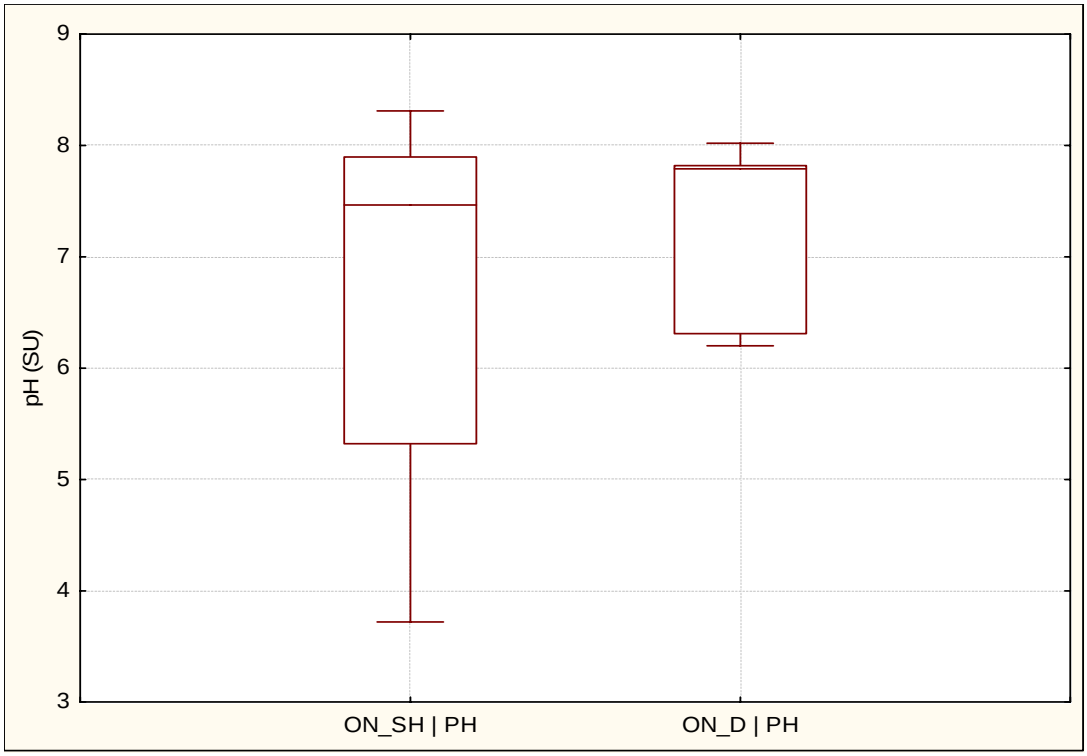


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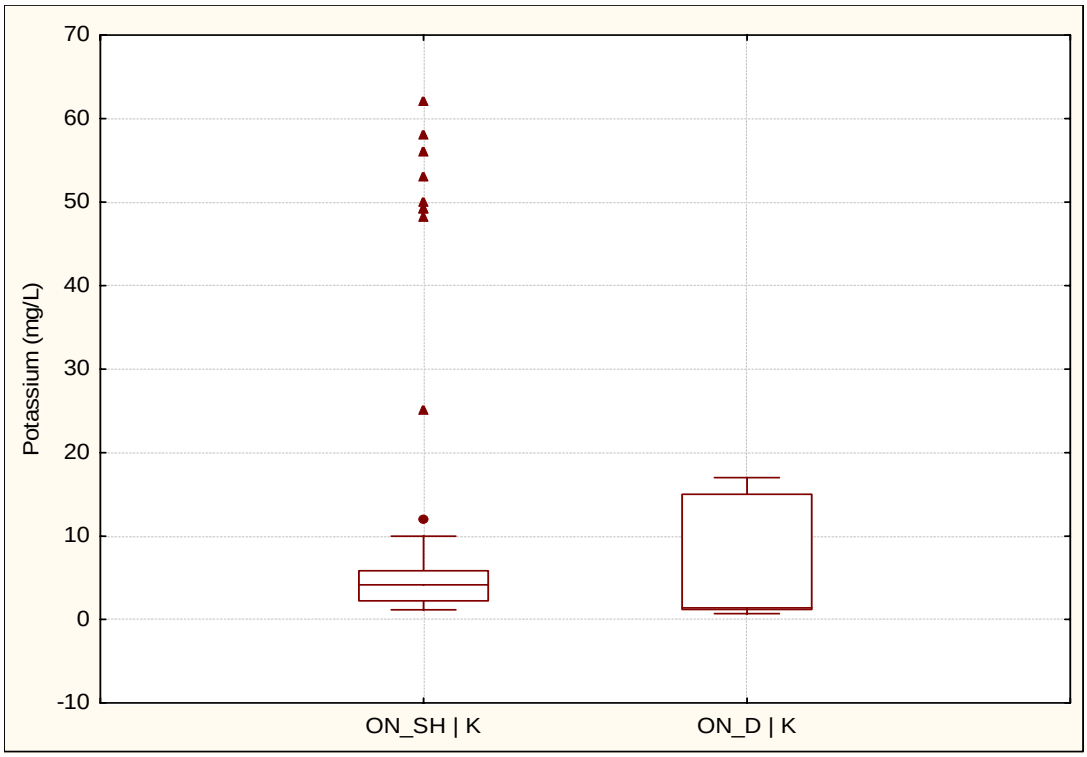
Figure B-4-3. Boxplots for Onsite Wells by Depth

Water Quality Parameters and Major Ions



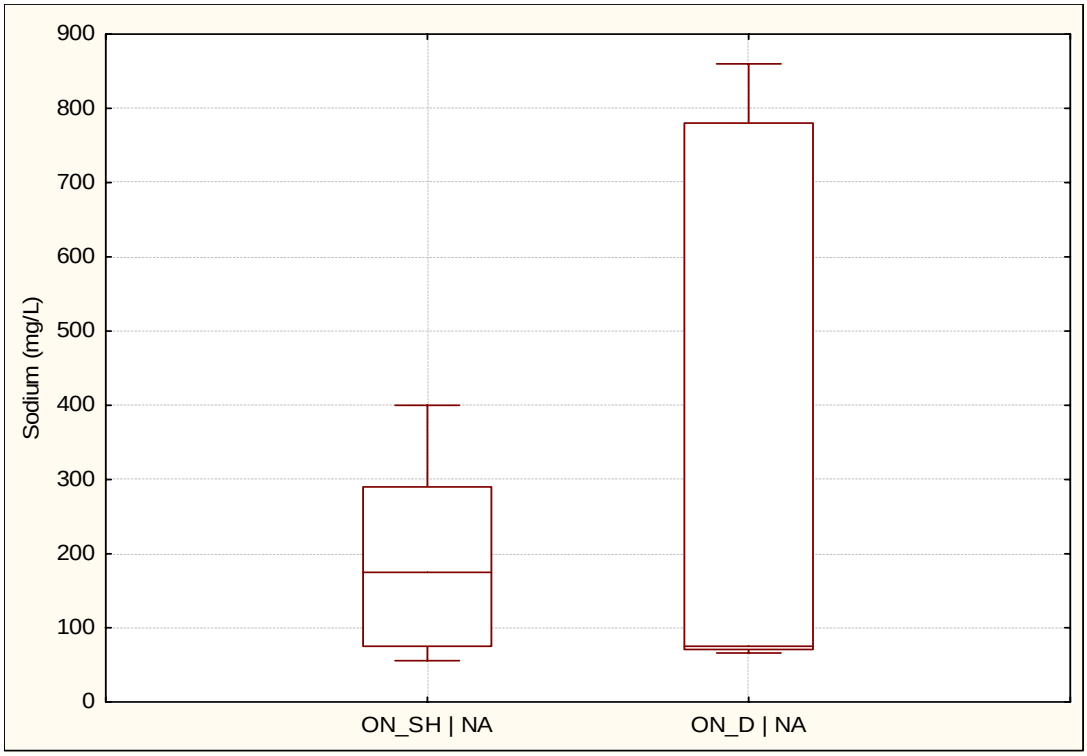


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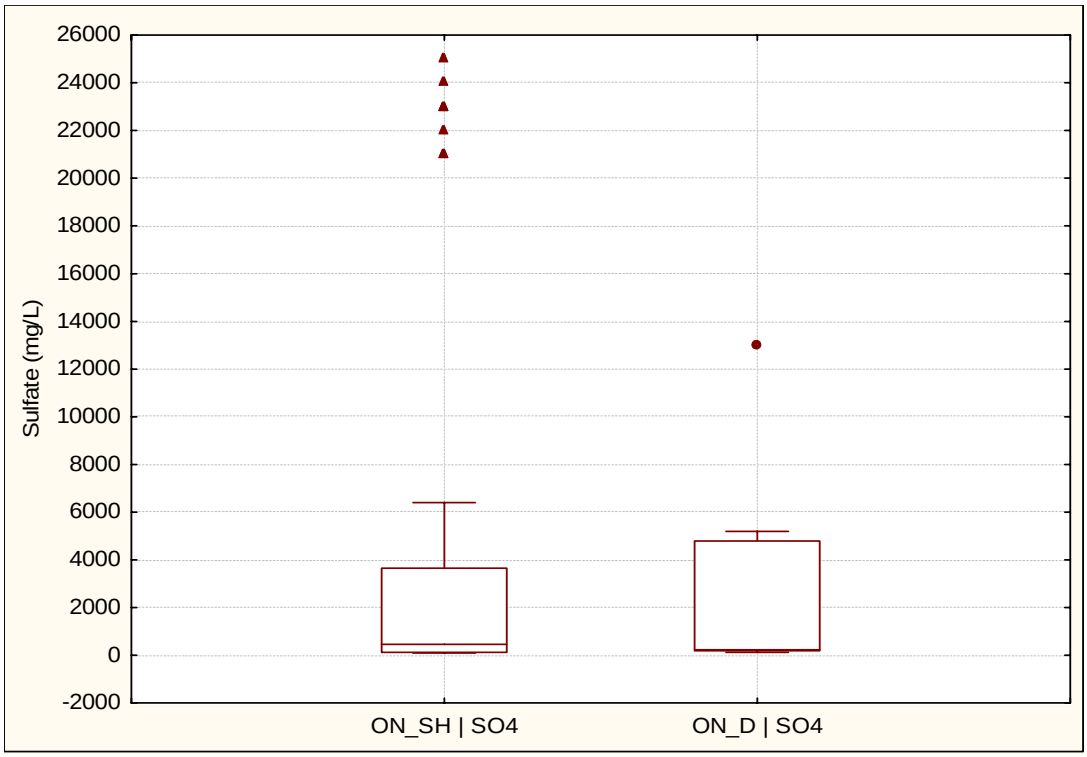
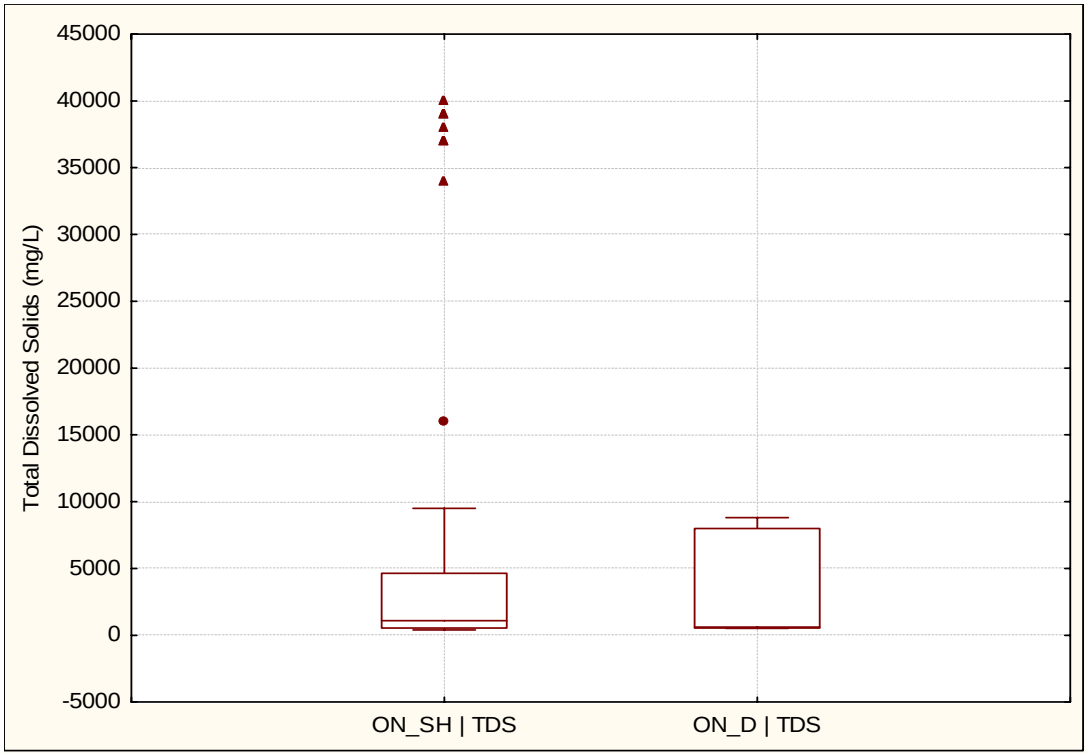
Figure B-4-3. Boxplots for Onsite Wells by Depth

Water Quality Parameters and Major Ions

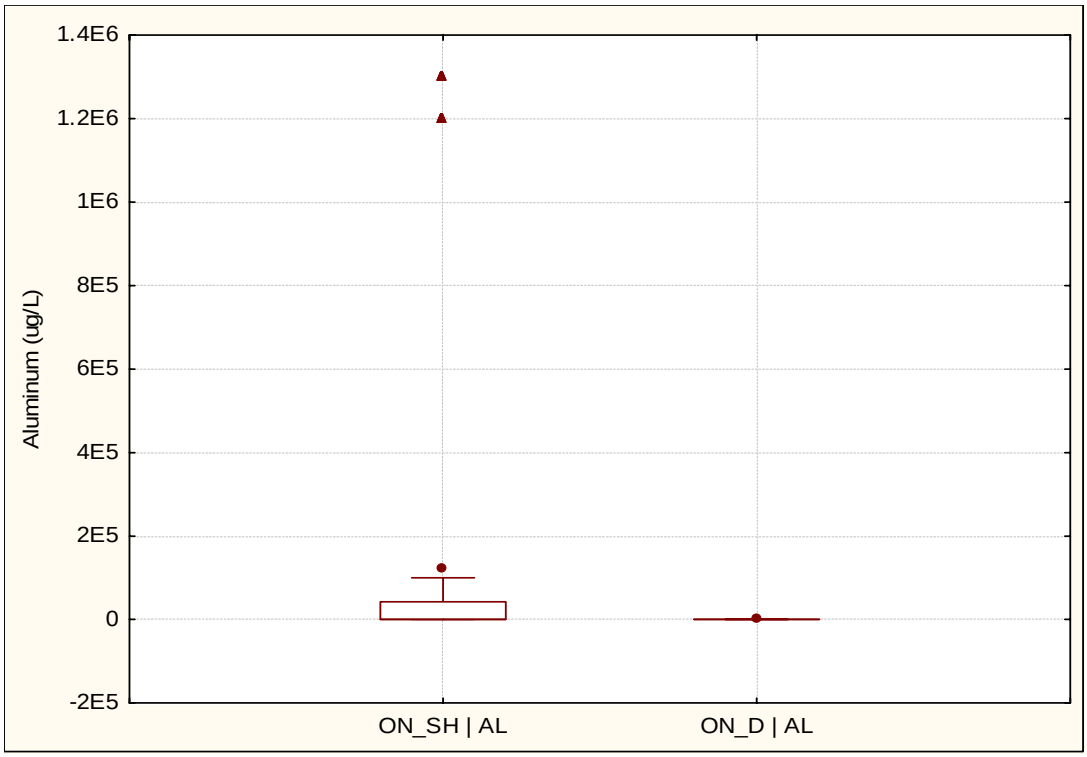


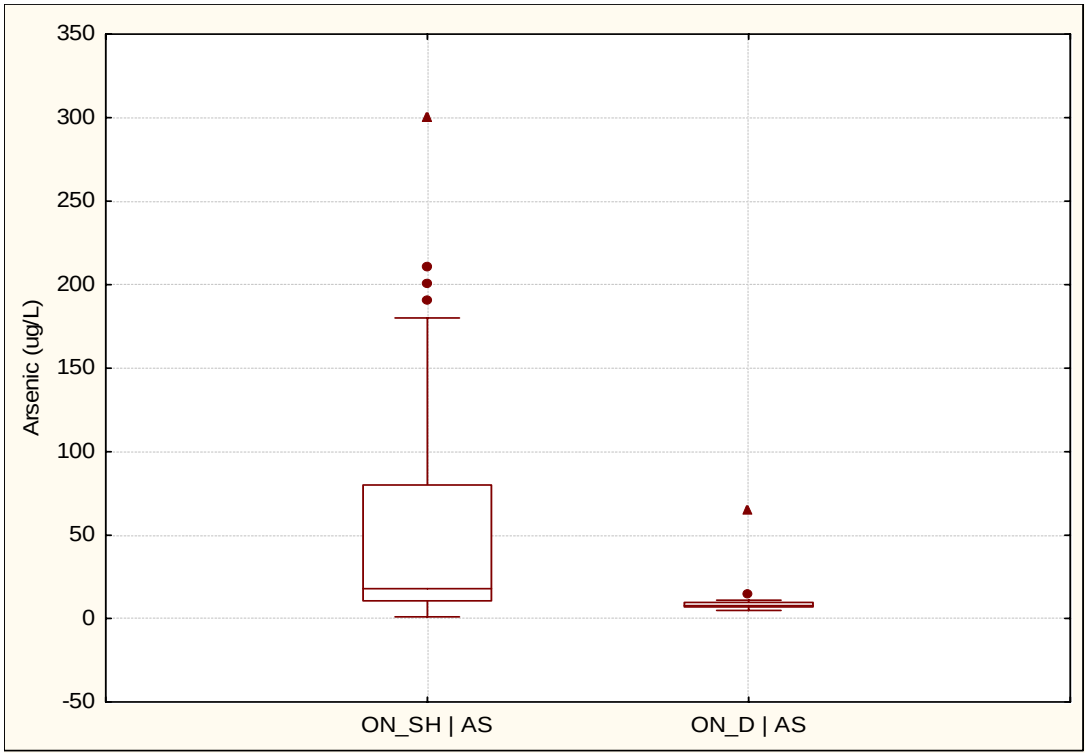


Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Metals

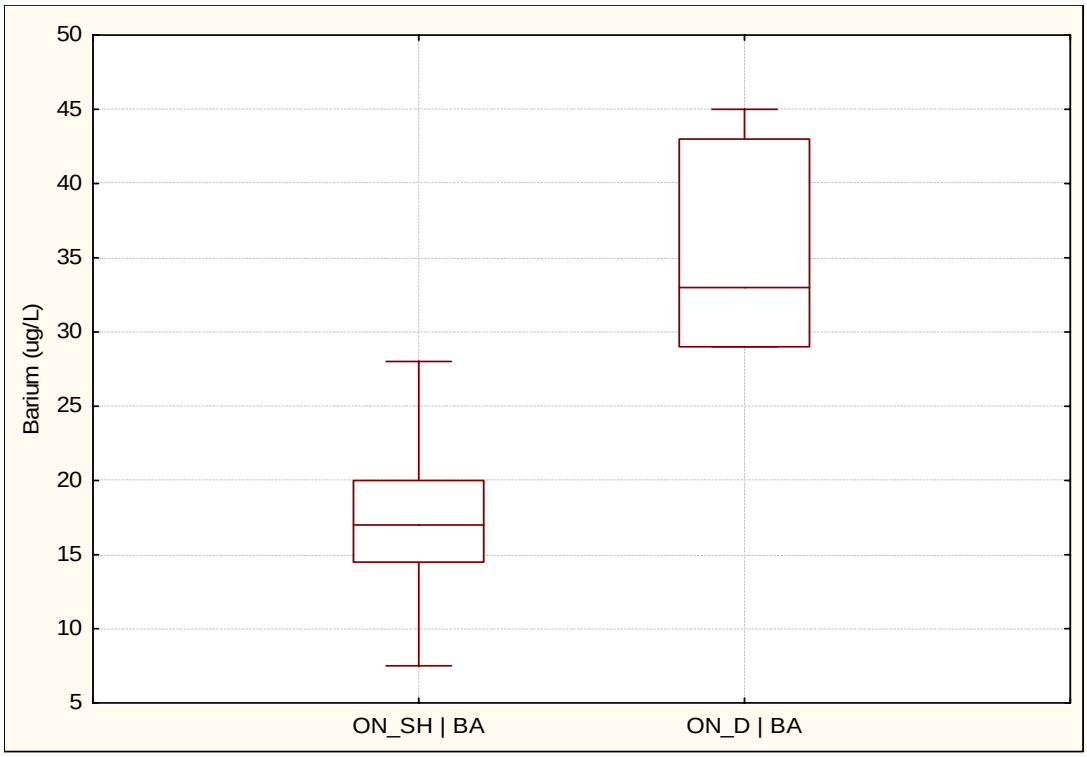


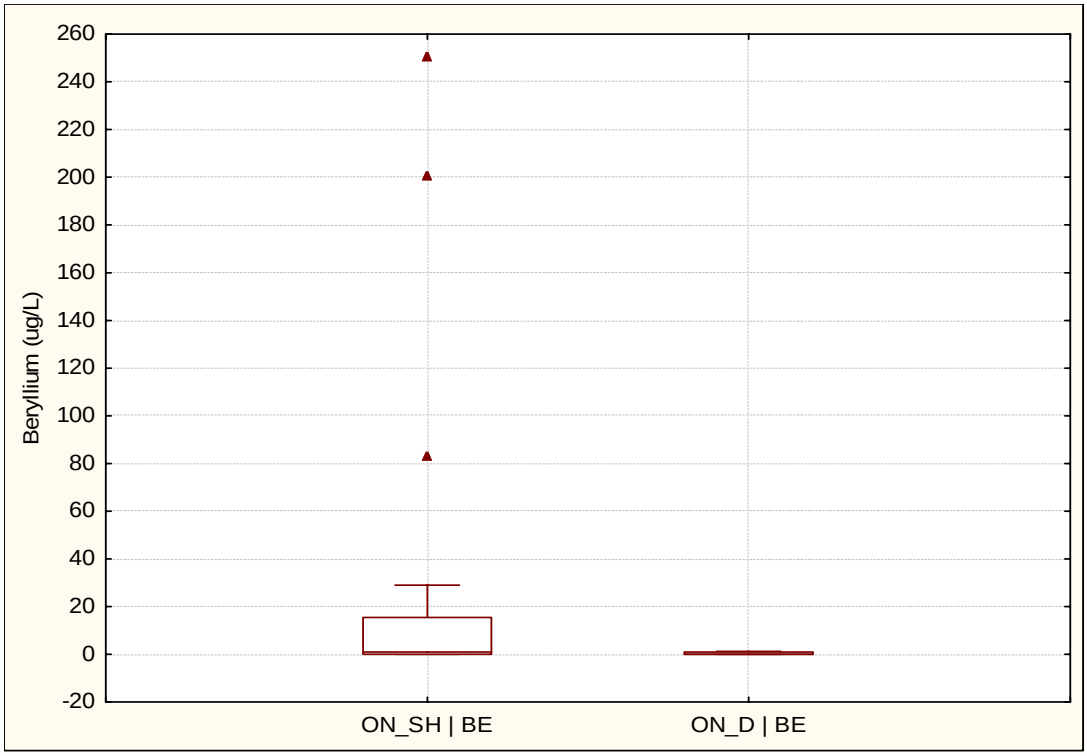


Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Metals

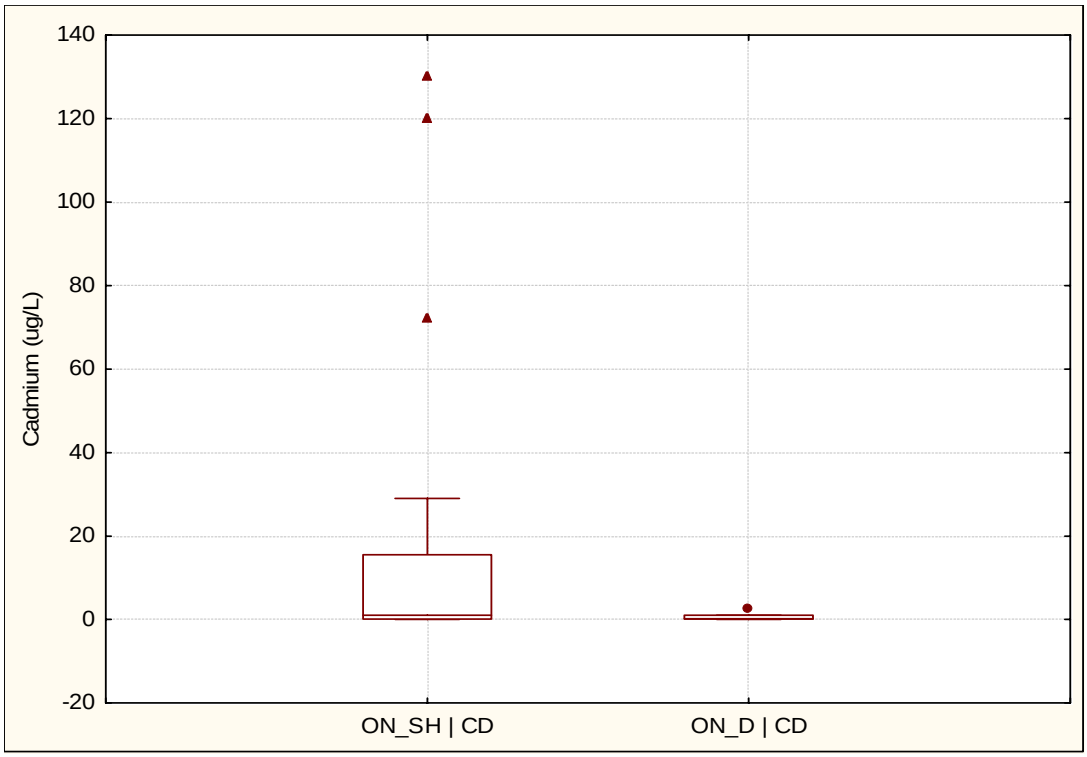


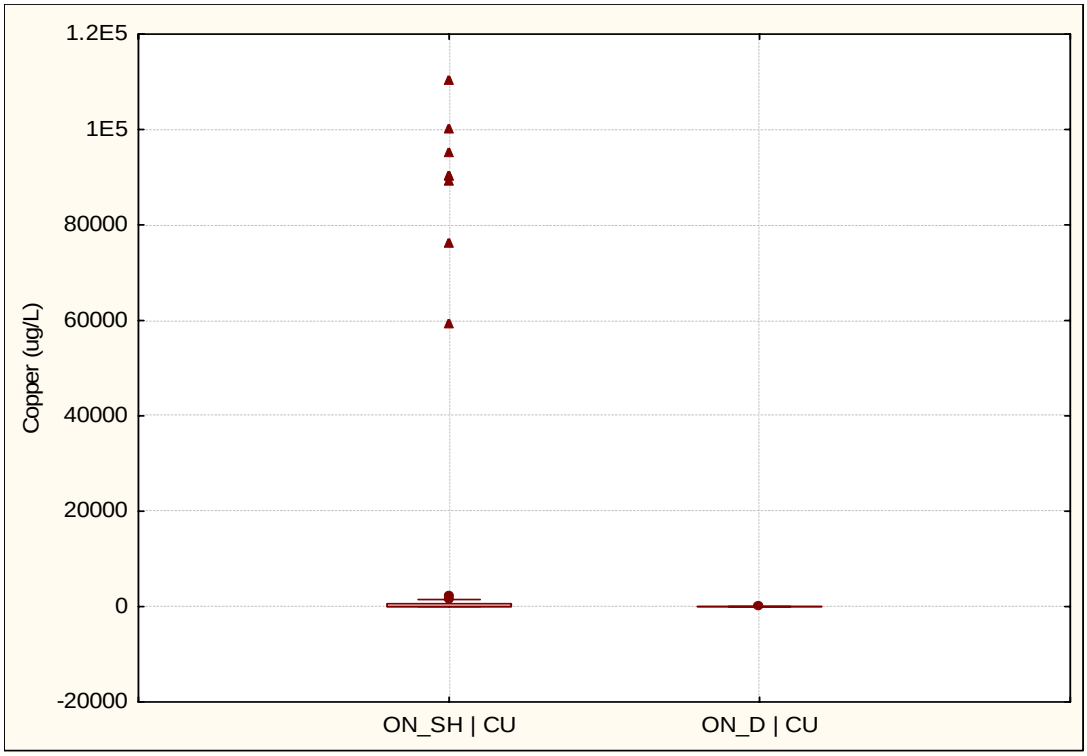


Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Metals

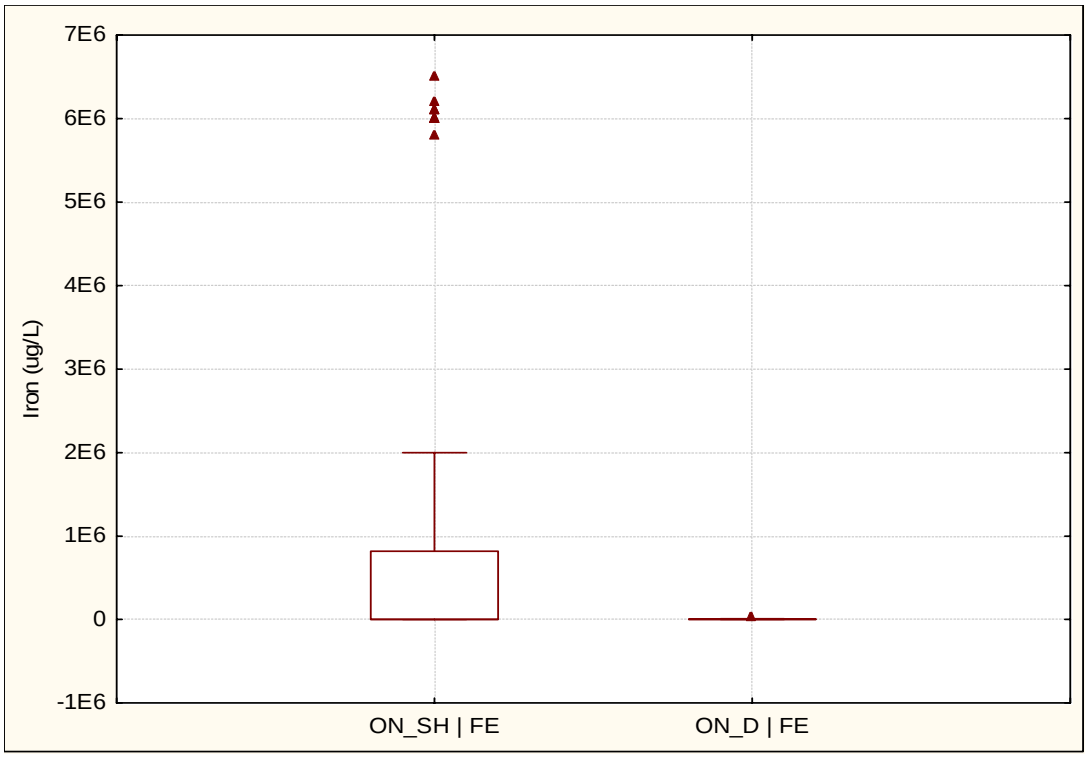


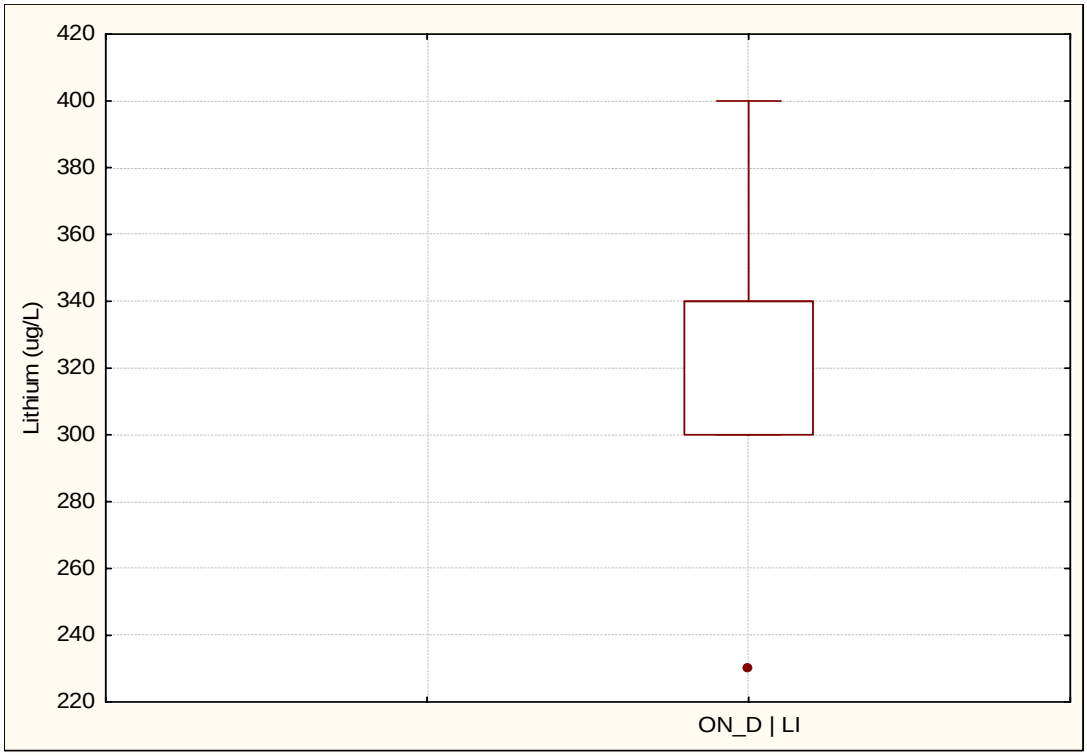


Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Metals

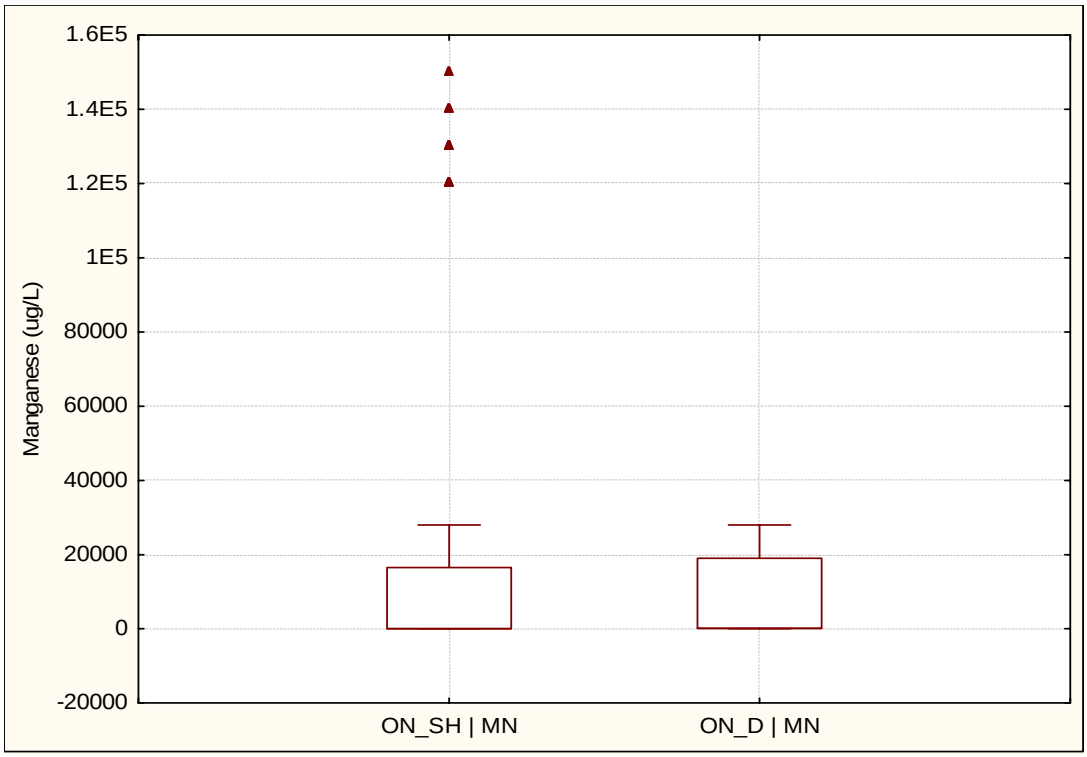




Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Metals



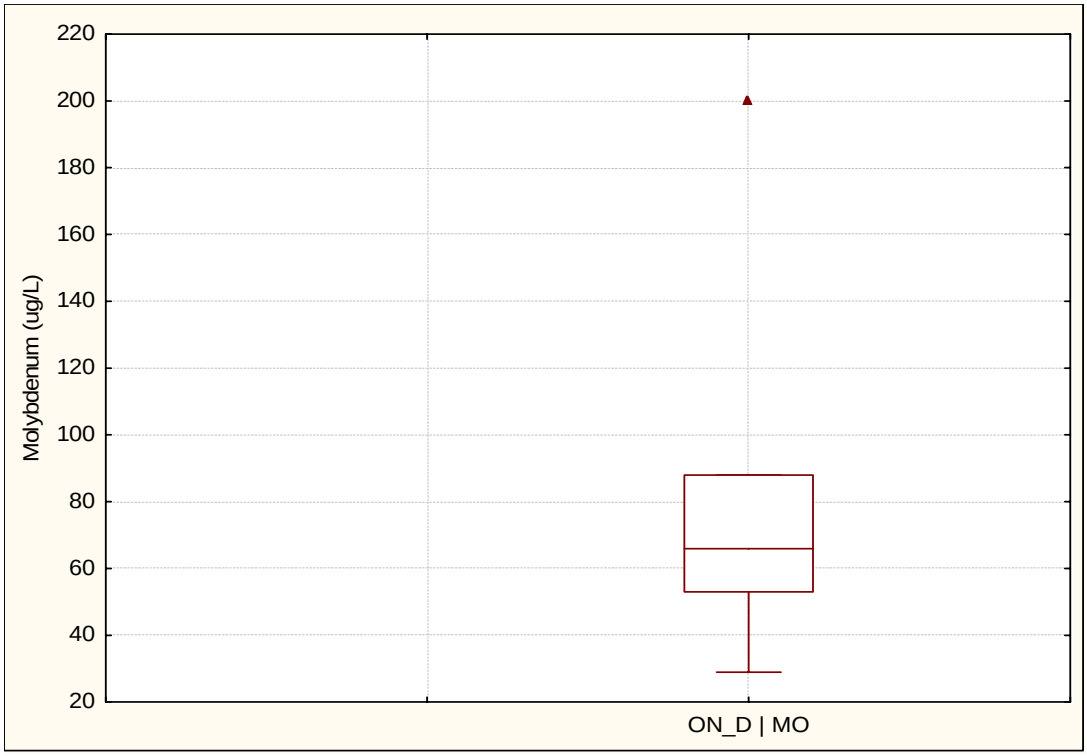


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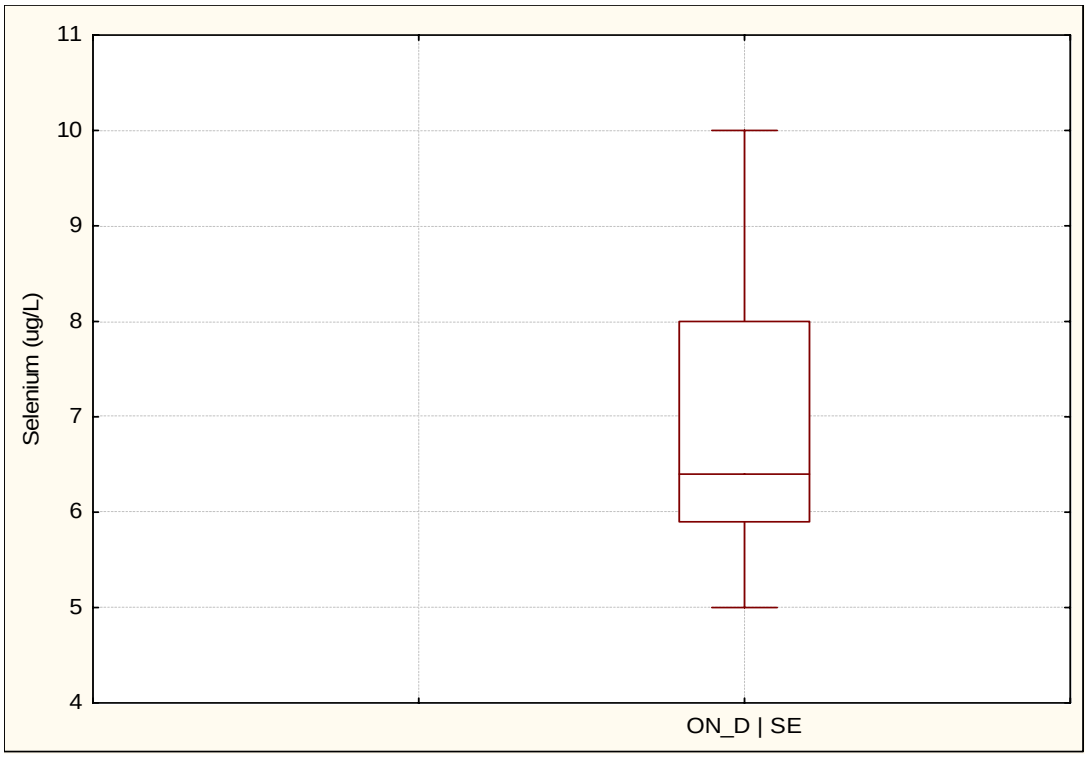
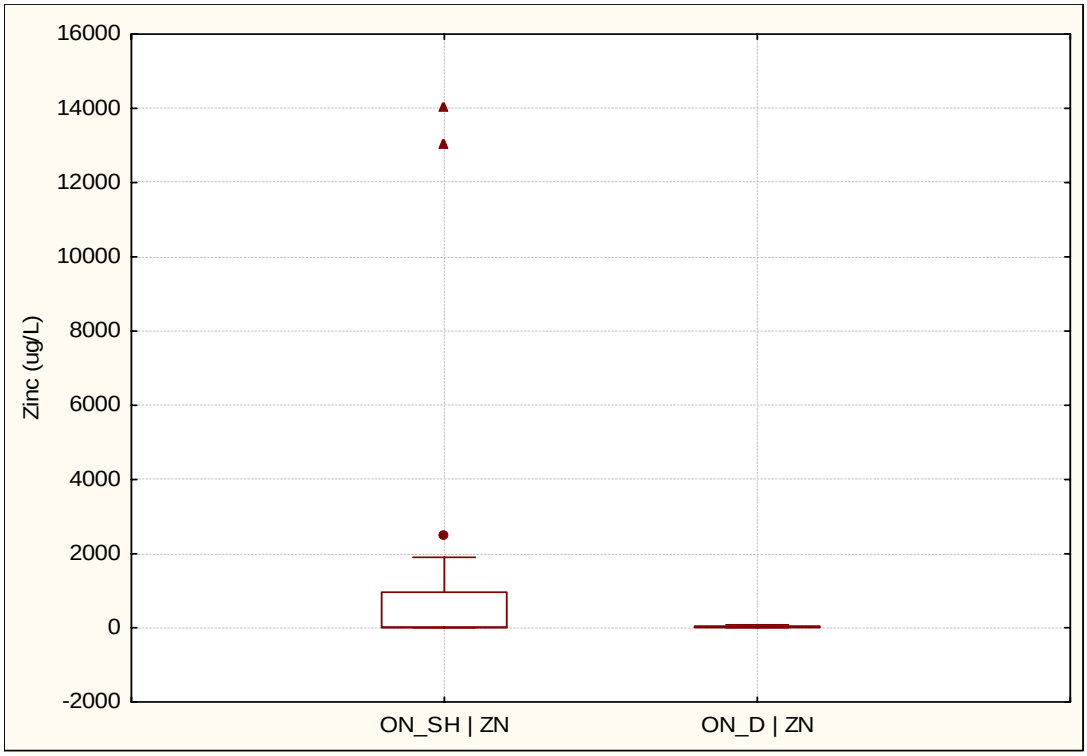
Figure B-4-3. Boxplots for Onsite Wells by Depth

Metals

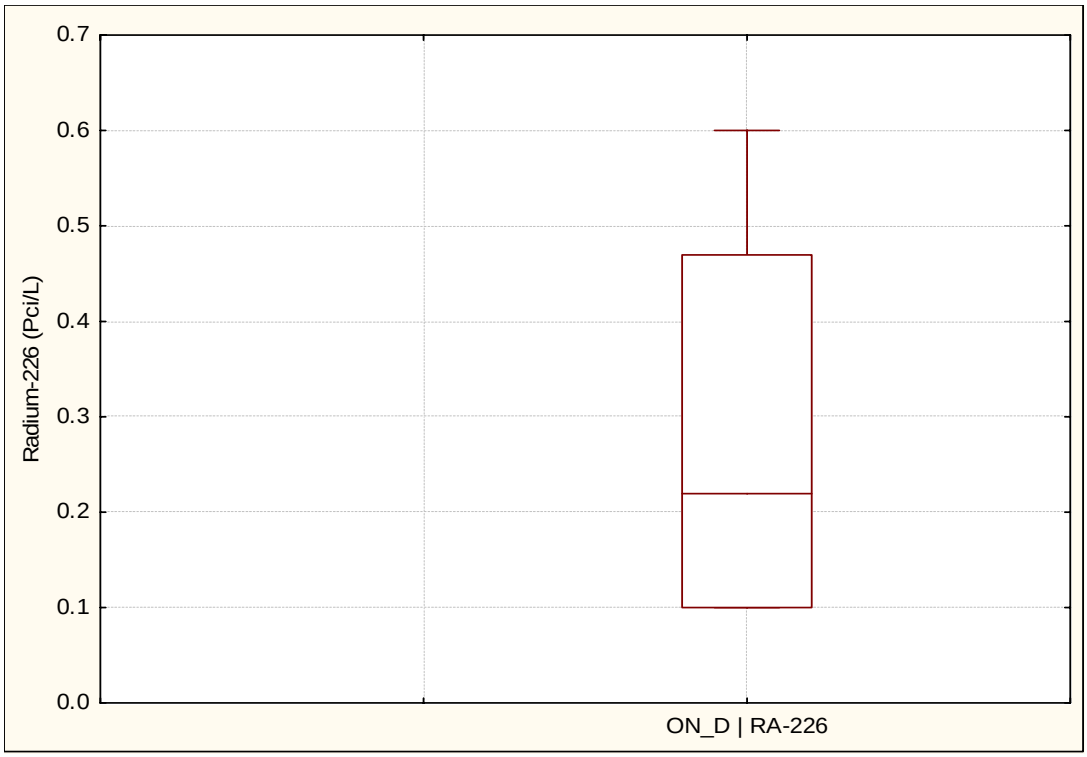




Abbreviations: SH - Shallow DP - Deep

Figure B-4-3. Boxplots for Onsite Wells by Depth

Radiochemicals



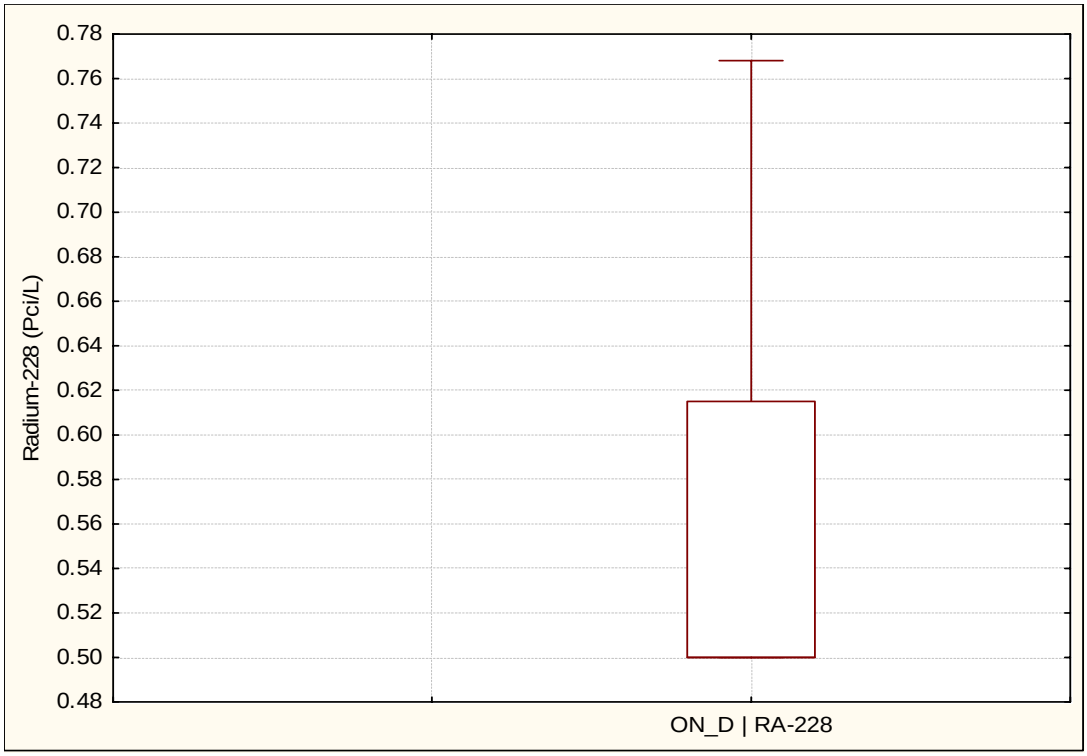


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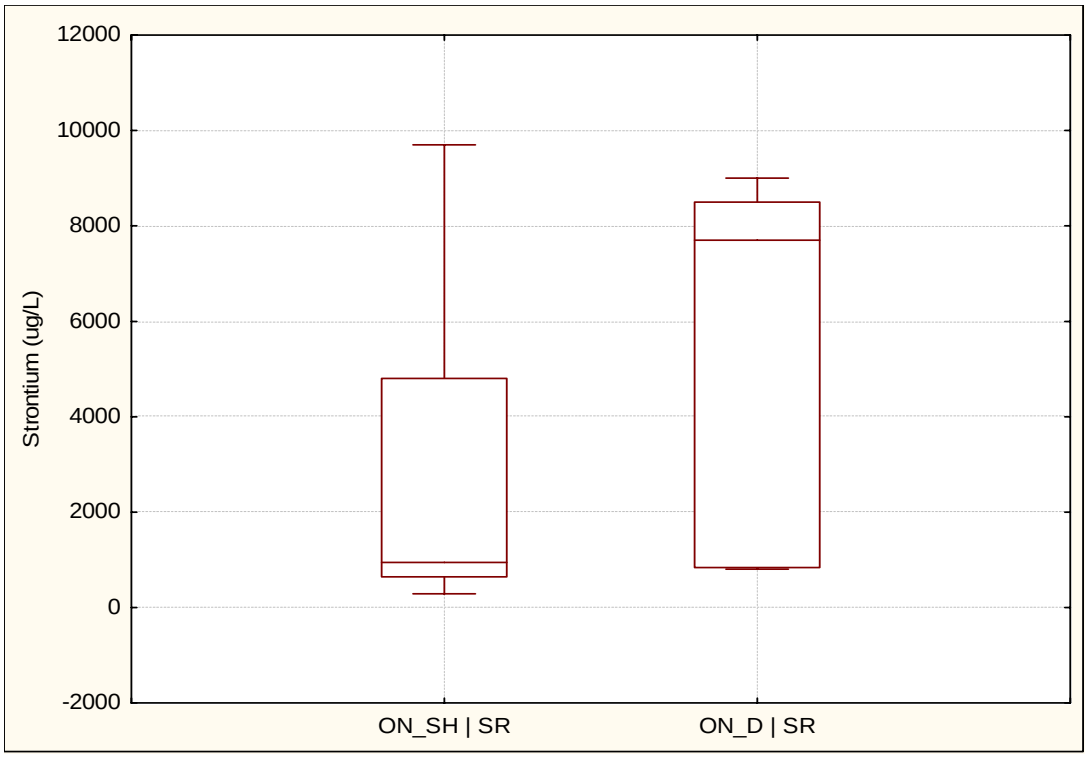
Figure B-4-3. Boxplots for Onsite Wells by Depth

Radiochemicals



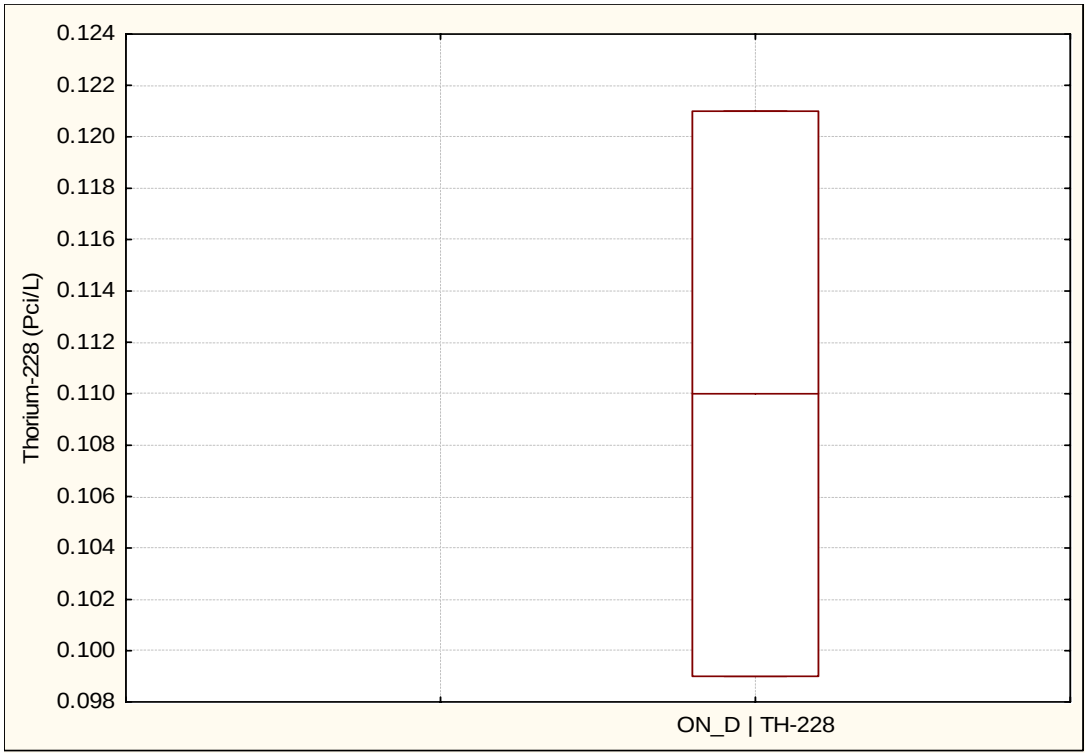


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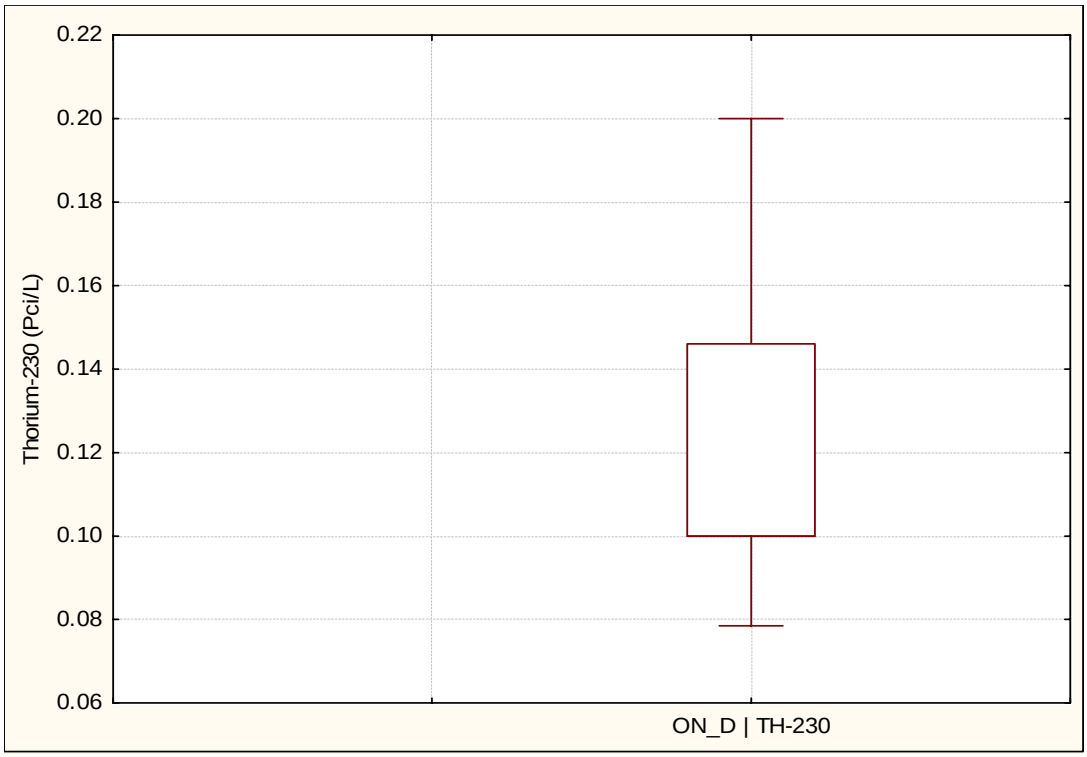
Figure B-4-3. Boxplots for Onsite Wells by Depth

Radiochemicals



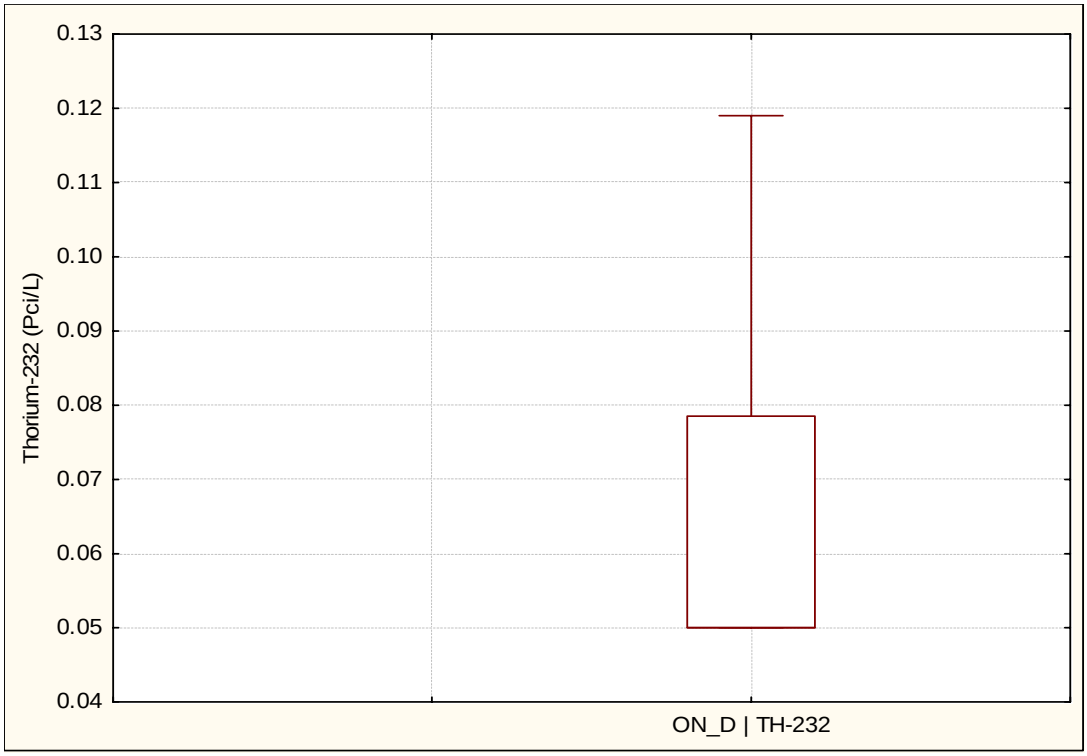


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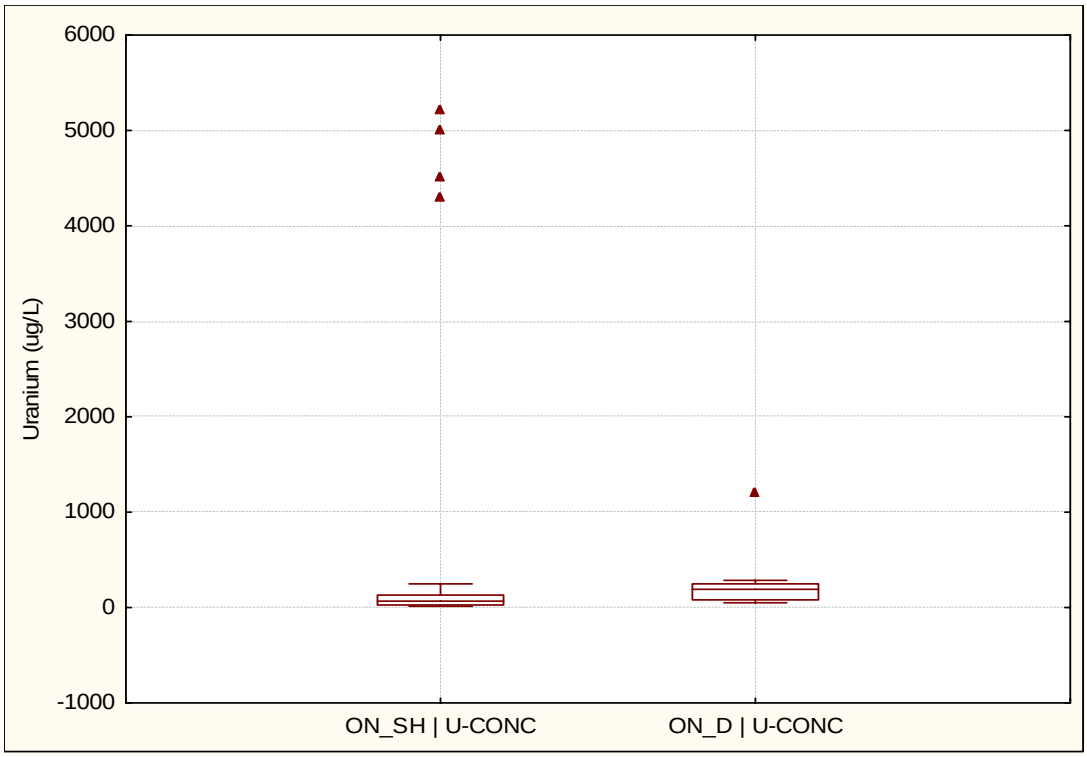
Figure B-4-3. Boxplots for Onsite Wells by Depth

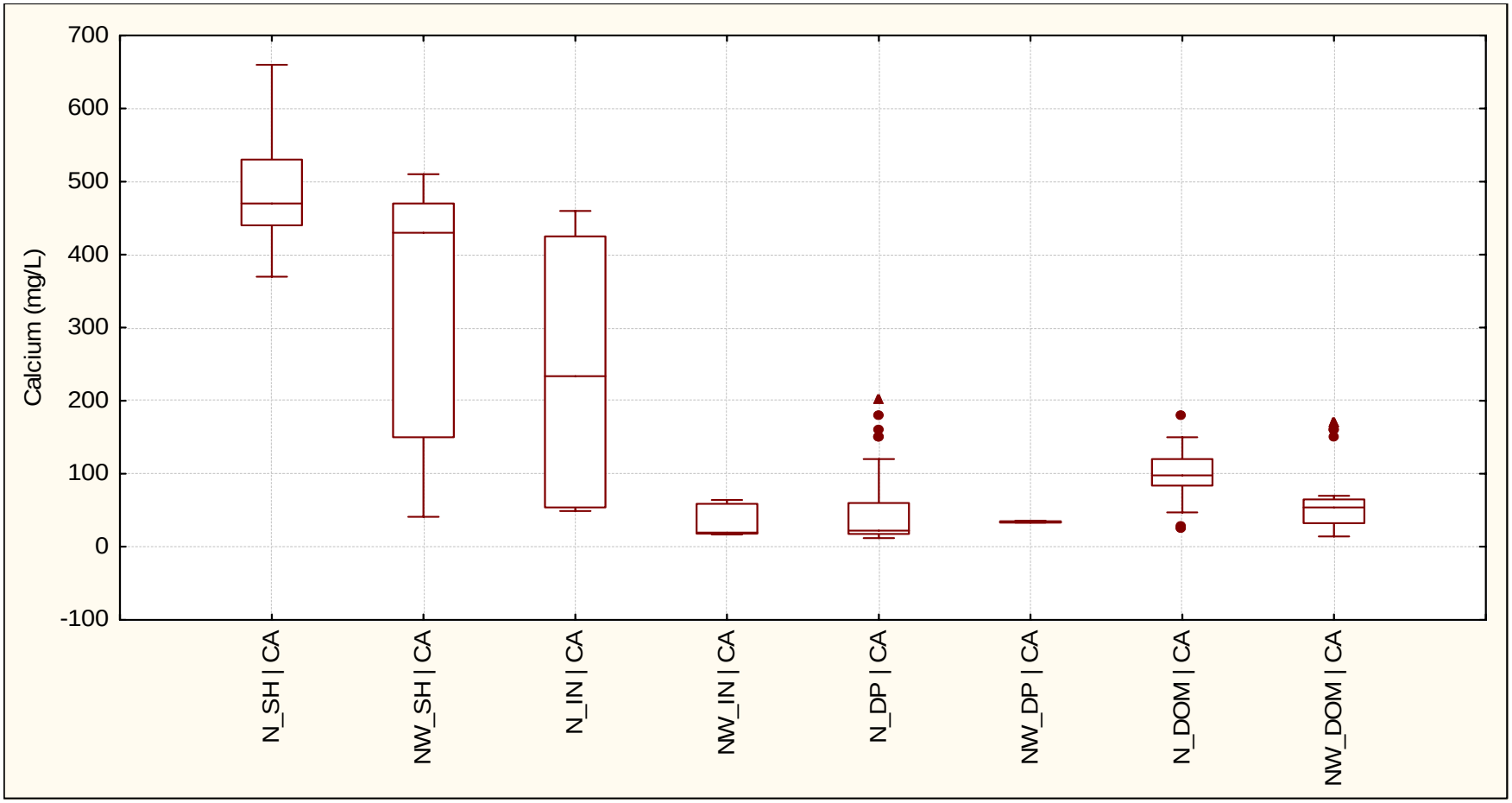
Radiochemicals



Abbreviations: SH - Shallow DP - Deep

Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

Water Quality Parameters and Major Ions



Abbreviations:

N - North of Evaporation Ponds
NW - Northwest of Evaporation Ponds

SH - Shallow
IN - Intermediate
DP - Deep

DOM - Domestic

Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

Water Quality Parameters and Major Ions

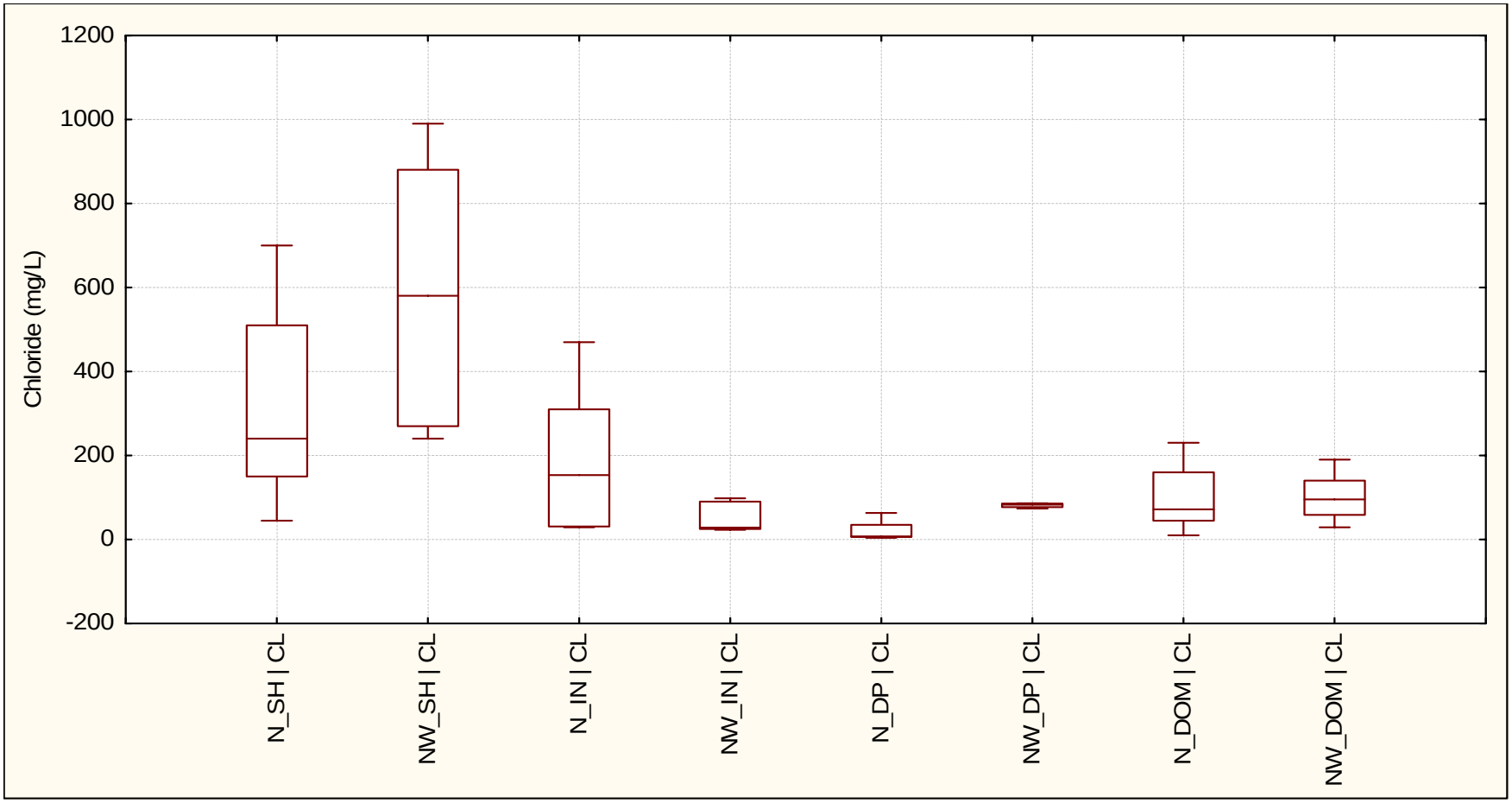


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Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

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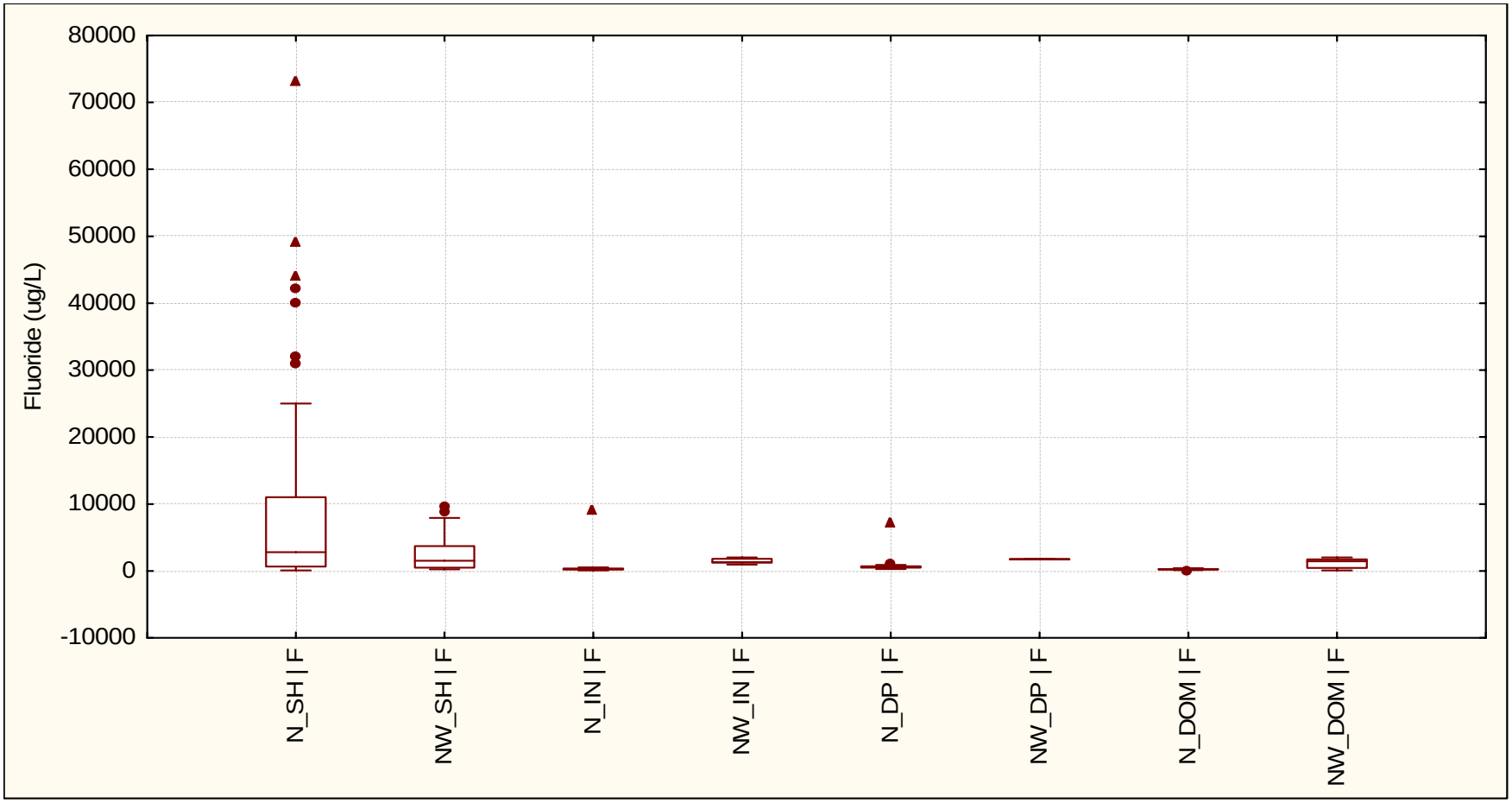

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Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

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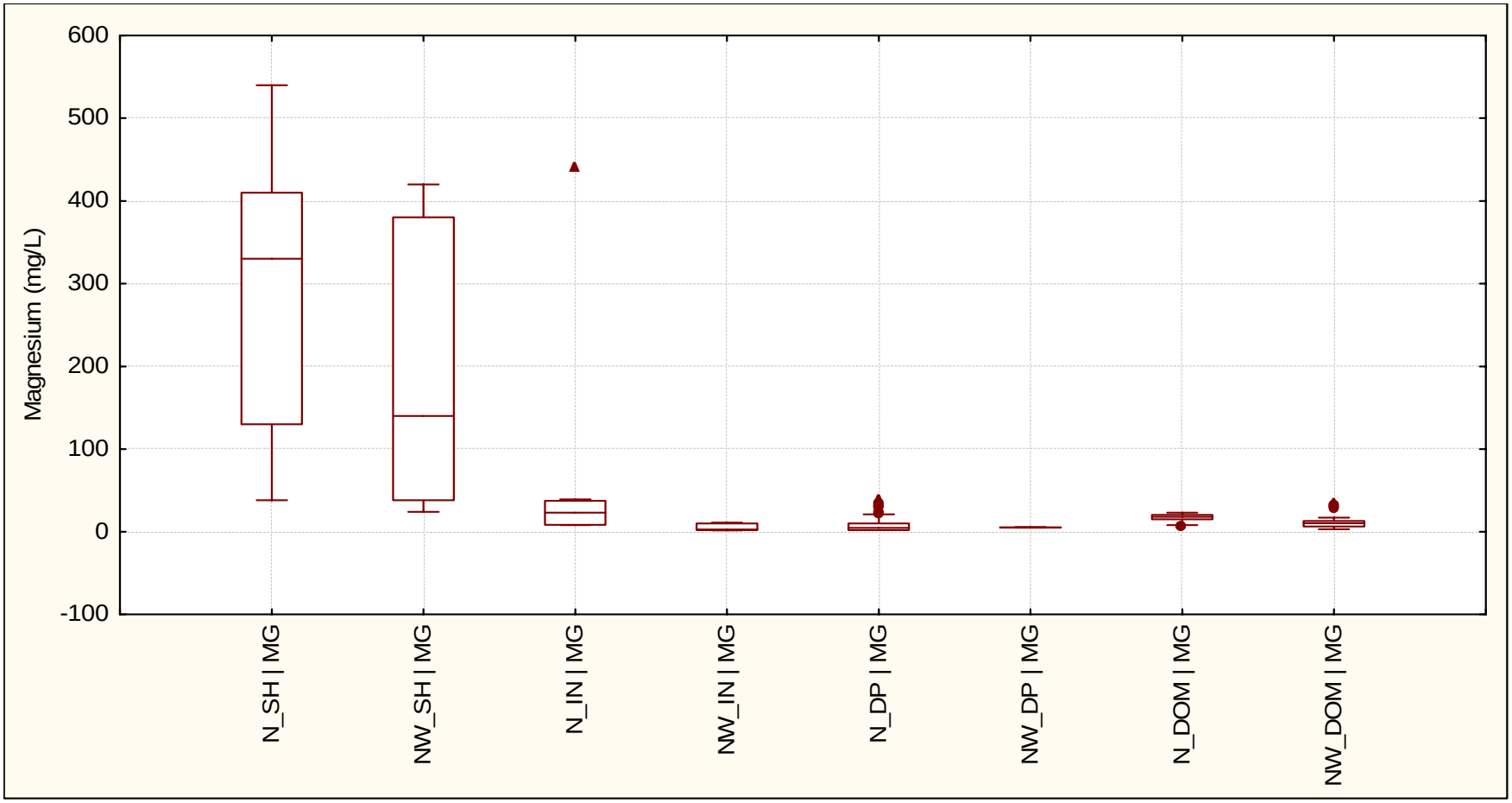

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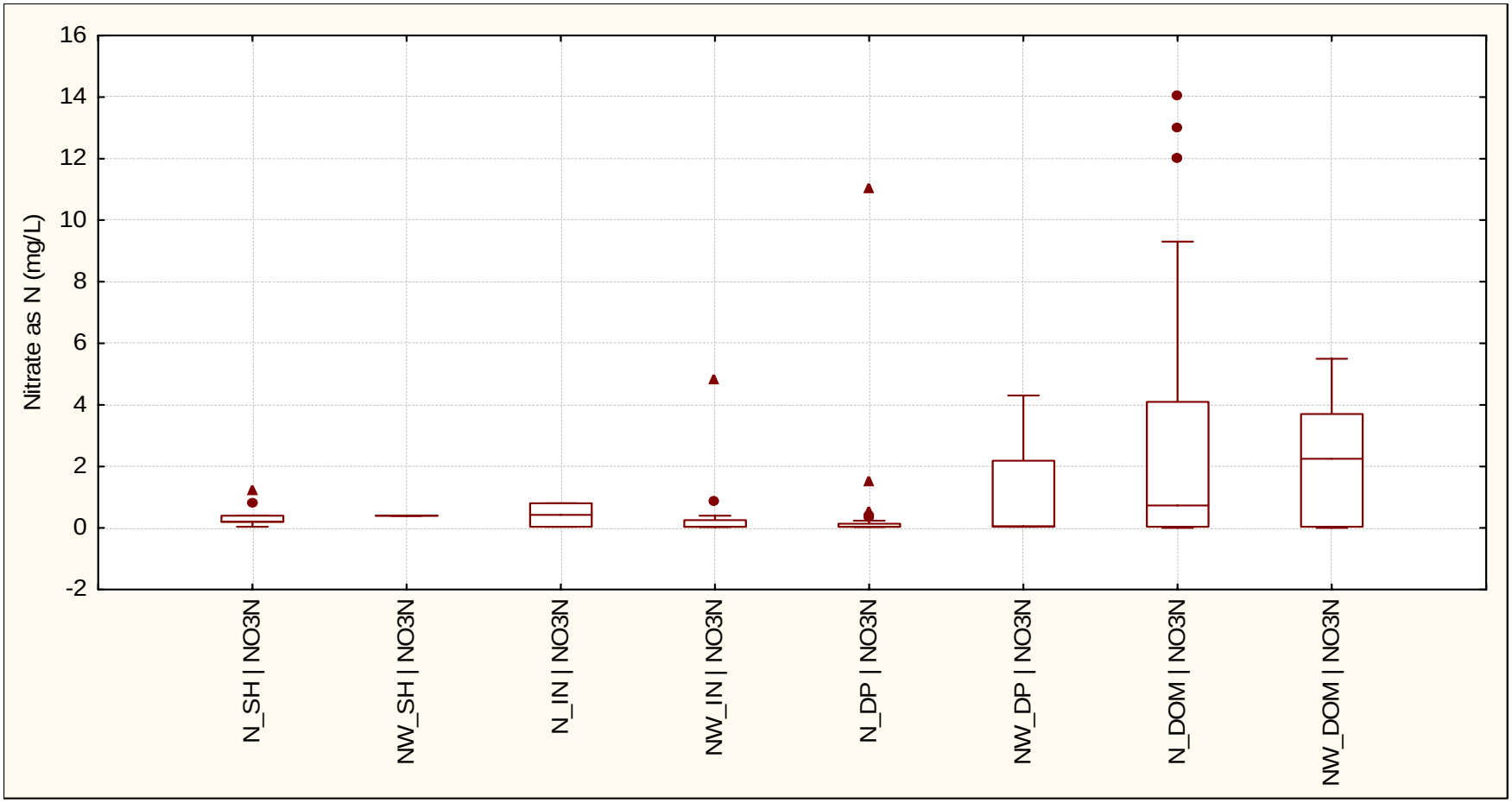

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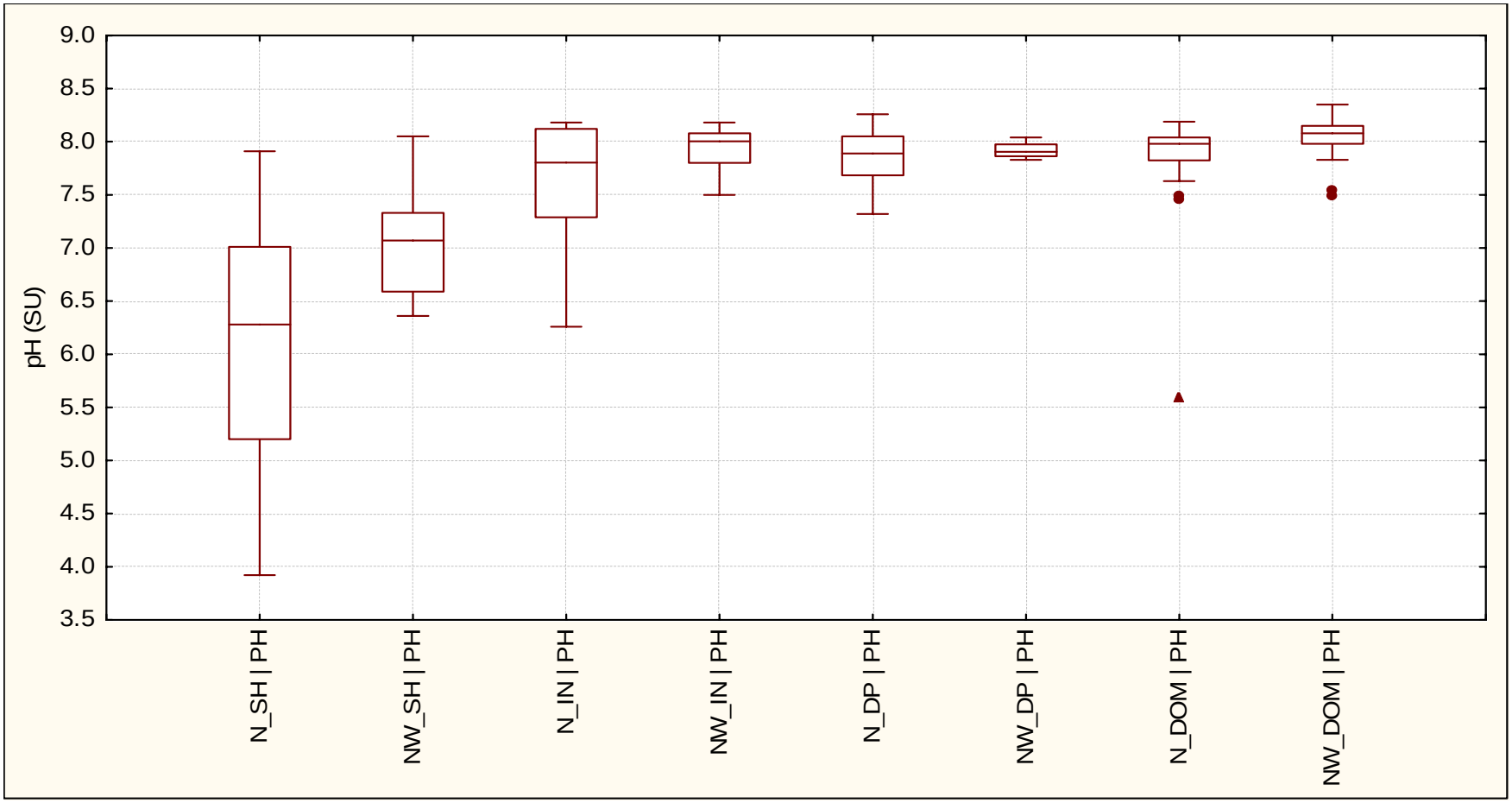

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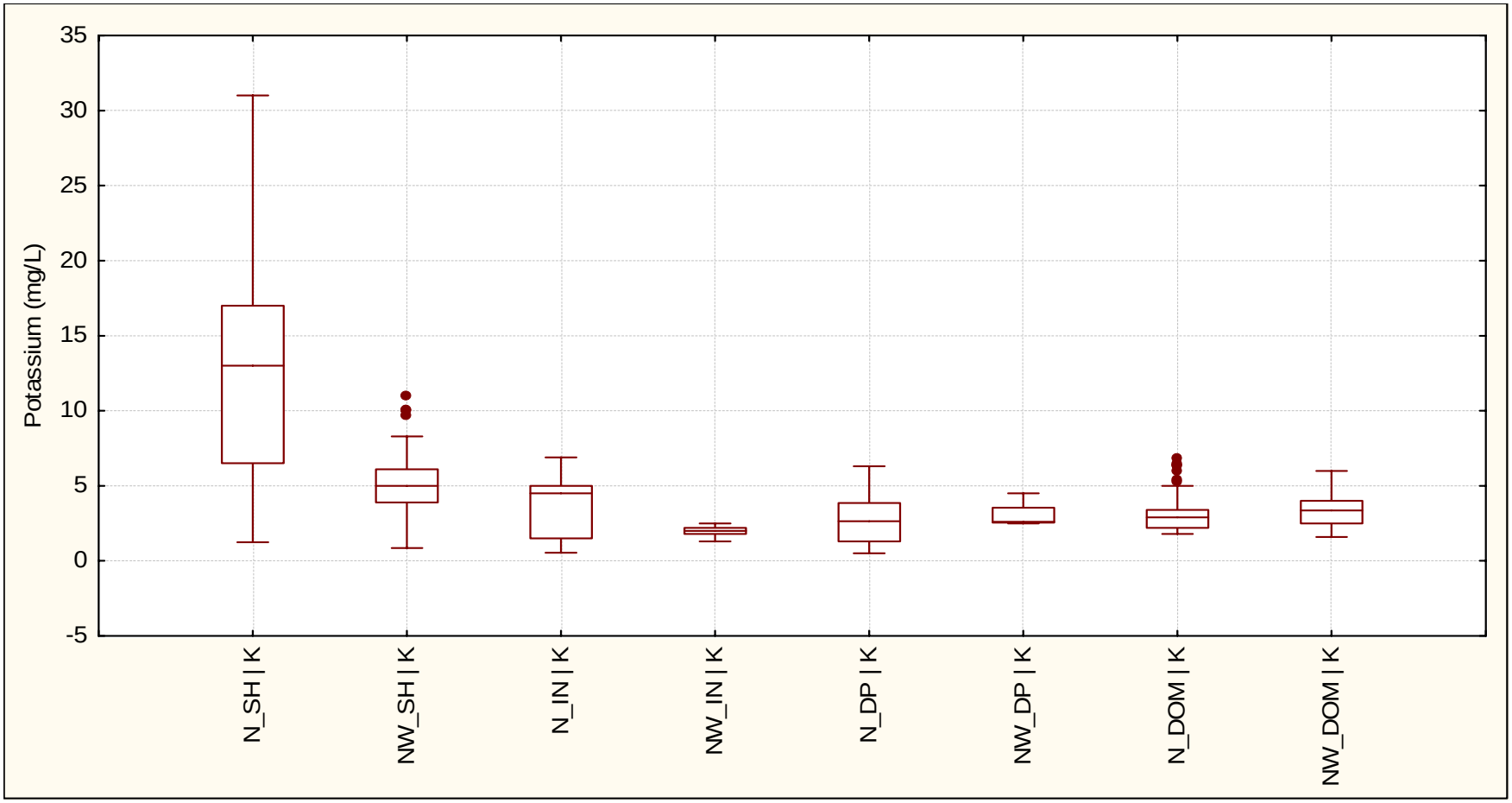

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Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

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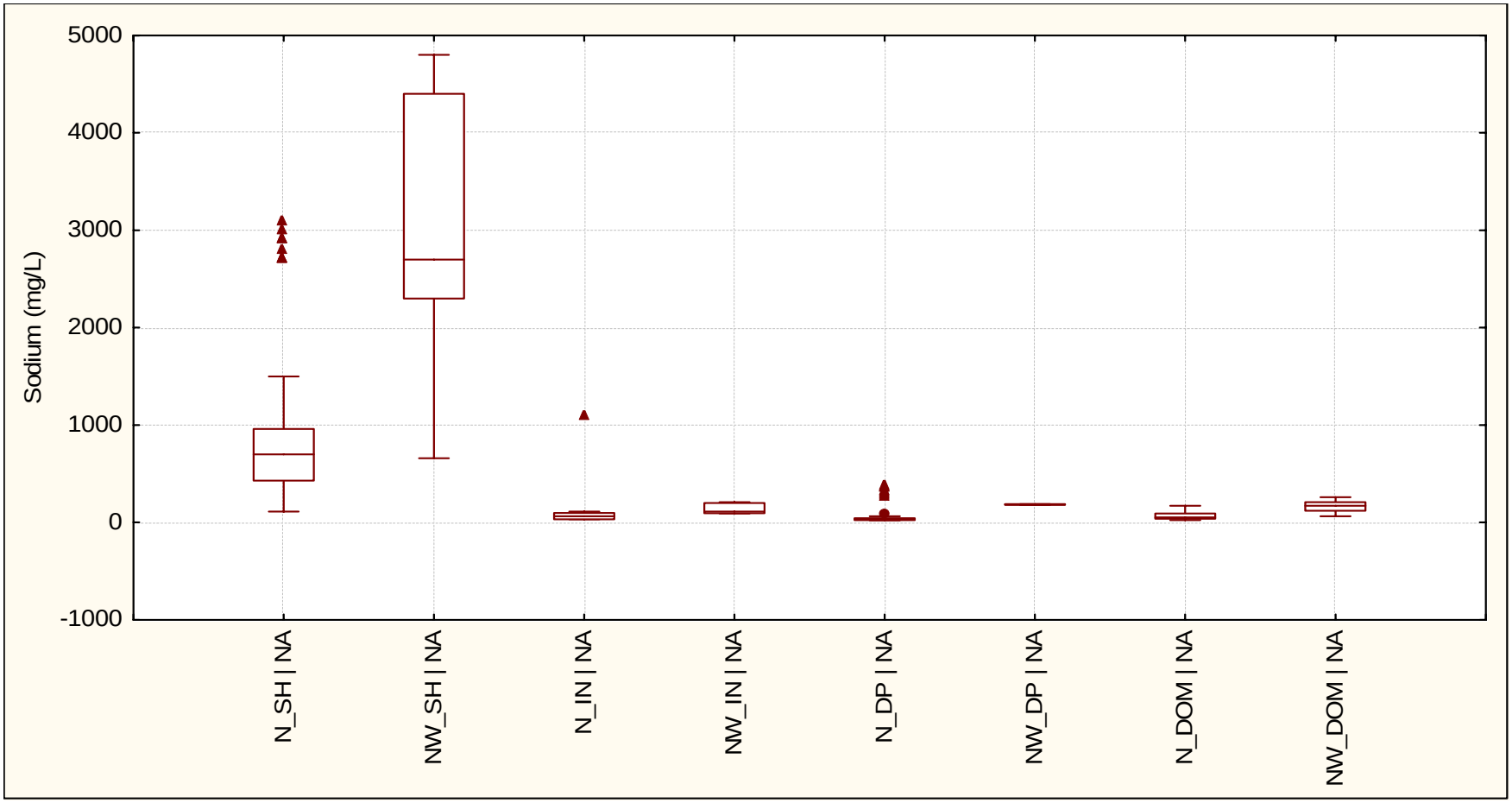

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Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

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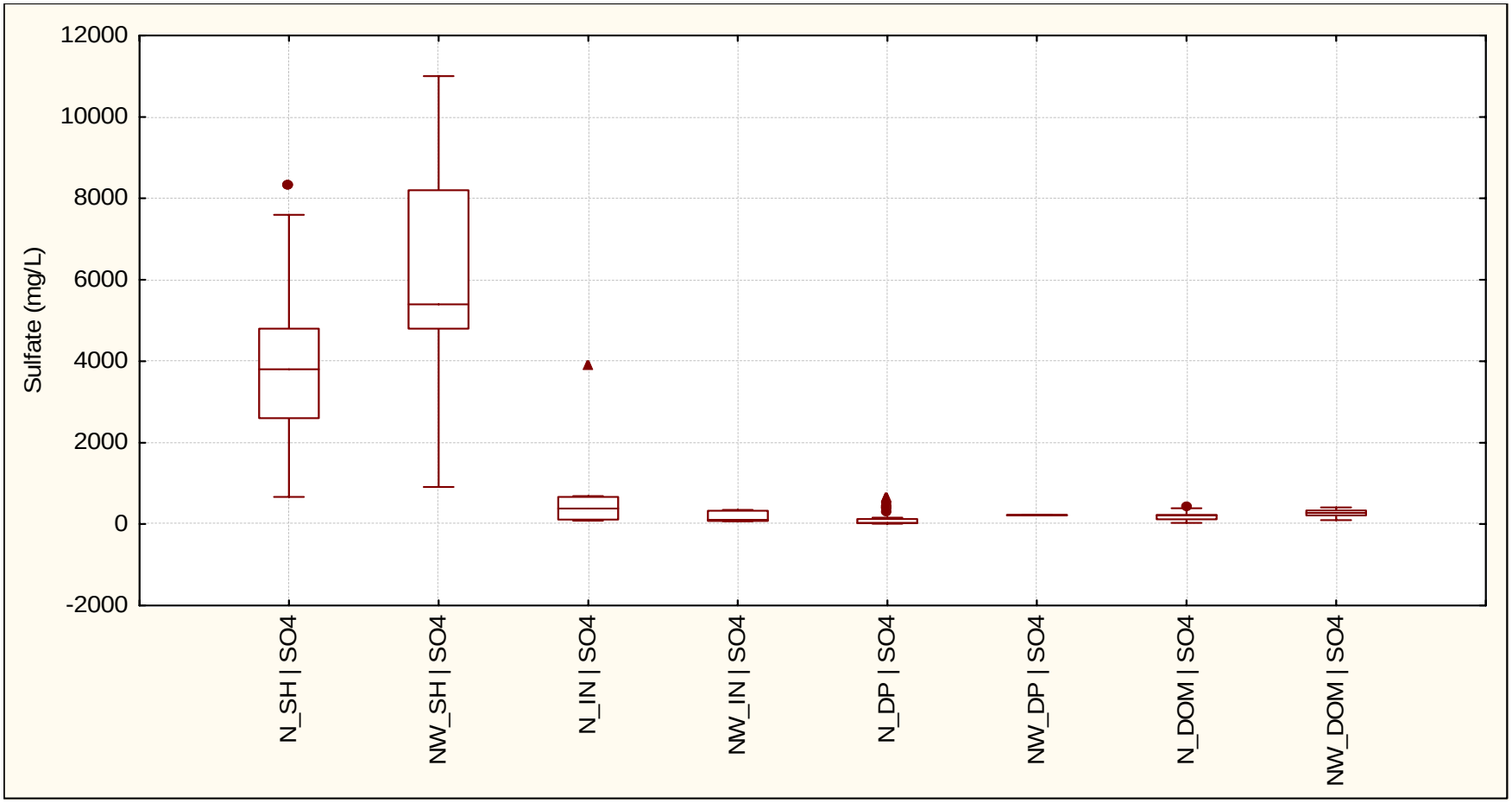

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Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

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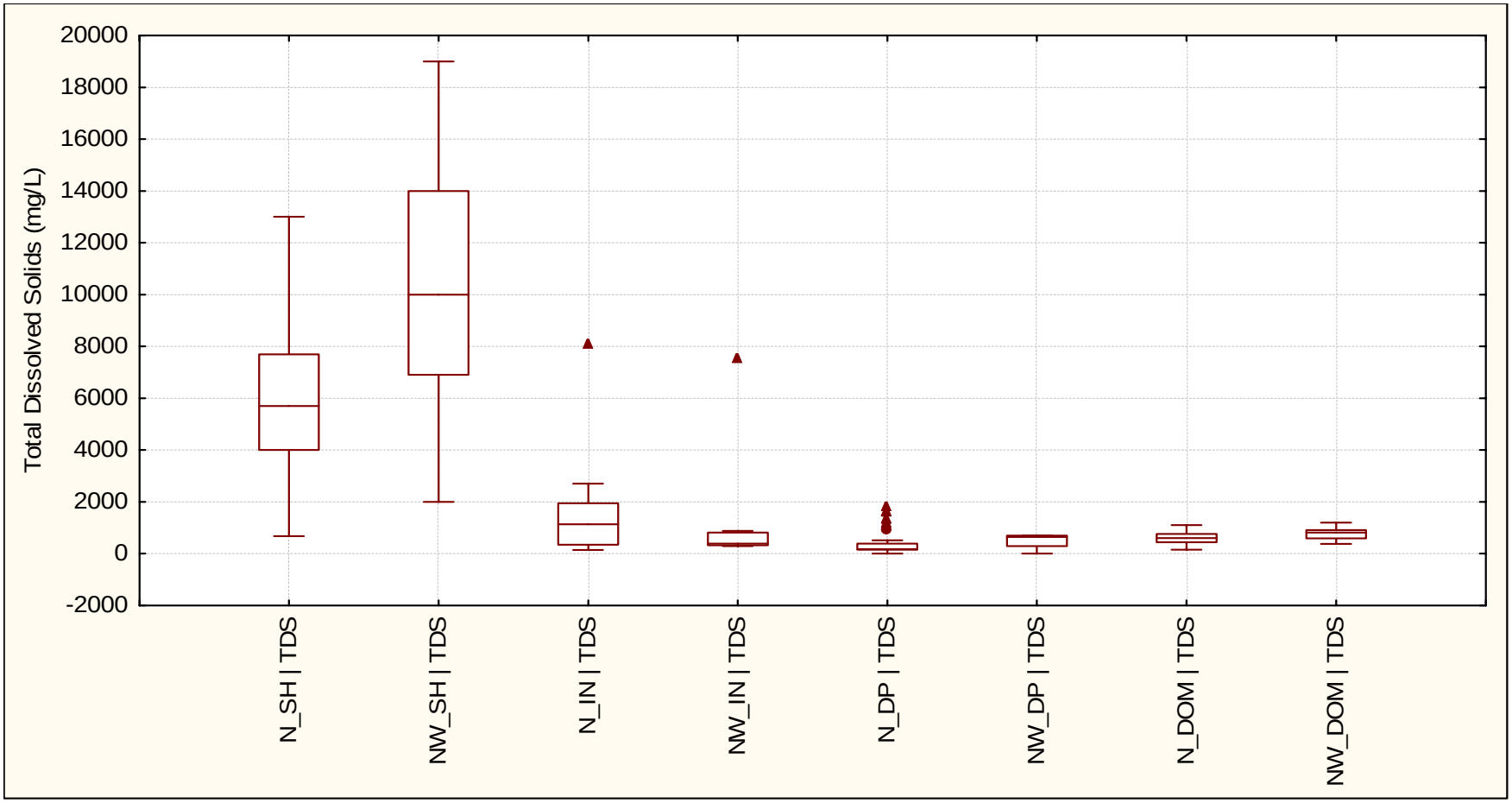

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Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

Metals

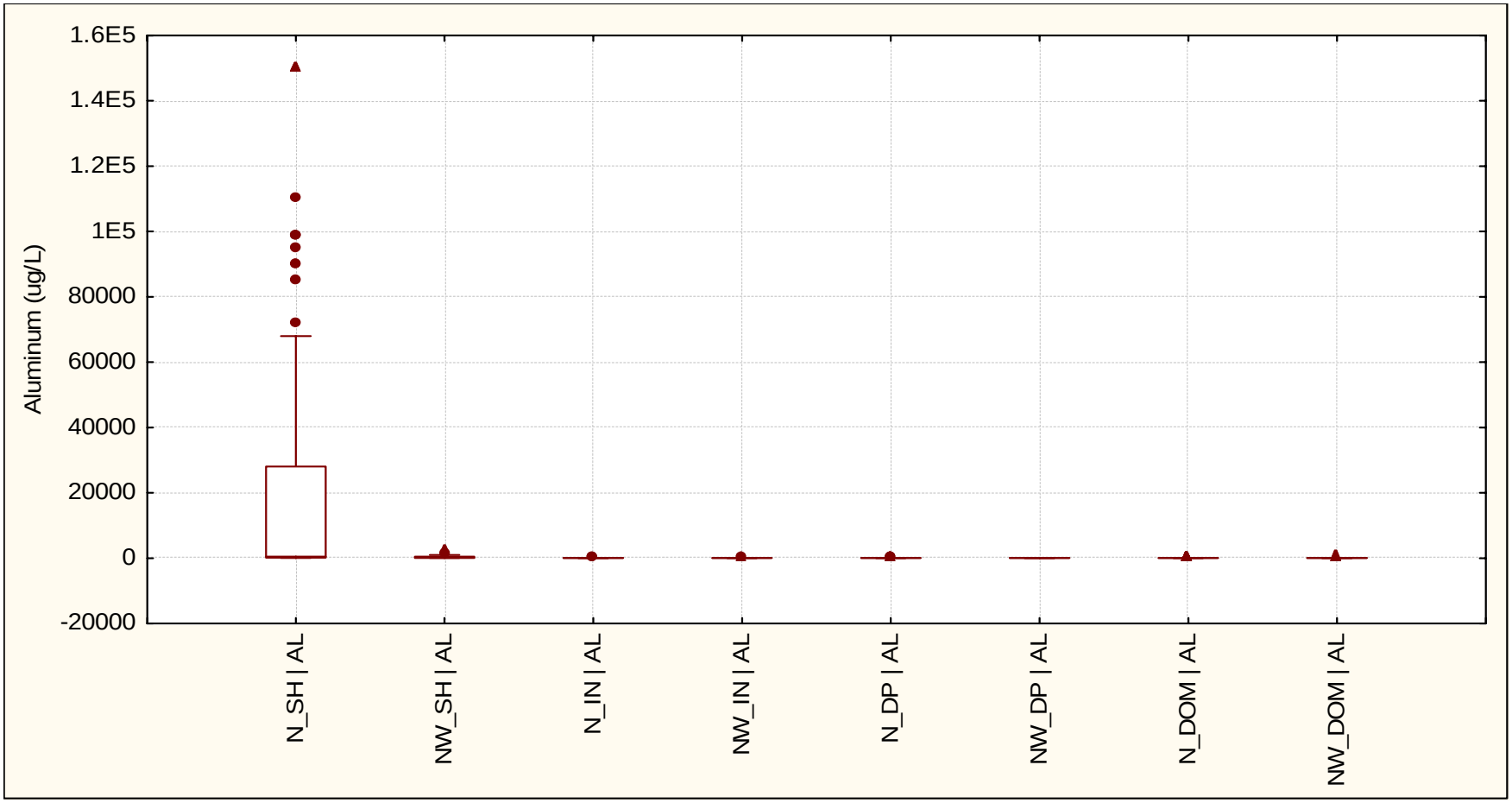

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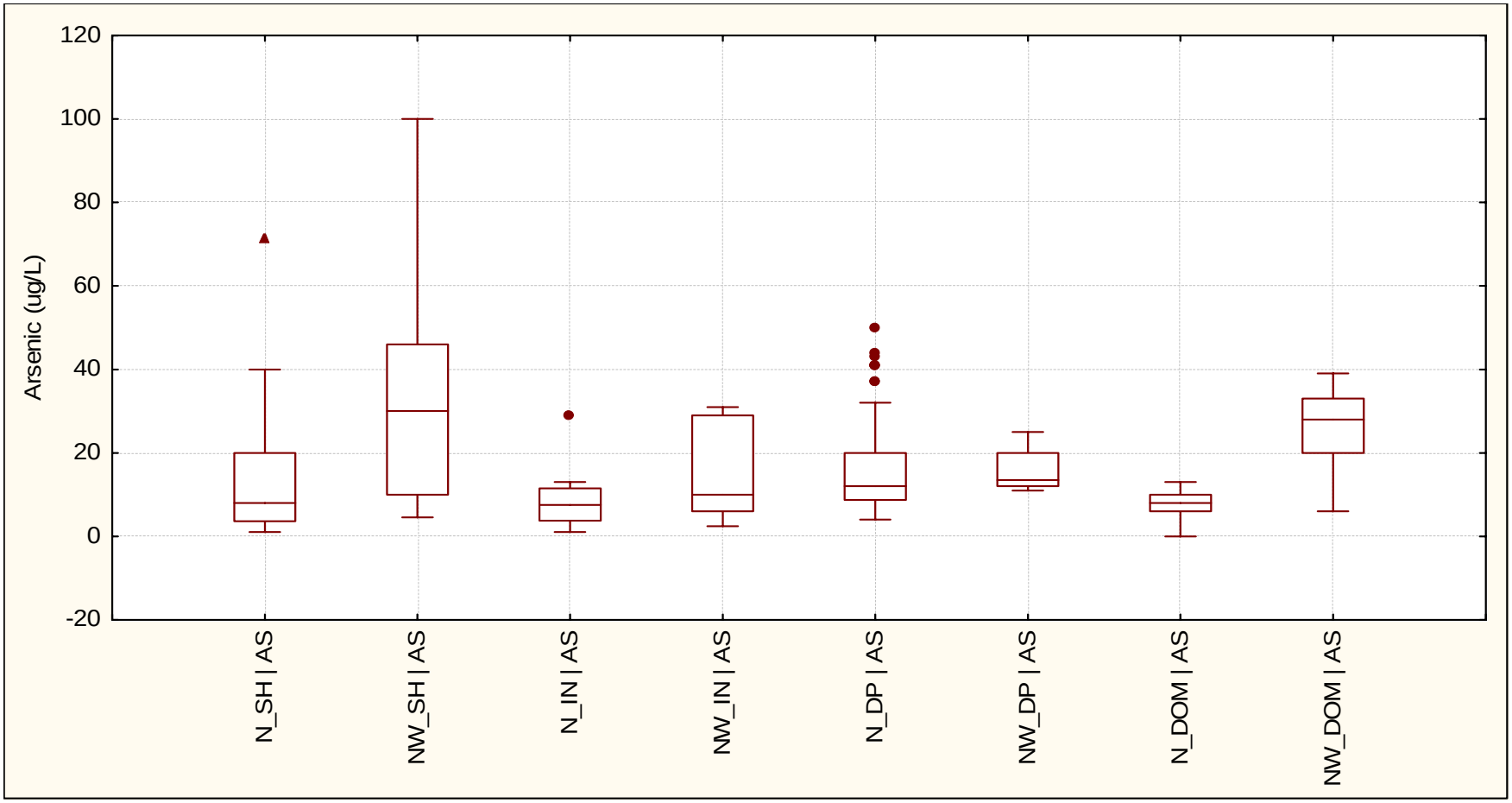
Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

Metals



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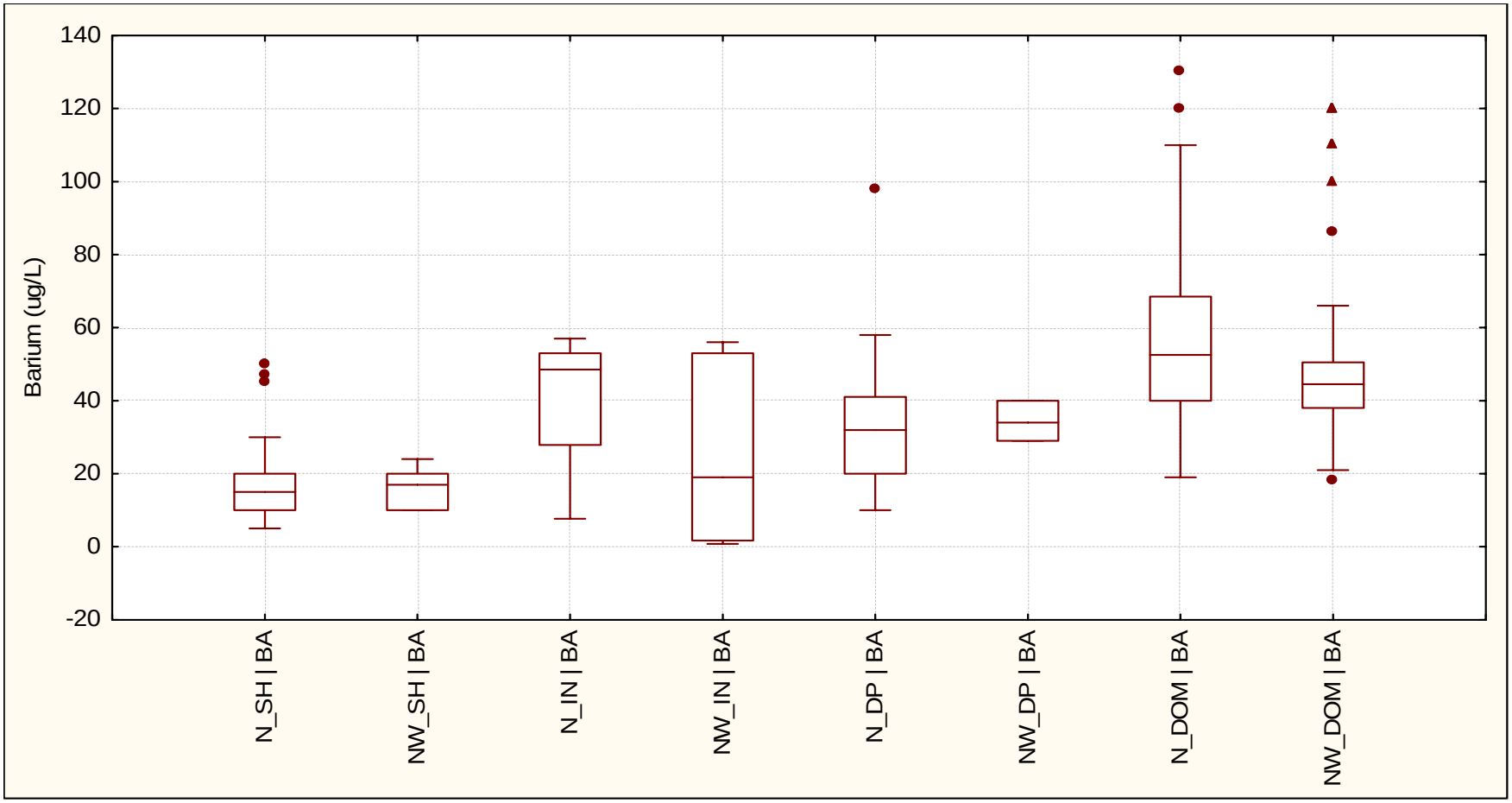

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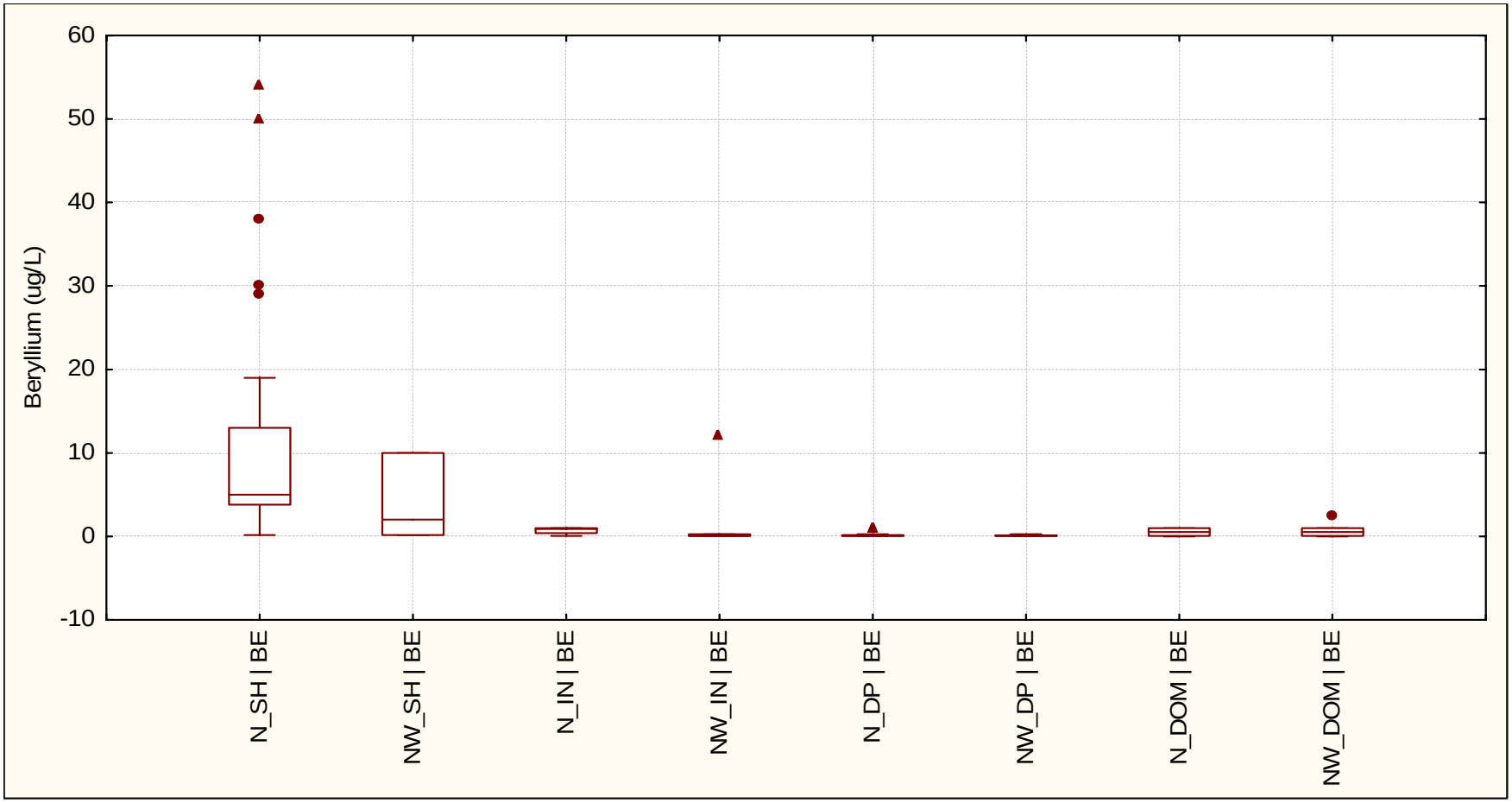

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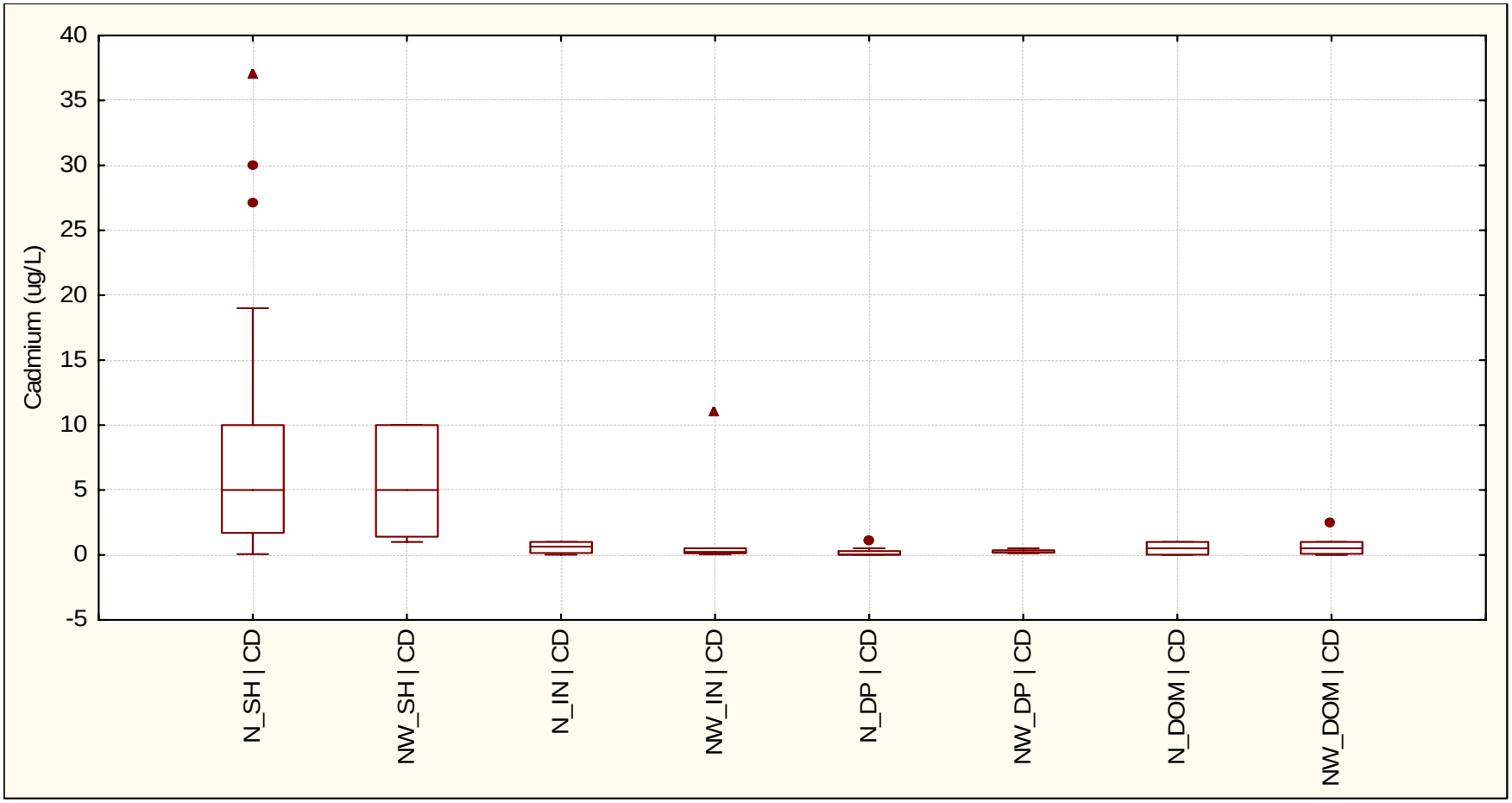
Figure B-4-4. Boxplots for Offsite Wells by Location and Depth

Metals



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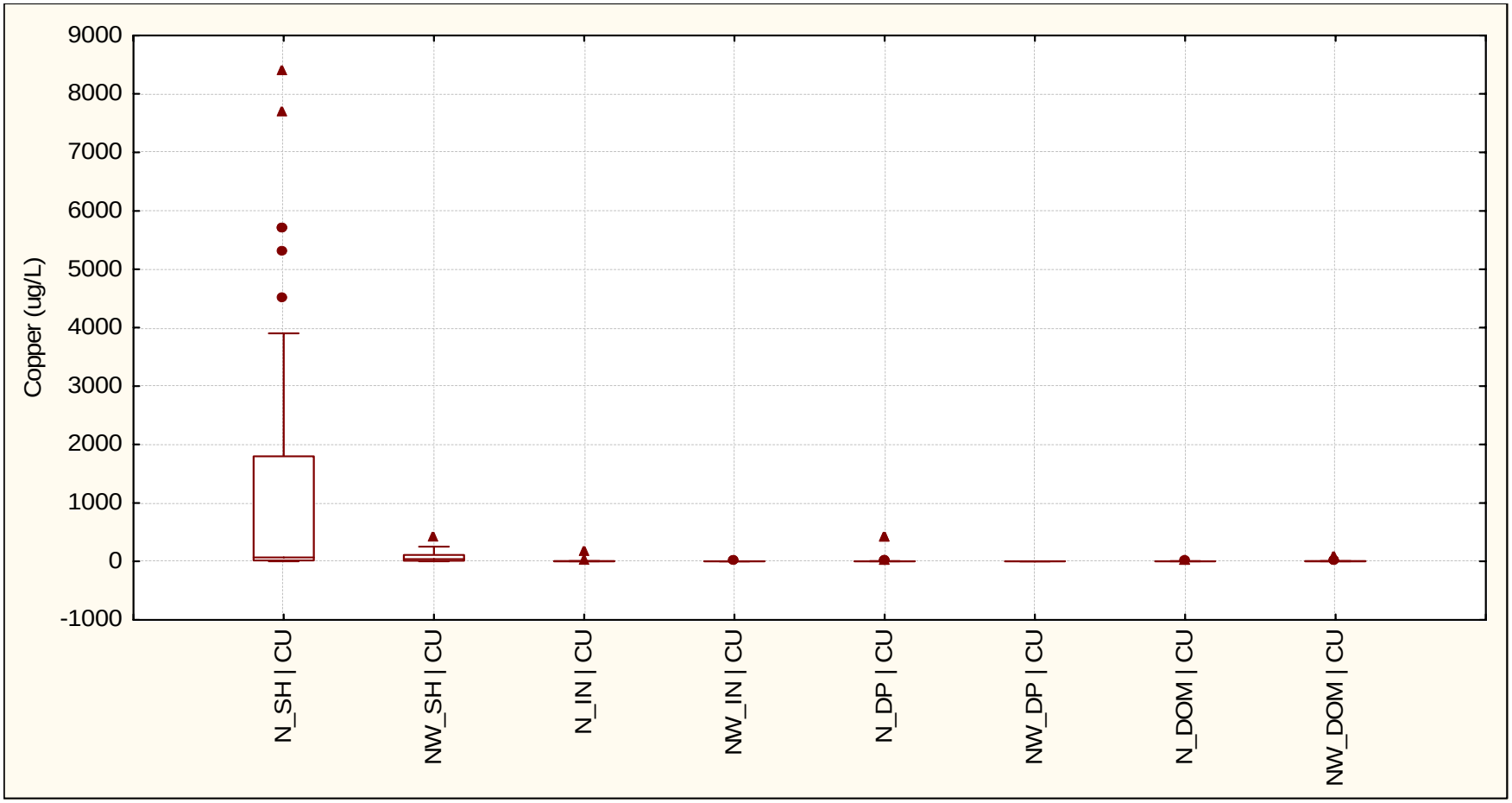

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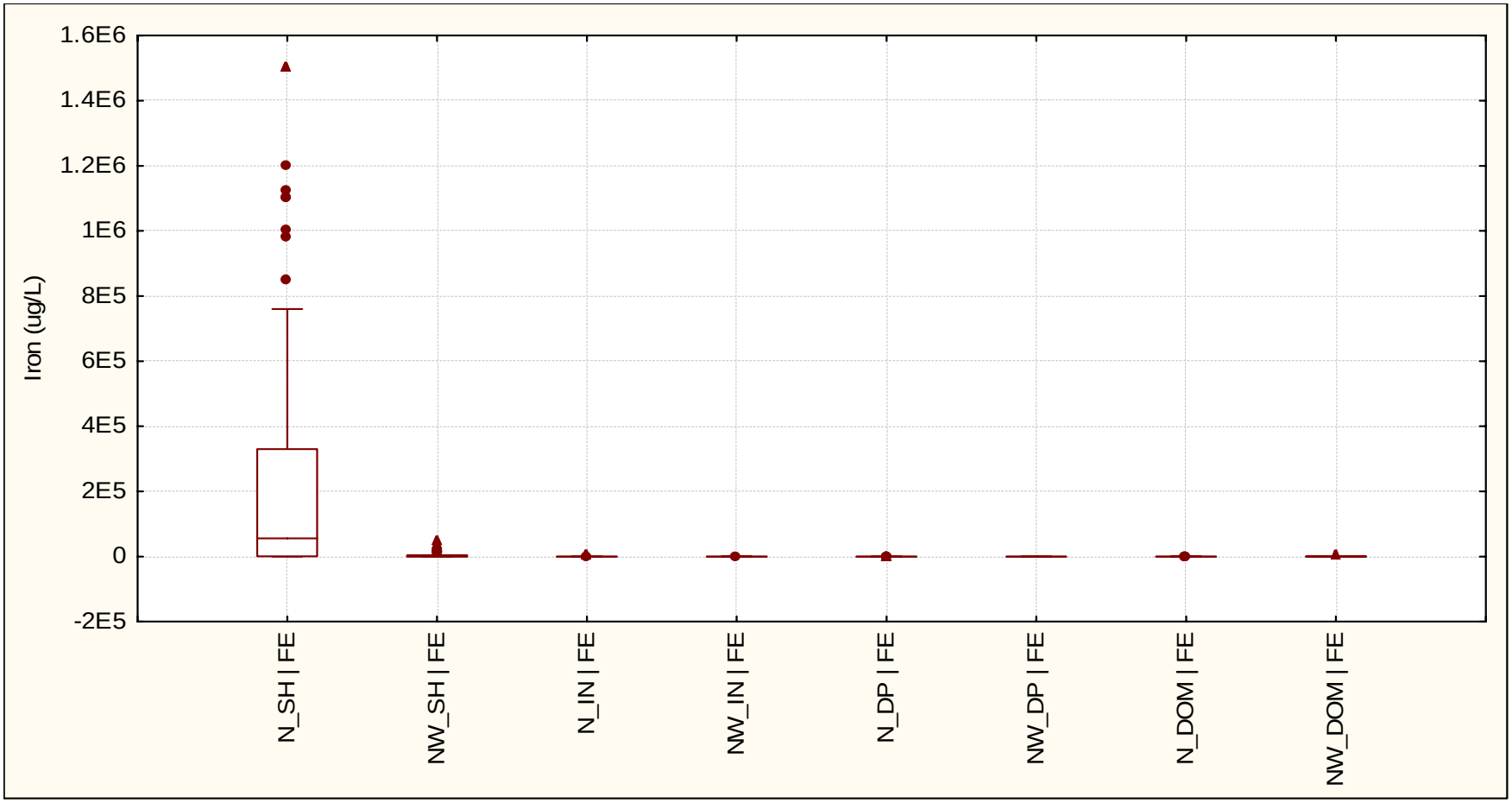

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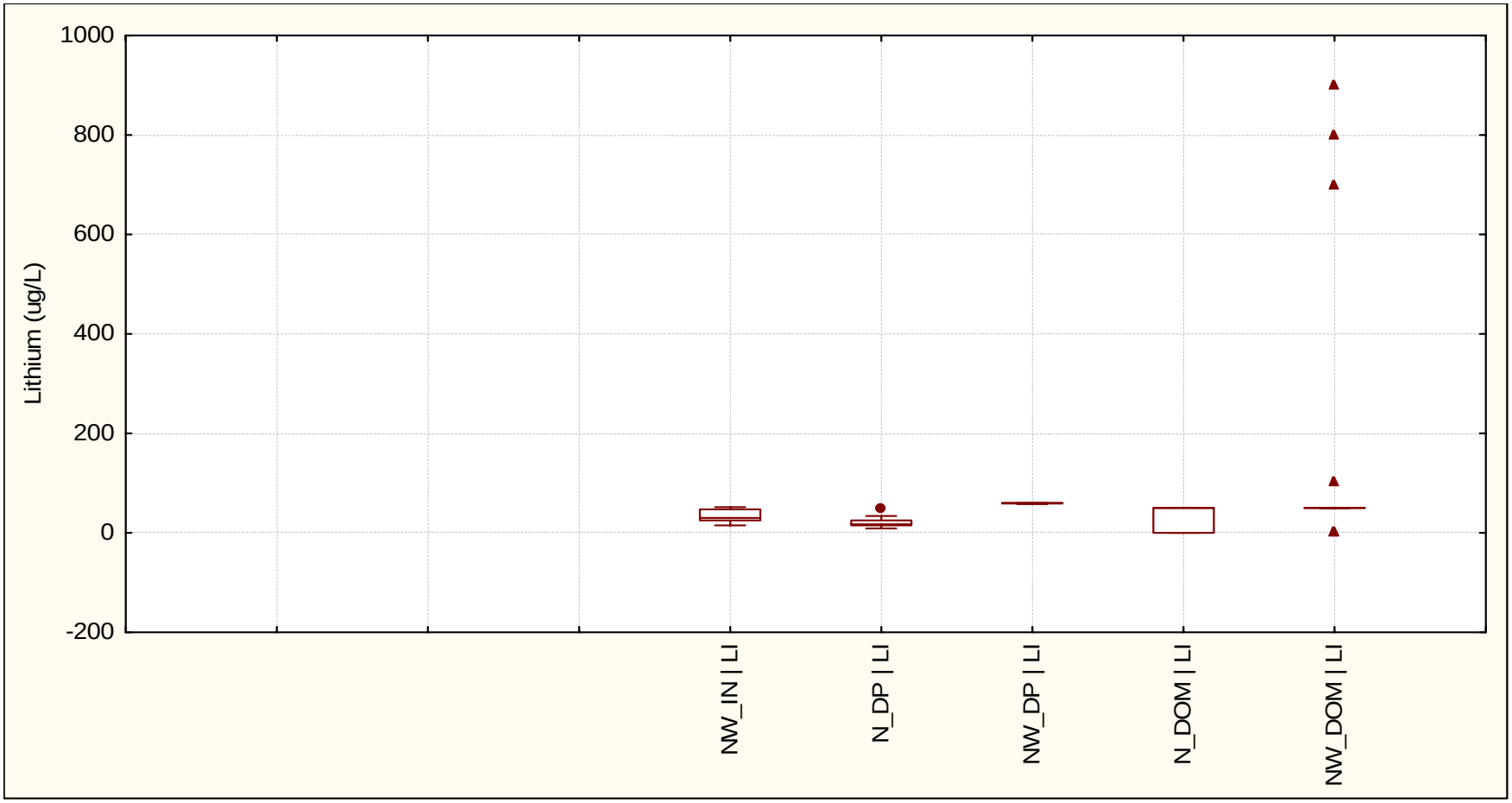

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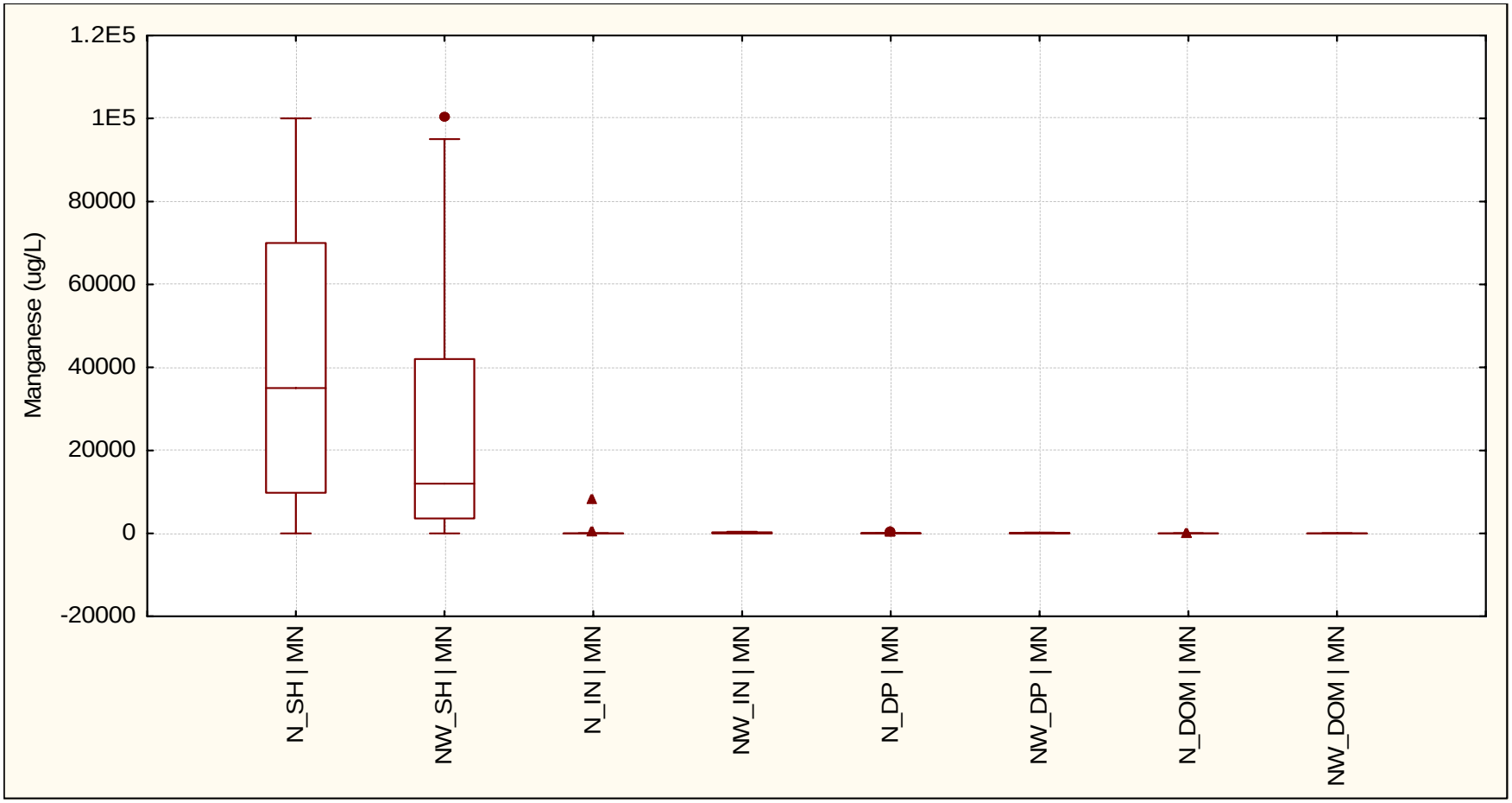

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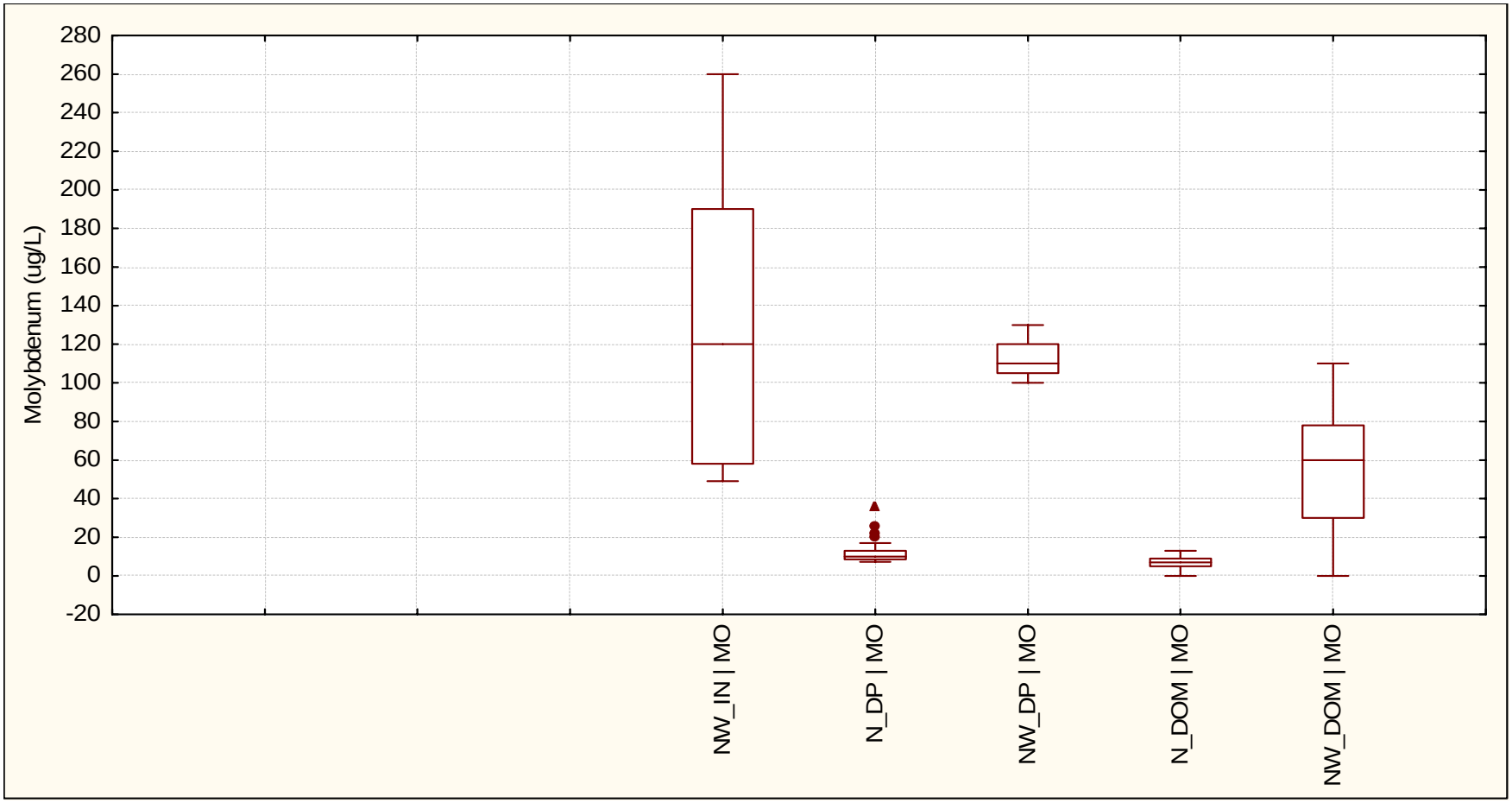

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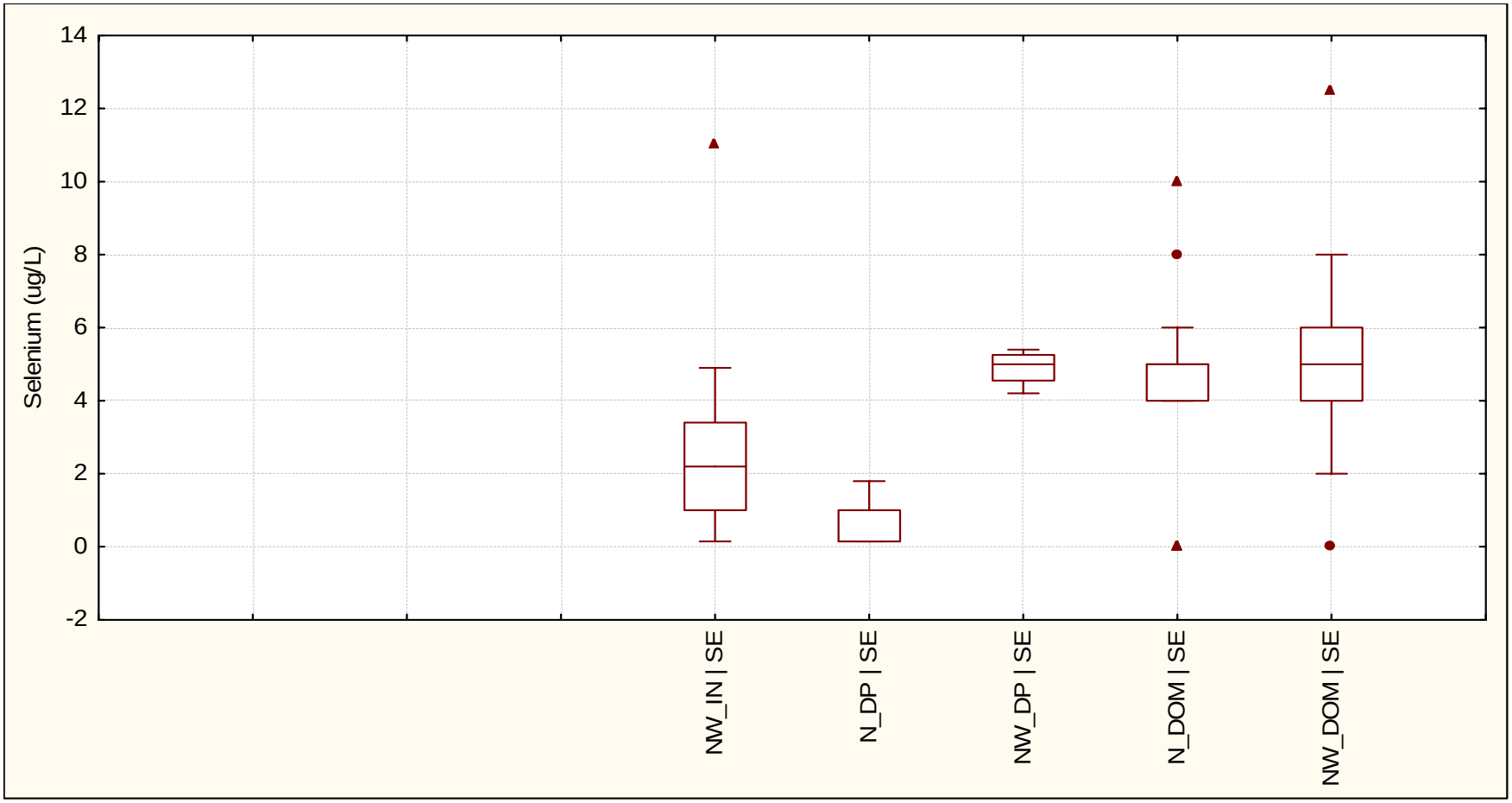

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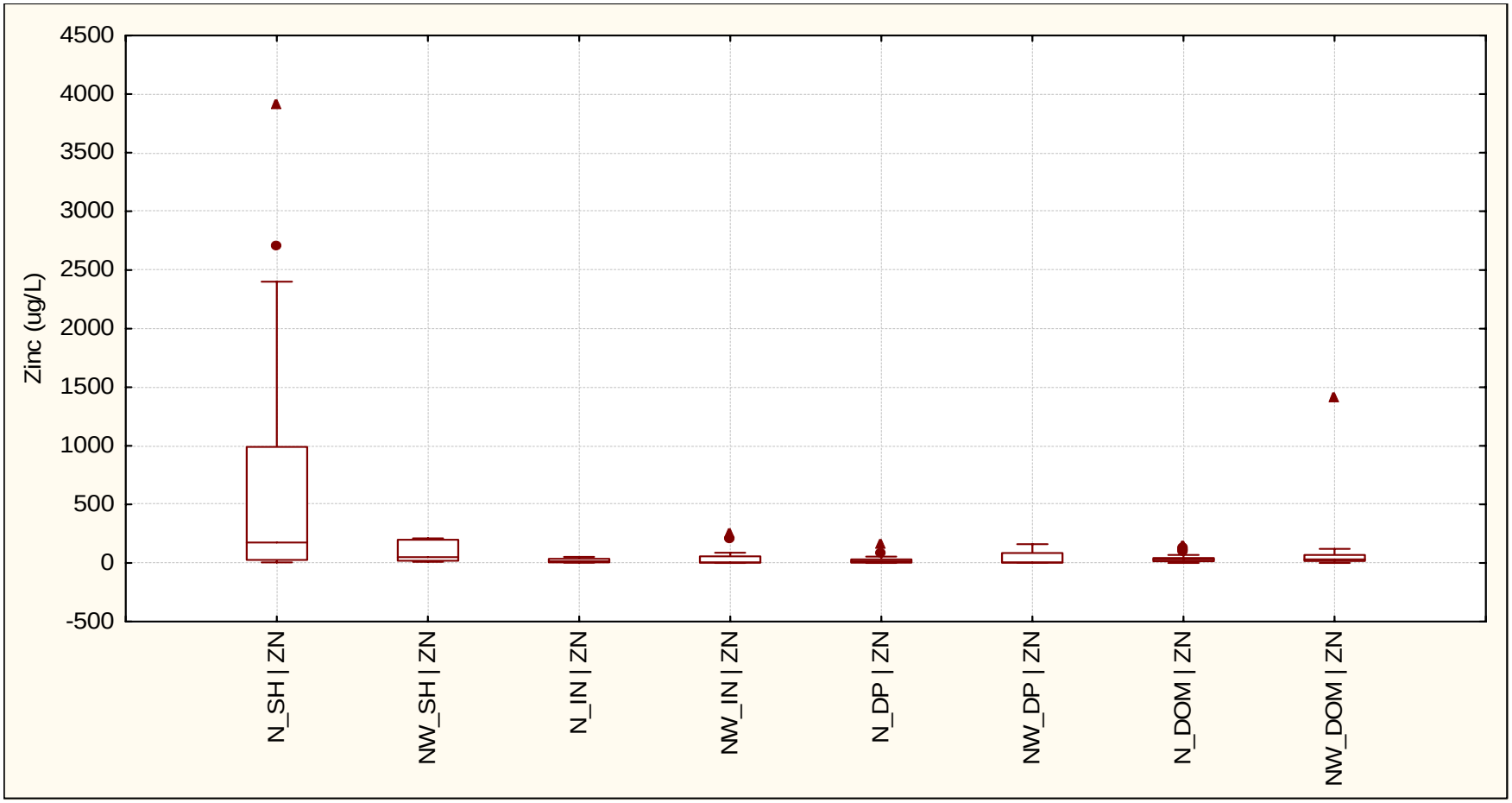

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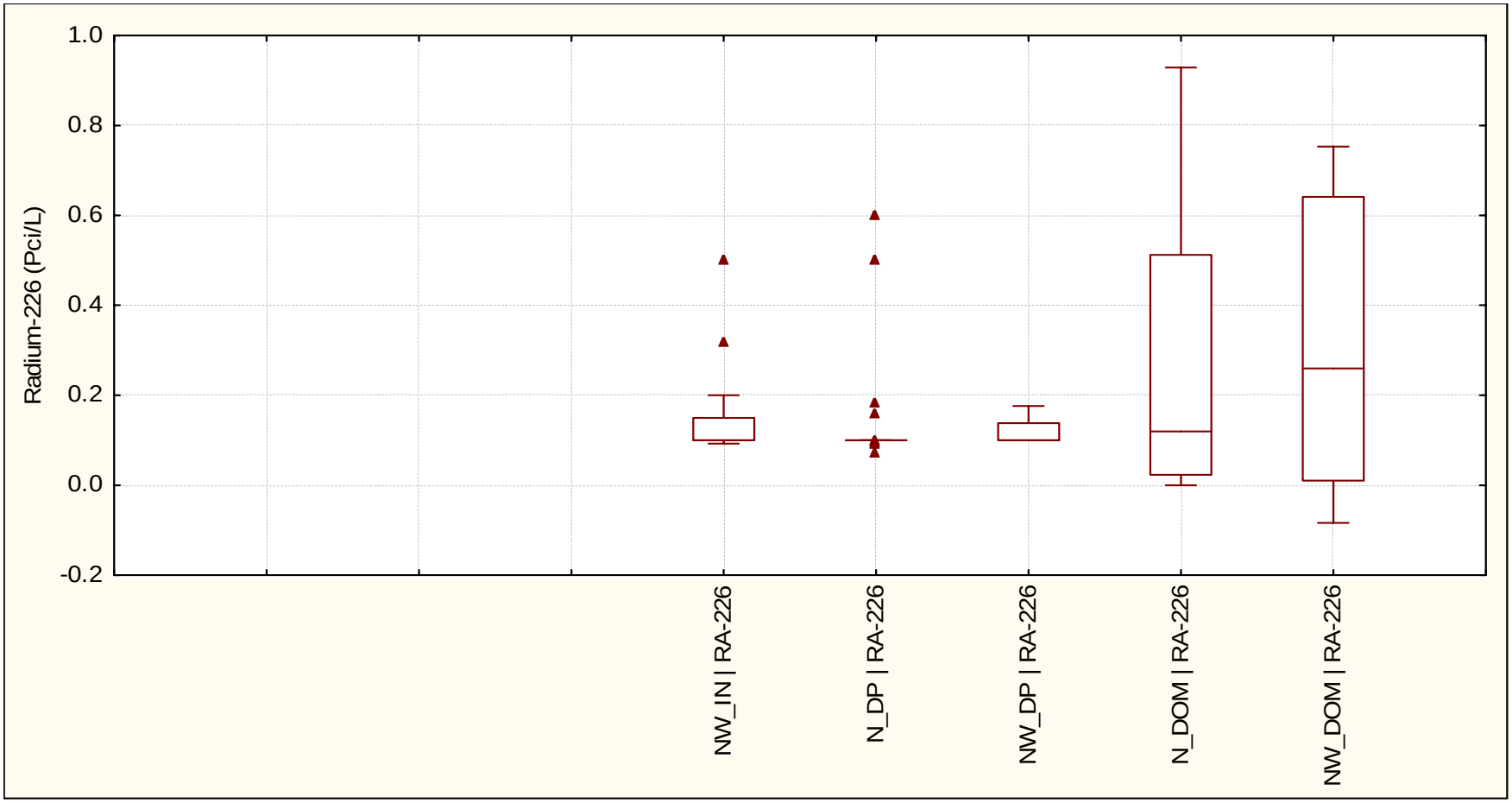

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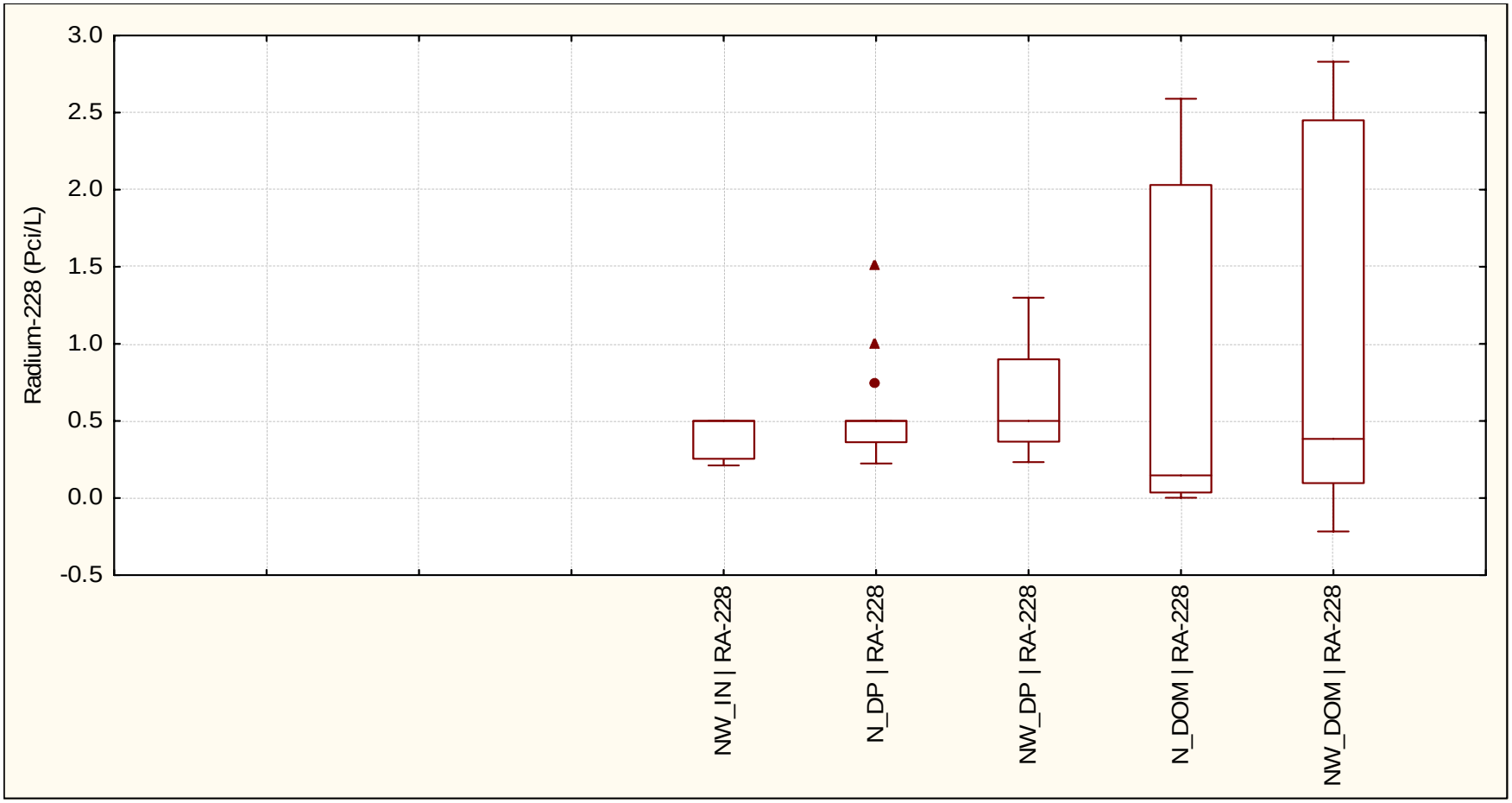

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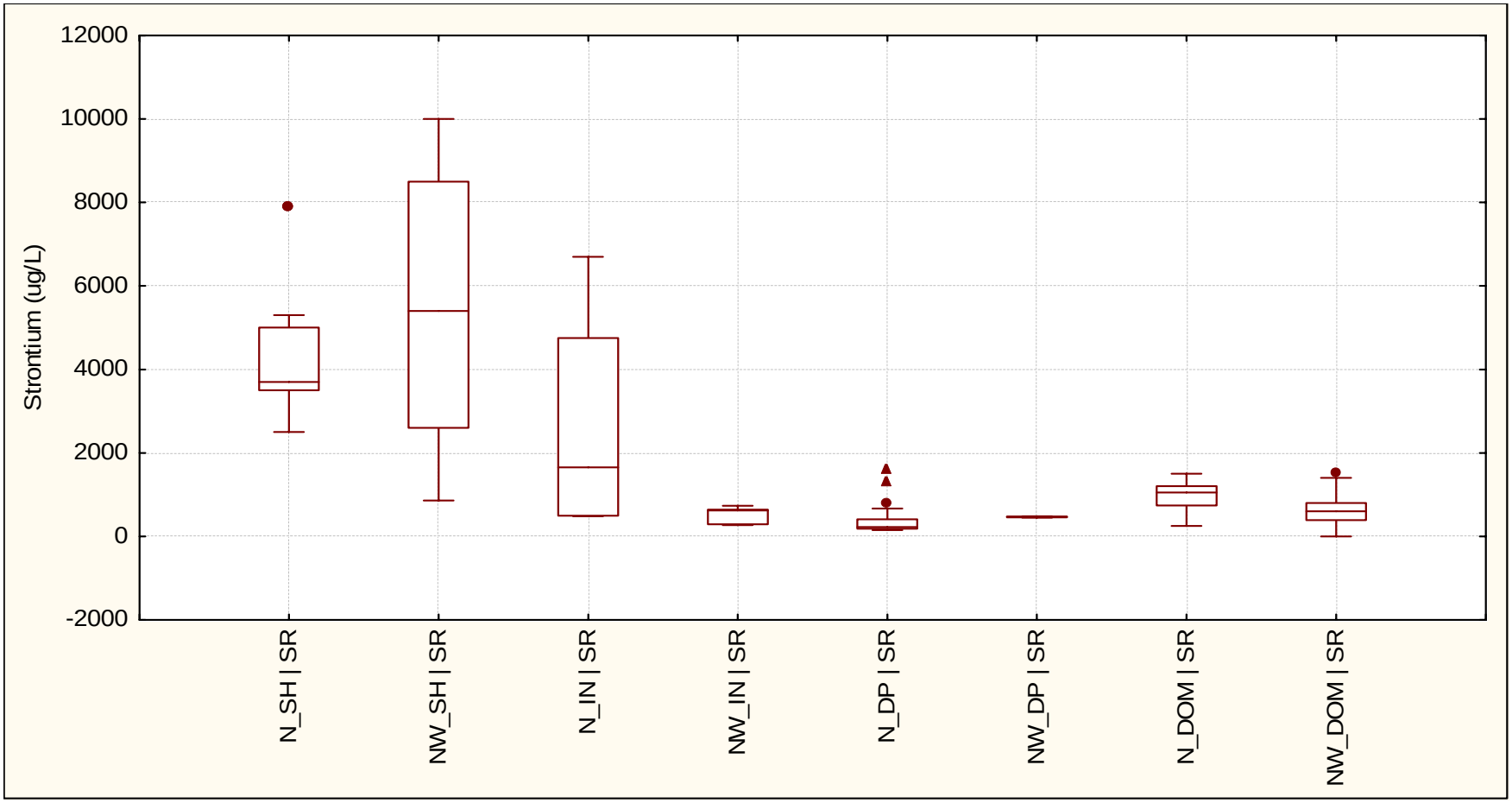

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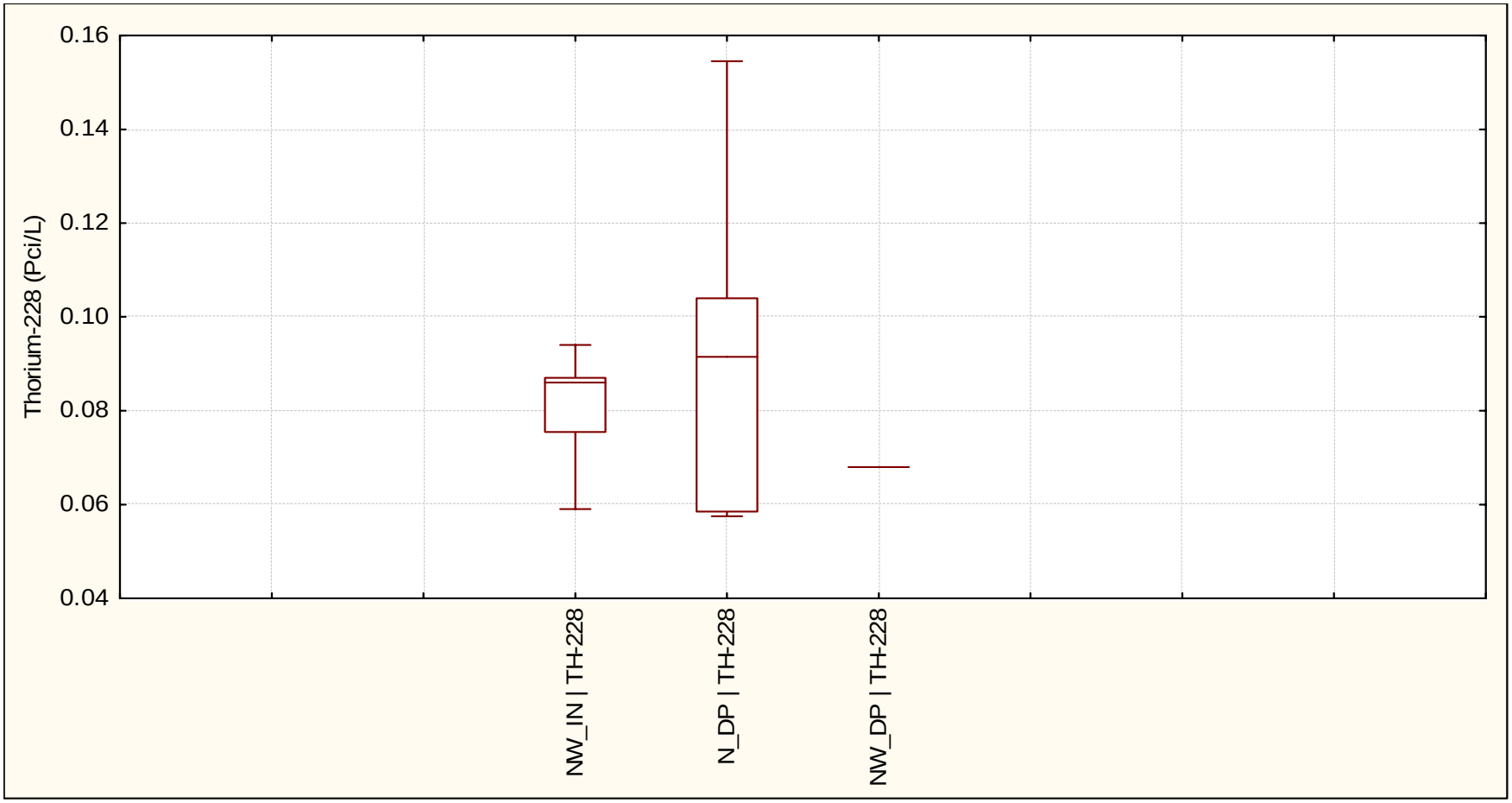

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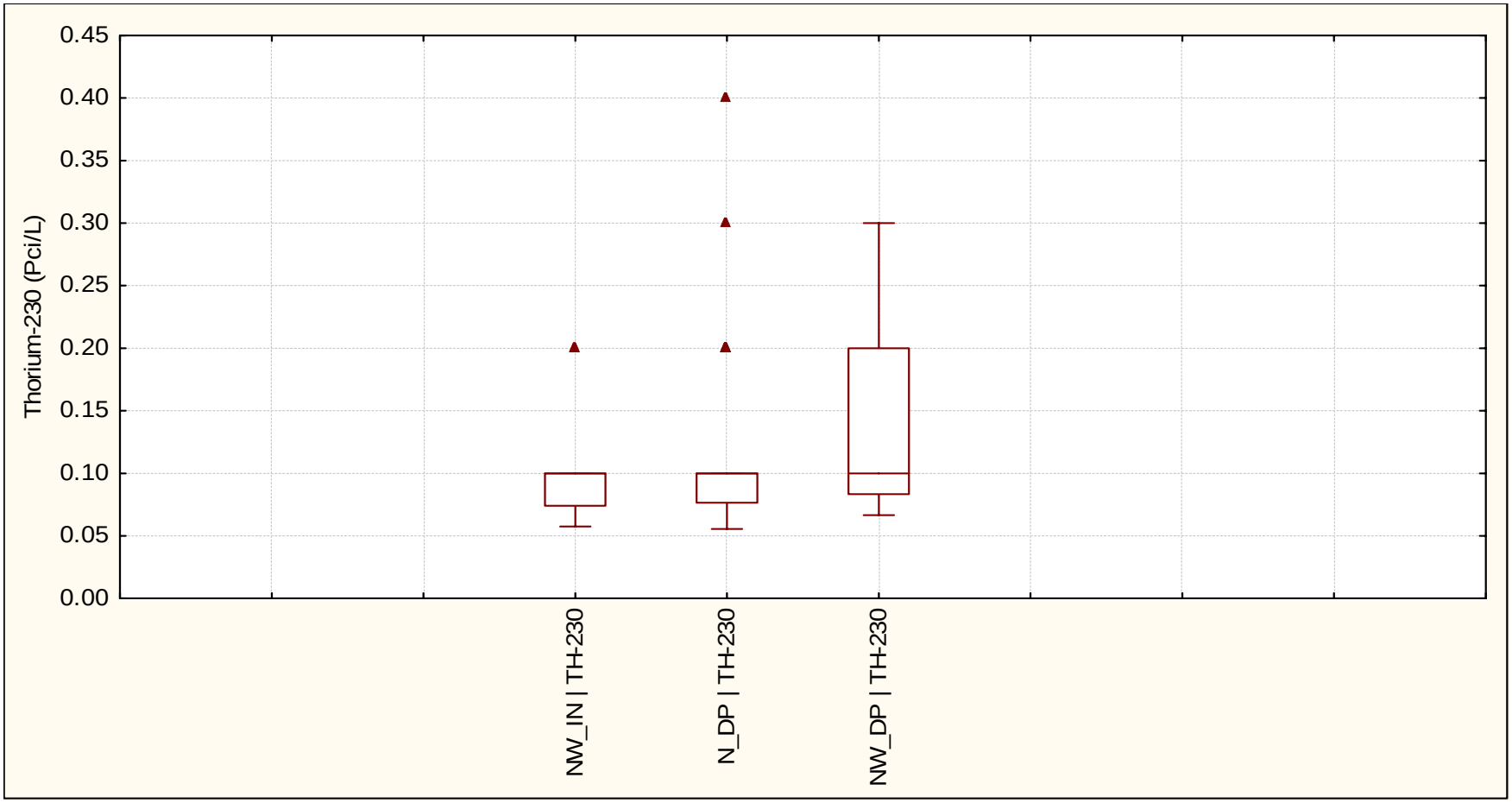

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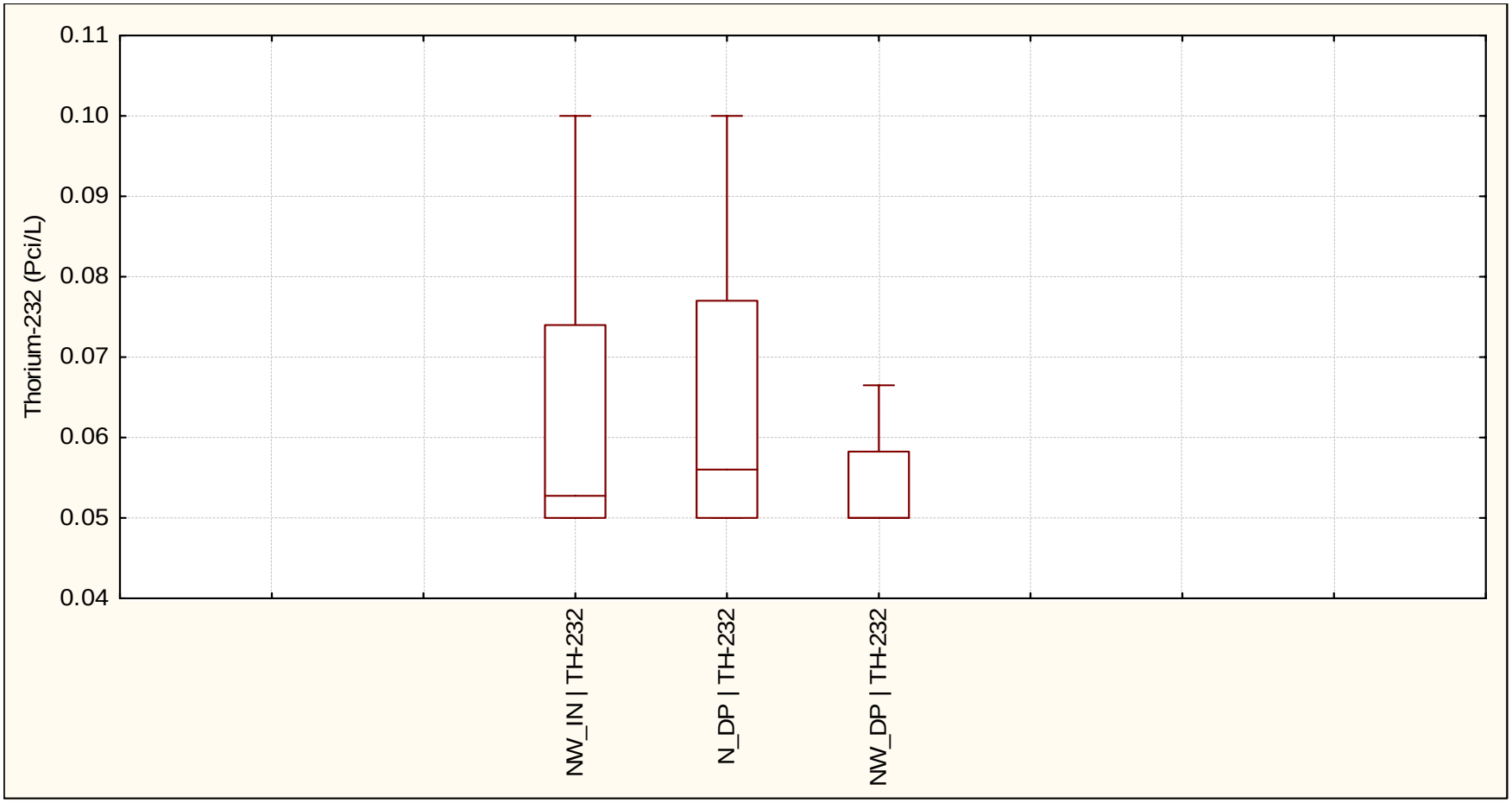

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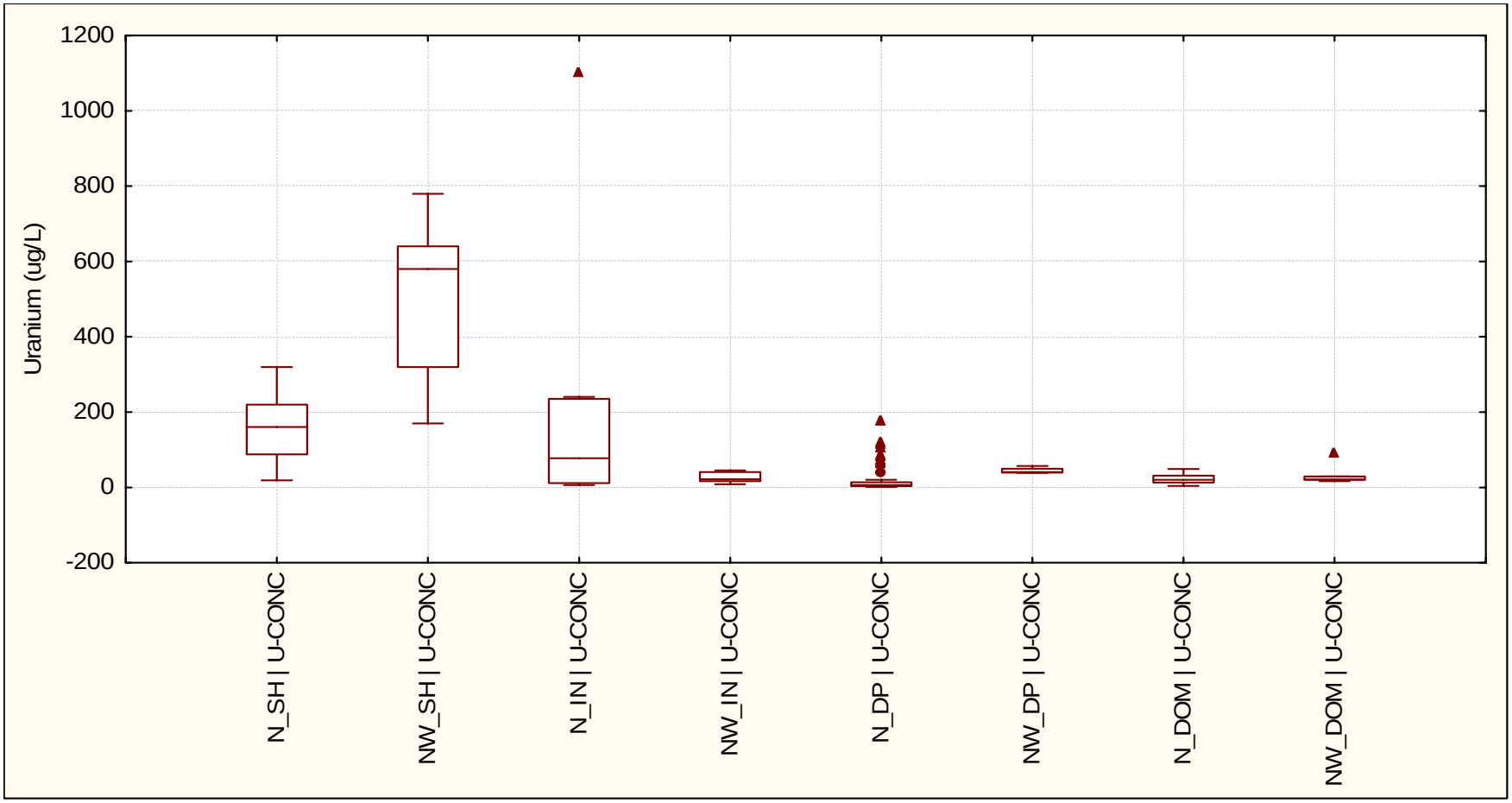

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