

DEEP MONITORING WELL AT THE HALSTEAD DIVERSION SITE, EB-145-P-D5 (380028097311002)

**STATISTICAL SUMMARY FOR FIELD PARAMETERS, MAJOR AND TRACE ELEMENTS, NUTRIENTS, BACTERIA, SEDIMENT, AND RADIONUCLIDES
DATA COLLECTED FROM OCT 1995 TO JUN 2010**

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS					PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE				(MEDIAN)	95%	75%	50%	25%	5%
		MAXIMUM	MINIMUM	MEAN						
00065 Gage height ft	68	8.57	-14.5	0.375	7.23	4.05	2.65	-2.84	-11.6	
72020 Elevation above NGVD ft	68	1380	1360	1370	1380	1380	1370	1370	1360	
72019 WaterLevel, BelowLSD ft	68	33.9	10.4	19.3	31	23	16.9	15.4	12.2	
00010 Temperature, water deg C	68	16.5	15.2	15.8	16.3	16	15.8	15.6	15.4	
00020 Temperature, air deg C	66	37	3	21.3	36.3	29.5	21.5	13	4.5	
00025 Air pressure mm/Hg	67	734	713	725	733	728	726	723	719	
00300 Dissolved oxygen mg/l	66	0.66	0.01	0.187	0.616	0.262	0.12	0.08	0.04	
00400 pH std units	68	7.33	6.2	7.05	7.28	7.19	7.1	6.96	6.67	
00403 pH, wu,lab std units	67	7.72	6.75	7.27	7.54	7.37	7.26	7.17	6.94	
00095 Specific cond at 25C uS/cm @25C	68	908	449	642	856	742	628	541	480	
90095 SpecCond,wu25degCLab uS/cm @25C	68	1110	486	653	868	743	633	549	493	
63001 Redox potential, raw mV	37	59	-145	-71.3	32.9	-60	-70	-90	-132	
63002 Redox potential, SHE mV	37	270	70	139	243	150	140	120	79	
63675 Turbidity, Nephelom NTU	68	4.54	0.16	1.22	3.56	1.75	0.813	0.411	0.205	
63676 Turbidity, NephRatio NTRU	65	3.29	--	0.422*	*2.222	*0.515	*0.180	*0.060	*0.024	
99872 Turbidity,Hach2100,l NTU	7	--	--	--	--	--	--	--	--	
00901 Carbonate hardness, wu mg/l CaCO3	68	317	139	208	287	244	198	172	142	
00900 Hardness, water mg/l CaCO3	68	318	139	208	287	244	201	172	142	
00915 Calcium, wf mg/l	68	102	44.8	67	91.8	79.1	64.3	55.6	46.1	
00916 Calcium, wu,recov mg/l	1	58.9	--	--	--	--	--	--	--	
00925 Magnesium, wf mg/l	68	15.2	6.45	9.91	14	11.7	9.58	8.08	6.58	
00927 Magnesium, wu,recov mg/l	1	8.57	--	--	--	--	--	--	--	
00935 Potassium, wf mg/l	68	5.08	1.74	2.25	2.85	2.47	2.19	1.92	1.75	
00937 Potassium, wu,recov mg/l	1	2.35	--	--	--	--	--	--	--	
00930 Sodium, wf mg/l	68	79.4	48.7	61.7	75.6	67.8	61	54.9	50.4	
00929 Sodium, wu,recov mg/l	1	53.9	--	--	--	--	--	--	--	
00419 ANC, wu, inflection pt,field mg/l CaCO3	2	284	238	--	--	--	--	--	--	
00416 ANC, wu, inflection point,lab mg/l CaCO3	1	232	--	--	--	--	--	--	--	
39087 Alkalinity, wf,inflect pt,lab mg/l CaCO3	68	288	186	229	270	249	231	207	188	
29806 HCO3, wf, inflection pt, lab mg/l	68	351	227	279	329	304	282	252	229	
00450 Bicarbonate,wu,inflect pt,fld mg/l	2	346	290	--	--	--	--	--	--	
00449 Bicarbonate,wu,inflect pt,lab mg/l	1	283	--	--	--	--	--	--	--	
29809 CO3, wf, inflection pt, lab mg/l	68	1	0	0.044	0.55	0	0	0	0	
00447 Carbonate, wu, inflect pt,fld mg/l	2	0	--	--	--	--	--	--	--	
00446 Carbonate, wu, inflect pt,lab mg/l	1	0	--	--	--	--	--	--	--	
00940 Chloride, wf mg/l	68	134	14	48.9	98.5	74.3	41	22.9	15.5	
00950 Fluoride, wf mg/l	38	0.42	0.1	0.294	0.391	0.32	0.3	0.268	0.185	

01034	Chromium, wu,recov ug/l	1	--	--	--	--	--	--	--	--	--
01040	Copper, wf ug/l	21	--	--	--	--	--	--	--	--	--
01042	Copper, wu,rec ug/l	1	--	--	--	--	--	--	--	--	--
00723	Cyanide, wf mg/l	21	--	--	--	--	--	--	--	--	--
00720	Cyanide, wu mg/l	1	0.001	--	--	--	--	--	--	--	--
01046	Iron, wf ug/l	68	750	10	307	665	450	265	139	33.6	
01045	Iron, wu,rec ug/l	1	41	--	--	--	--	--	--	--	--
01049	Lead, wf ug/l	21	--	--	--	--	--	--	--	--	--
01051	Lead, wu,recov ug/l	1	--	--	--	--	--	--	--	--	--
01056	Manganese, wf ug/l	68	995	308	553	822	640	548	429	382	
01055	Manganese, wu,recov ug/l	1	463	--	--	--	--	--	--	--	--
71890	Mercury, wf ug/l	21	--	--	--	--	--	--	--	--	--
71901	Mercury, wu, rec ug/l	1	--	--	--	--	--	--	--	--	--
01065	Nickel, wf ug/l	21	4.36	--	0.950*	*4.199	*1.070	*0.629	*0.392	*0.161	
01067	Nickel, wu,recov ug/l	1	--	--	--	--	--	--	--	--	--
01145	Selenium, wf ug/l	21	--	--	--	--	--	--	--	--	--
01147	Selenium, wu ug/l	1	--	--	--	--	--	--	--	--	--
01075	Silver, wf ug/l	21	--	--	--	--	--	--	--	--	--
01077	Silver, wu,recov ug/l	1	--	--	--	--	--	--	--	--	--
01080	Strontium, wf ug/l	21	739	314	475	729	533	480	400	316	
01082	Strontium, wu,recov ug/l	1	408	--	--	--	--	--	--	--	--
01057	Thallium, wf ug/l	21	--	--	--	--	--	--	--	--	--
01059	Thallium, wu ug/l	1	--	--	--	--	--	--	--	--	--
01085	Vanadium, wf ug/l	21	--	--	--	--	--	--	--	--	--
01087	Vanadium, wu ug/l	1	--	--	--	--	--	--	--	--	--
01090	Zinc, wf ug/l	21	16	--	4.322*	*15.480	*6.102	*3.043	*1.661	*0.688	
01092	Zinc, wu,rec ug/l	1	--	--	--	--	--	--	--	--	--
75986	Alpha 2scu, wf,U-nat ug/l	2	1.57	1.39	--	--	--	--	--	--	--
75987	Alpha 2scu, wf,Th230 pCi/L	3	3.09	1	--	--	--	--	--	--	--
04126	Alpha activity, wf, Th-230 pCi/L	3	--	--	--	--	--	--	--	--	--
75989	Beta 2scu, wf,Cs137 pCi/L	3	2.55	0.985	--	--	--	--	--	--	--
75988	Beta 2scu, wf,Sr/Y90 pCi/L	2	0.893	0.738	--	--	--	--	--	--	--
99337	Gross alpha 2X CL,wf pCi/L	7	--	--	--	--	--	--	--	--	--
80030	Gross alpha,wf,U-nat ug/l	2	--	--	--	--	--	--	--	--	--
99323	Gross beta MDC,wf pCi/L	7	--	--	--	--	--	--	--	--	--
03515	Gross beta, wf,Cs-137 pCi/L	3	--	--	--	--	--	--	--	--	--
80050	Gross beta,wf,Sr/Y90 pCi/L	2	--	--	--	--	--	--	--	--	--

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF ARSENIC SPECIATION DATA COLLECTED FROM OCT 1995 TO JUN 2010

WATER-QUALITY CONSTITUENT	SAMPLE SIZE	DESCRIPTIVE STATISTICS			PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
		MAXIMUM	MINIMUM	MEAN	95%	75%	50%	(MEDIAN)	25%
62453 Arsenate, wf ug/L as As	10	3.44	0.474	1.55	3.44	2.5	1.13	0.576	0.474
62452 Arsenite, wf ug/L as As	9	40.7	7.5	25.7	40.7	31	28.4	18.8	7.5
62455 Dimethylarsinate, wf ug/L as As	10	2.17	--	0.954*	*2.165	*1.227	*0.840	*0.505	*0.315
62454 Monomethylarsonate, wf ug/L as As	10	2.17	--	0.954*	*2.165	*1.227	*0.840	*0.505	*0.315

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF TRIAZINE HERBICIDE SCREEN DATA COLLECTED FROM OCT 1995 TO JUN 2010

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	(MEDIAN)				5%
					95%	75%	50%	25%	
00065 Gage height ft	66	8.57	-14.5	0.442	6.78	4.04	2.65	-2.51	-11.6
00095 Specific cond at 25C uS/cm @25C	66	908	449	641	856	742	628	537	480
34756 Triazines, ELISA, wf ugAtrazn/L	67	0.34	--	0.081*	*0.244	*0.110	*0.058	*0.033	*0.014
34757 Triazines, ELISA, wu ugAtrazn/L	67	0.34	--	0.081*	*0.244	*0.110	*0.058	*0.033	*0.014

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF COMMONLY USED PESTICIDES AND THEIR DEGRADATES DATA COLLECTED FROM OCT 1995 TO MAR 2008

62721 Glufosinate, w, gf<.7u ug/l
62722 Glyphosate, w, gf<.7u ug/l

SAMPLES ANALYZED BY THE NATIONAL WATER QUALITY LABORATORY

ORGANOPHOSPHATES AND ORGANOCHLORIDE PESTICIDES + GROSS PCBs

39755	Mirex, wu ug/l	1	--	--	--	--	--	--	--	--	--
39360	p,p'-DDD, wu ug/l	1	--	--	--	--	--	--	--	--	--
39365	p,p'-DDE, wu ug/l	1	--	--	--	--	--	--	--	--	--
39370	p,p'-DDT, wu ug/l	1	--	--	--	--	--	--	--	--	--
39034	p,p'-Ethyl-DDD, wu ug/l	1	--	--	--	--	--	--	--	--	--
39480	p,p'-Methoxychlor, wu ug/l	1	--	--	--	--	--	--	--	--	--
39540	Parathion, wu ug/l	1	--	--	--	--	--	--	--	--	--
39516	PCBs, wu ug/l	1	--	--	--	--	--	--	--	--	--
39023	Phorate, wu ug/l	1	--	--	--	--	--	--	--	--	--
39250	PCNs, wu ug/l	1	--	--	--	--	--	--	--	--	--
39400	Toxaphene, wu ug/l	1	--	--	--	--	--	--	--	--	--
39040	Tribuphos, wu ug/l	1	--	--	--	--	--	--	--	--	--

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF ANTIBIOTIC DATA COLLECTED FROM JUN 2002 TO JUN 2002

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE				(MEDIAN)				5%
		MAXIMUM	MINIMUM	MEAN	95%	75%	50%	25%	
62650 Anhydrochlortetracycline, gf.7 ug/l	1	--	--	--	--	--	--	--	--
62651 Anhydrotetracycline, w, gf<0.7u ug/l	1	--	--	--	--	--	--	--	--
62658 Carbadox, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
61744 Chlorotetracycline, wf ug/l	1	--	--	--	--	--	--	--	--
62680 Demeclocycline, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62694 Doxycycline, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62717 Flumequine, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62751 Minocycline, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62757 Norfloxacin, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62759 Oxolinic acid, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
61759 Oxytetracycline, wf ug/l	1	--	--	--	--	--	--	--	--
62771 Sarafloxacin, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62774 Sulfachlorpyridazine, gf<0.7u ug/l	1	--	--	--	--	--	--	--	--
62776 Sulfadimethoxine, w, gf<0.7u ug/l	1	--	--	--	--	--	--	--	--
62777 Sulfamerazine, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
61762 Sulfamethazine, wf ug/l	1	--	--	--	--	--	--	--	--
62021 Sulfamethoxazole, wf ug/l	1	--	--	--	--	--	--	--	--
62778 Sulfathiazole, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--
62781 Tetracycline, w, gf<.7u ug/l	1	--	--	--	--	--	--	--	--

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF VOLATILE ORGANIC COMPOUNDS DATA COLLECTED FROM OCT 1995 TO MAY 2000

77093	cis-1,2-Dichloroethene ug/l	5	--	--	--	--	--	--	--	--	--
34704	cis-1,3-Dichloropropene, wu ug/l	5	--	--	--	--	--	--	--	--	--
32105	Dibromochloromethane, wu ug/l	5	--	--	--	--	--	--	--	--	--
30217	Dibromomethane, wu ug/l	5	--	--	--	--	--	--	--	--	--
34668	CFC-12, wu ug/l	5	--	--	--	--	--	--	--	--	--
34423	Dichloromethane, wu ug/l	5	--	--	--	--	--	--	--	--	--
34371	Ethylbenzene, wu ug/l	5	--	--	--	--	--	--	--	--	--
39702	Hexachlorobutadiene, wu ug/l	5	--	--	--	--	--	--	--	--	--
34396	Hexachloroethane, wu ug/l	1	--	--	--	--	--	--	--	--	--
77223	Isopropylbenzene, wu ug/l	5	--	--	--	--	--	--	--	--	--
34696	Naphthalene, wu ug/l	5	--	--	--	--	--	--	--	--	--
77342	n-Butylbenzene, wu ug/l	5	--	--	--	--	--	--	--	--	--
77224	n-Propylbenzene, wu ug/l	5	--	--	--	--	--	--	--	--	--
77350	sec-Butylbenzene, wu ug/l	5	--	--	--	--	--	--	--	--	--
77128	Styrene, wu ug/l	5	--	--	--	--	--	--	--	--	--
78032	MTBE, wu ug/l	5	--	--	--	--	--	--	--	--	--
77353	t-Butylbenzene, wu ug/l	5	--	--	--	--	--	--	--	--	--
34475	Tetrachloroethene, wu ug/l	5	--	--	--	--	--	--	--	--	--
32102	Tetrachloromethane, wu ug/l	5	--	--	--	--	--	--	--	--	--
34010	Toluene, wu ug/l	5	--	--	--	--	--	--	--	--	--
34546	trans-1,2-Dichloroethene, wu ug/l	5	--	--	--	--	--	--	--	--	--
34699	trans-1,3-Dichloropropene, wu ug/l	5	--	--	--	--	--	--	--	--	--
32104	Tribromomethane, wu ug/l	5	--	--	--	--	--	--	--	--	--
39180	Trichloroethene, wu ug/l	5	--	--	--	--	--	--	--	--	--
34488	CFC-11, wu ug/l	5	--	--	--	--	--	--	--	--	--
32106	Trichloromethane, wu ug/l	5	--	--	--	--	--	--	--	--	--
39175	Vinyl chloride, wu ug/l	5	--	--	--	--	--	--	--	--	--

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