Fw: the ORD data summarized and compared to CVs.

Lora Werner to: KarenD Johnson, Dennis Carney 12/22/2011 11:43 AM
Cc: "Bob Helverson"

From: Lora Werner/R3/USEPA/US
To: KarenD Johnson/R3/USEPA/US@EPA, "Dennis Carney" <Carney.Dennis@epamail.epa.gov>,

Cc: "Bob Helverson" <helverson.robert@epa.gov>

As we just discussed.
Thanks, Lora

Lora Siegmann Werner, ATSDR/CDC Region 3
Robert Helverson

----- Original Message -----
From: Robert Helverson
Sent: 12/22/2011 11:05 AM EST
To: Lora Werner; Markiewicz.karl@epa.gov
Subject: the ORD data summarized and compared to CVs.

Per Dennis, Shawn G. would like some info about this data today. Table below is all hits. I pulled all exceedances out and that is the text below. Not sure how we should proceed now.

Ex. 6 - Personal Privacy **well**
Arsenic (5.20 ug/L) exceeds CREG (0.02 ug/L) and child chronic EMEG of 3 ug/L.
Iron (386 ug/L) exceeds EPA SMCL (300 u/L).
Manganese (163 ug/L) exceeds SMCL (50 ug/L).
Methane (7,790 ug/L) is below the DOI level (28,000), but within the level (3,000-10,000) where mitigative actions are recommended to reduce risk of explosion.

Ex. 6 - Personal Privacy **wells**
Arsenic CREG (0.02 ug/L) exceedance for both wells (2.1 and 1.0 ug/L)
Iron (405 ug/L) exceeds EPA SMCL (300 u/L) in old well.
Manganese (94 ug/L) exceeds SMCL (50 ug/L) in old well.
Sodium (61,400 ug/L) exceeds EPA drinking water advisory (20,000 ug/L) in old well.

Table 1
EPA ORD November 1, 2011 Dimock
Summary of Hits

Well Id				NEPAGW21	NEPAGW22	NEPAGW23
		MDL	QL	Ex. 6 - Personal Privacy (new well)	Ex. 6 - Personal Privacy (old well)	Ex. 6 - Personal Privacy
Date				11/1/2011	11/1/2011	11/1/2011
Cl	mg/L	0.106	1.00	1.01	132 D	18.2
SO4	mg/L	0.049	1.00	13.4	<0.049 U	2.55
Fe^{2+}	mg/L			0.00	0.12	0.07
ΣH_2S	mg S/L			0.02	0.07	0.08
Dissolved As	µg/L	0.009	0.031	1.58	0.401	5.17
Total As	µg/L	0.020	0.067	2.13	1.01	5.20
Dissolved Ba	µg/L	1	4	148	1850	516
Total Ba	µg/L	1	4	151	1850	510
Dissolved Ca	mg/L	0.086	0.287	23.2	25.5	29.2
Total Ca	mg/L	0.096	0.319	23.6	25.9	29.3
Total Cd	µg/L	0.009	0.028	<0.009 U	<0.009 U	0.014 J
Dissolved Cu	µg/L	0.073	0.242	0.461	0.194 J	<0.073 U
Total Cu	µg/L	0.081	0.269	1.27	0.696	15.4
Dissolved Fe	µg/L	20	67	<20 U	85	65 J
Total Fe	µg/L	22	74	405	226	386
Dissolved K	mg/L	0.106	0.354	0.795	1.41	1.22
Total K	mg/L	0.118	0.393	0.877	1.44	1.26
Dissolved Mg	mg/L	0.030	0.100	2.68	4.59	8.89
Total Mg	mg/L	0.033	0.111	2.82	4.71	9.03
Dissolved Mn	µg/L	4	14	<4 U	92	161
Total Mn	µg/L	4	16	6 J	94	163
Dissolved Na	mg/L	0.513	1.71	2.56	59.5	14.2
Total Na	mg/L	0.569	1.90	2.71	61.4	14.8
Dissolved Ni	µg/L	0.023	0.077	0.350	0.348	0.489
Total Ni	µg/L	0.026	0.085	1.06	0.729	0.979
Total Pb	µg/L	0.030	0.100	0.364	0.138	1.62
Dissolved Se	µg/L	0.288	0.959	<0.288 J	1.03	<0.288 J
Total Se	µg/L	0.067	0.220	0.329	5.86	2.26
Dissolved Sr	µg/L	1	4	67	753	747
Total Sr	µg/L	1	4	68	752	733
Total Tl	µg/L	0.002	0.007	0.003 J	0.003 J	<0.002 U
Dissolved Si	mg/L	0.130	0.434	4.63	5.30	6.27
Total Si	mg/L	0.144	0.482	4.34	4.88	6.00
Dissolved S	mg/L	0.138	0.460	4.55	<0.138 U	2.39
Total S	mg/L	0.153	0.511	3.91	<0.153 U	0.574
Dissolved P	mg/L	0.018	0.060	0.0235 J	<0.018 U	<0.018 U
Dissolved U	µg/L	0.002	0.007	0.794	0.016	0.676
Total U	µg/L	0.002	0.008	0.929	0.031	0.821
Methane	mg/L	0.0002	0.0014	<0.0002 U	<0.0002 U	7.790
Ethane	mg/L	0.0007	0.0028	<0.0007 U	0.000908 J	0.0545

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