

OHA/DEQ Drinking Water Source Monitoring Project - 2012

Detected Analytes* and Drinking Water/Health Standards

Sample Number DEQ Lab Report No. Sample Date Source Type			
Compound	Units	Reporting Limit	Drinking Water/Health Standards (see notes)
Pesticides by Liquid Chromatography/Tandem MS (DEQ Method 11-LAB-0031-SOP)			
DEET (insecticide)	µg/L	0.004 - 0.005	200 ppb (Derived‡)
Atrazine (herbicide)	µg/L	0.003 - 0.004	3 ppb (MCL)
Deisopropylatrazine (pesticide degradation product)	µg/L	0.003 - 0.004	3 ppb (MCL for parent compound)
Desethylatrazine (pesticide degradation product)	µg/L	0.003 - 0.008	3 ppb (MCL for parent compound)
Diuron (herbicide)	µg/L	0.003 - 0.004	2 ppb (HBSL)
Prometon (herbicide)	µg/L	0.003 - 0.004	230 ppb (RSL ⁺)
Simazine (herbicide)	µg/L	0.003 - 0.004	4 ppb (MCL)
Brominated Diphenyl Ethers by HRMS (EPA Method 1614A)			
PDBE-209	µg/L	0.001 - 0.002	Not available
various	µg/L	varies	varies
Chlorinated Biphenyl Congeners by HRMS (EPA Method 1668C)			
PCB-106	µg/L	0.00009	0.5 ppb for Total PCBs (MCL)
various	µg/L	varies	varies
Phenoxy Herbicides by GC/ECD Method 6640B			
	µg/L	varies	varies
Pharmaceuticals and Personal Care Products by LC/Tandem MS (DEQ Method 11-LAB-0031-SOP)			
	µg/L	varies	varies
Steroids and Hormones by HRMS (EPA Method 1698)			
beta-Sitosterol	µg/L	0.001 - 0.002	Not Available
Cholesterol	µg/L	0.024 - 0.05	Not Available
Coprostanol	µg/L	0.005 - 0.006	Not Available
Estrone	µg/L	0.002 - 0.003	Not Available (CCL)
Stigmastanol	µg/L	0.004 - 0.005	Not Available
Low Level Analysis of Semivolatile Organic Compounds by GC/MS (EPA Method 8270D)			
2,4-Dimethylphenol	µg/L	0.005 - 0.006	100 ppb (HBSL)
Butylbenzylphthalate	µg/L	0.001 - 0.002	14 ppb (RSL)
Naphthalene	µg/L	0.03 - 0.04	100 ppb (HBSL)
Phenanthrene	µg/L	0.003 - 0.004	Not Available
Low Level Analysis of Pesticides by GC/MS (EPA Method 8270D)			
Tebuthiuron (pesticide)	µg/L	0.02 - 0.03	500 ppb (LTHA)
various	µg/L	varies	varies
Dioxin and Furans by HRMS (EPA Method 1613)			
various	µg/L	varies	varies
Phenoxy Herbicides by Electron Capture Detector (Method SM 6640)			
various	µg/L	varies	varies
Volatile Organic Compounds by GC/MS (EPA Method 8260C)			
Chloromethane		0.600	190 ppb (RSL)
Metals and others by Method 200.8 except mercury by Method 245.1			
Arsenic	µg/L	.25	10 ppb (MCL)

Barium	µg/L	2.0	2000 ppb (MCL)
Chromium	µg/L	1.0	100 ppb (MCL)
Copper	µg/L	1.5	1300 ppb (TT-AL)
Iron	µg/L	150	300 ppb (SMCL)
Lead	µg/L	0.20	15 ppb (TT-AL)
Manganese	µg/L	2.0	50 ppb (SMCL)
Nickel	µg/L	1.0	100 ppb (HBSL)
Zinc	µg/L	5.0	5000 ppb (SMCL)
Microbiology (by the Public Health Laboratory)			
E Coli	MPN/ 100ml	1	(TT)
General Sample Parameters			
Hardness as CaCO ₃	mg/L	0.75	Not Available
Calcium	mg/L	0.2	Not Available
Magnesium	mg/l	0.05	Not Available
Field Turbidity	NTU	1	(TT)
Total Solids	mg/L	10	(TT)

Notes:

* A complete list of analytical methods, compounds, and typical detection limits is available in a separate table.

Drinking Water/Health Standards:

Where MCLs have not been developed, other values are listed to provide a health/risk-based context for the values that were measured in raw water.

(MCL) Primary Maximum Contaminant Level - MCLs are legally binding standards under the Safe Drinking Water Act for public water systems to meet (post-treatment)

(SMCL) Secondary Maximum Contaminant Level

(TT) / (TT-AL) Treatment Technique required – Action Level is given

(CCL) Currently unregulated - proposed for further evaluation on the federal Contaminant Candidate List

(Derived¥) - Derived from RfD (0.33 mg/kg-day) developed by Minnesota Department of Health using methods approved by the Agency for Toxic Substances and Disease Registry

(RSL[†]) - Regional Screening level developed by EPA (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/restap_sl_table_run_NOV2012.pdf)

(HHBP[#]) - Human Health Benchmark for Pesticide developed by EPA

(<http://iaspub.epa.gov/apex/pesticides/f?p=HHBP:home>)

(LTHA) - Lifetime health advisory developed by EPA

(<http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf>)

(HBSL) USGS/EPA Health-based Screening levels (Toccalino, P.L., Norman, J.E., Booth, N.L, and Zogorski, J.S., 2008, Health-based screening levels: A tool for evaluating what water-quality data may mean to human health: U.S. Geological Survey, National Water-Quality Assessment Program, accessed October 6, 2008 at <http://water.usgs.gov/nawqa/HBSL/>)

OHA/DEQ Drinking Water Source Monitoring Project - 2012
Detected Analytes* for Surface Water Samples and Drinking Water/Health Standards

Station Number Sample Number DEQ Lab Report No. Sample Date Source Type				37137 1211017-02 1211017 10-Jul-12 Surface water	37139 1211015-02 1211015 9-Jul-12 Surface water	37148 1211012-01 1211012 10-Jul-12 Surface water	37144 1211017-01 1211017 10-Jul-12 Surface water	37143 1211015-01 1211015 9-Jul-12 Surface water	37147 1211017-03 1211017 10-Jul-12 Surface water	37145 1211012-02 1211012 10-Jul-12 Surface water	37145 1211012-03 1211012 10-Jul-12 Surface water
Compound	Units	Reporting Limit	Drinking Water/Health Standards (see notes)	Alderwood Water Development Co. PWS 00304 Woahink Lake	City of Bandon PWS 00074 Ferry Creek - Geiger Creek Blend	City of Vernonia PWS 00922 Rock Creek	Lakeside Water District PWS 00463 Eel Lake	Langlois Water District PWS 00466 Floras Creek	South Coast Water District PWS 00302 Silcoos Lake	City of Seaside PWS 00799 Necanicum River lower intake at Pearson Point	City of Seaside PWS 00799 Necanicum River lower intake at Pearson Point (field duplicate)
Pesticides by Liquid Chromatography/Tandem MS (DEQ Method 11-LAB-0031-SOP)											
DEET (insecticide)	µg/L	0.004 - 0.005	200 ppb (Derived%)	ND	ND	ND	0.0052 (FBK::C)	ND	0.0053 (FBK::C)	0.00487 (FBK::C)	ND
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Brominated Diphenyl Ethers by HRMS (EPA Method 1614A)											
PDBE-209	µg/L	0.001 - 0.002	Not available	ND	ND	0.0131	ND	ND	ND	0.0037	ND
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Biphenyl Congeners by HRMS (EPA Method 1668C)											
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Phenoxy Herbicides by GC/ECD Method 6640B											
	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Pharmaceuticals and Personal Care Products by Liquid Chromatography/Tandem MS (DEQ Method 11-LAB-0031-SOP)											
	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Steroids and Hormones by HRMS (EPA Method 1698)											
beta-Sitosterol	µg/L	0.001 - 0.002	Not Available	0.622	Void**	0.599	1.23 (SU3::B)	0.354	1.34	0.316 (CV1::B)	Void**
Cholesterol	µg/L	0.001 - 0.002	Not Available	0.989	Void**	0.765	1.78	0.429	1.8	0.272	0.272 (SU3::B)
Coprostanol	µg/L	0.005 - 0.006	Not Available	0.00366	Void**	0.042	0.00605	0.00965	0.00827	0.0152 (FDU1::B)	FDU1::B
Stigmastanol	µg/L	0.004 - 0.005	Not Available	0.099	Void**	0.156	0.0962	0.0426	0.137	0.0432	Void**
Low Level Analysis of Semivolatile Organic Compounds by GC/MS (EPA Method 8270D)											
2,4-Dimethylphenol	µg/L	0.005 - 0.006	100 ppb (HBSL)	0.0148 (FBK1::B SU2::B)	0.0113 (FBK3::C SU2::B)	0.00687 (FBK3::C CV2::B SU2::B)	0.0196 (FBK1::B SU2::B)	0.00897 (FBK3::C)	0.0146 (FBK1::B, SU2::B)	0.00628 (FBK3::C, SU2::B, CV2::B)	0.00699 (FBK3::C, SU2::B, CV2::B)
Naphthalene	µg/L	0.03 - 0.04	100 ppb (HBSL)	0.0548 (FBK3::C)	0.0642 (FBK3::C MS3::B)	ND	ND	ND	0.0857 (FBK3::C)	ND	ND
Phenanthrene	µg/L	0.003 - 0.004	Not Available	0.00475 (FBK3::C)	0.00327 (FBK3::C)	ND	0.00558 (FBK3::C)	0.00559 (FBK3::C)	0.00821 (FBK1::B)	0.0053 (FBK3::C)	0.00567 (FBK3::C)
Low Level Analysis of Pesticides by GC/MS (EPA Method 8270D)											
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Dioxin and Furans by HRMS (EPA Method 1613)											
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Phenoxy Herbicides by Electron Capture Detector (Method SM 6640)											
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds by GC/MS (EPA Method 8260C)											
Chloromethane		0.600	190 ppb (RSL)	0.670 (BK2::C)	0.610 (BK2::C)	0.660 (BK2::C)	0.670 (BK2::C)	0.610 (BK2::C)	0.780 (BK2::C)	0.670 (BK2::C)	0.810 (BK2::C)
Metals and others by Method 200.8 except mercury by Method 245.1											
Arsenic	µg/L	.25	10 ppb (MCL)	ND	0.28	0.28	0.35	0.37	ND	ND	ND
Barium	µg/L	2.0	2000 ppb (MCL)	9.75	12.7	3.19	6.98	34.6	9.95	5.62	5.56
Copper	µg/L	1.5	1300 ppb (TT-AL)	2.55	ND	ND	ND	ND	ND	ND	ND
Iron	µg/L	150	300 ppb (SMCL)	ND	651	269	159	ND	206	ND	ND
Lead	µg/L	0.20	15 ppb (TT-AL)	2.30	ND	ND	ND	ND	ND	ND	ND
Manganese	µg/L	2.0	50 ppb (SMCL)	11.2	13.8	9.79	11.8	12.0	7.01	7.47	7.36
Nickel	µg/L	1.0	100 ppb (HBSL)	ND	1.54	ND	ND	3.48	ND	ND	ND

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Microbiology (by the Public Health Laboratory)											
E Coli	MPN/ 100ml	1	(TT)	ND	ND	83	ND	ND	ND	22	23
General Sample Parameters											
Hardness as CaCO3	mg/L	0.75	Not Available	9.19	15.4	21.2	12.6	41.9	12.6	12.6	12.5
Calcium	mg/L	0.2	Not Available	1.72	2.62	6.14	2.51	9.74	2.97	2.84	2.8
Magnesium	mg/l	0.05	Not Available	1.19	2.16	1.42	1.53	4.27	1.25	1.34	1.33
Field Turbidity	NTU	1	(TT)	1	3	1	1	1	2	1	ND
Total Solids	mg/L	10	(TT)	46.0	84.0	63.0	71.0	72.0	59	45	49

Notes

* A complete list of analytical methods, compounds, and typical detection limits is available in the Analytical Report

Void - Analysis of Steroids and Hormones are VOID and not available for this sample**

BK2::C - Analyte found in the method blank. The blank result is > 1/2 of the sample concentration.

CV1::B - CCV biased high. The sample results may also be biased high.

CV2::B - CV biased low. The sample results may also be biased low.

FBK1::B - Analyte found in the field (transfer, transport, or equipment) blank. Sample result may be biased high.

FBK3::C - Analyte found in the field (transfer, transport, or equipment) blank. The blank result is > 1/2 of the sample concentration.

FDU1::B - Field primary and field duplicate exceeds control limits.

MS3::B - Matrix Spike/ Matrix Spike Duplicate failed precision criteria.

SU2::B - Sample results may be biased due to high surrogate recovery.

SU3::B - The labeled compound recovery is less than ½ the lower control limit; the result for the target analyte is estimated.

Drinking Water/Health Standards:

Where MCLs have not been developed, other values are listed to provide a health/risk-based context for the values that were measured in raw water.

(MCL) Primary Maximum Contaminant Level - MCLs are legally binding standards under the Safe Drinking Water Act for public water systems to meet (post-treatment)

(SMCL) Secondary Maximum Contaminant Level

(TT) / (TT-AL) Treatment Technique required – Action Level is given

(CCL) Currently unregulated - proposed for further evaluation on the federal Contaminant Candidate List

(Derived#) - Derived from RfD (0.33 mg/kg-day) developed by Minnesota Department of Health using methods approved by the Agency for Toxic Substances and Disease Registry

(RSL*) - Regional Screening level developed by EPA (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/restap_sl_table_run_NOV2012.pdf)

(HHBP#) - Human Health Benchmark for Pesticide developed by EPA (<http://iaspub.epa.gov/apex/pesticides/f?p=HHBP:home>)

(LTHA) - Lifetime health advisory developed by EPA (<http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf>)

(HBSL) USGS/EPA Health-based Screening levels (Toccalino, P.L., Norman, J.E., Booth, N.L, and Zogorski, J.S., 2008, Health-based screening levels: A tool for evaluating what water-quality data may mean to human health: U.S. Geological Survey, National Water-Quality Assessment Program, accessed October 6, 2008 at <http://water.usgs.gov/nawqa/HBSL/>)

OHA/DEQ Drinking Water Source Monitoring Project - 2012
Detected Analytes* for Groundwater Samples and Drinking Water/Health Standards

Station Number Sample Number DEQ Lab Report No. Sample Date Source Type County				15289 1211010-01 1211010 19-Jun-12 Groundwater Malheur Annex Elem. PWS 90889 at 402 Annex Road (MAL172)	37140 1211002-01 1211002 9-Jul-12 Groundwater Clackamas Cottrell Elementary PWS 90528 Well	37146 1211014-03 1211014 10-Jul-12 Groundwater Lane Seavey Loop PWS 00289 Well	37138 1211014-02 1211014 10-Jul-12 Groundwater Lane Applewood MHP PWS 00840 Well	37141 1211014-01 1211014 10-Jul-12 Groundwater Benton Corvallis Waldrof Assn (formerly Fairplay Elem.) PWS 93711 Well	37142 1211018-01 1211018 12-Jul-12 Groundwater Jackson Fern Valley Estates PWS 00514 Well #3	37149 1211011-01 1211011 9-Jul-12 Groundwater Umatilla The Oasis PWS 91247 Well
Compound	Units	Reporting Limit	Drinking Water/Health Standards (see notes)							
Pesticides by Liquid Chromatography/Tandem MS (DEQ Method 11-LAB-0031-SOP)										
DEET (insecticide)	µg/L	0.004 - 0.005	200 ppb (Derived¥)	ND	ND	ND	ND	ND	0.00501 (FBK3::C)	ND
Atrazine (herbicide)	µg/L	0.003 - 0.004	3 ppb (MCL)	ND	ND	ND	ND	0.0758	ND	ND
Deisopropylatrazine (pesticide degradation product)	µg/L	0.003 - 0.004	3 ppb (MCL for parent compound)	ND	ND	ND	ND	0.0457	ND	ND
Desethylatrazine (pesticide degradation product)	µg/L	0.007 - 0.008	3 ppb (MCL for parent compound)	ND	ND	0.00633	ND	0.399	ND	ND
Diuron (herbicide)	µg/L	0.003 - 0.004	2 ppb (HBSL)	ND	ND	ND	ND	0.0504	ND	ND
Prometon (herbicide)	µg/L	0.003 - 0.004	230 ppb (RSL*)	0.0181	ND	ND	ND	ND	ND	ND
Simazine (herbicide)	µg/L	0.003 - 0.004	4 ppb (MCL)	0.0114	ND	ND	ND	ND	ND	ND
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Low Level Analysis of Pesticides by GC/MS (EPA Method 8270D)										
Tebuthiuron (pesticide)	µg/L	0.002 - 0.003	500 ppb (LTHA)	ND	ND	ND	ND	ND	0.0285	ND
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Brominated Diphenyl Ethers by HRMS (EPA Method 1614A)										
PDBE-209	µg/L	0.001 - 0.002	Not available	ND	ND	0.00555	ND	ND	ND	ND
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Chlorinated Biphenyl Congeners by HRMS (EPA Method 1668C)										
PCB-106	µg/L	0.000145	0.5 ppb for Total PCBs (MCL)	ND	0.000119 (BK9::C)	ND	ND	ND	ND	ND
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Phenoxy Herbicides by GC/ECD Method 6640B										
	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Pharmaceuticals and Personal Care Products by Liquid Chromatography/Tandem MS (DEQ Method 11-LAB-0031-SOP)										
	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Steroids and Hormones by HRMS (EPA Method 1698)										
beta-Sitosterol	µg/L	0.001 - 0.002	Not Available	ND	0.00705 (BK1::B CV1::B)	0.00471 (BK2::C CV1::B SU3::B)	Void**	Void**	ND	0.0081 (BK1::B CV1::B SU3::B)
Estrone	µg/L	0.002 - 0.003	Not Available (CCL)	ND	0.00204	ND	Void**	Void**	ND	ND
Low Level Analysis of Semivolatile Organic Compounds by GC/MS (EPA Method 8270D)										
2,4-Dimethylphenol	µg/L	0.005 - 0.006	100 ppb (HBSL)	0.0102 (FBK3::C CV2::B)	ND	0.0067 (FBK3::C SU2::B CV2::B)	0.00671 (FBK3::C CV2::B)	ND	0.00972 (FBK3::C SU2::B)	0.00824 (FBK3::C SU2::B)
Butylbenzylphthalate	µg/L	0.001 - 0.002	14 ppb (RSL)	ND	ND	0.383	ND	ND	ND	ND
Naphthalene	µg/L	0.03 - 0.04	100 ppb (HBSL)	ND	0.0761 (FBK3::C)	ND	0.0446 (FBK3::C)	0.148 (FBK3::C MS3::B)	0.0385 (FBK3::C)	0.0471 (FBK3::C)
Phenanthrene	µg/L	0.003 - 0.004	Not Available	ND	ND	0.00316 (FBK3::C)	0.00409 (FBK3::C)	0.00459 (FBK3::C)	0.00346 (FBK3::C)	ND
Dioxin and Furans by HRMS (EPA Method 1613)										
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Phenoxy Herbicides by Electron Capture Detector (Method SM 6640)										
various	µg/L	varies	varies	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds by GC/MS (EPA Method 8260C)										
Chloromethane		0.600	190 ppb (RSL)	ND	ND	ND	ND	0.610 (BK2::C)	0.720 (BK2::C)	ND
Metals and others by Method 200.8 except mercury by Method 245.1										

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Compound	Units	Reporting Limit	Drinking Water/Health Standards (see notes)							
Arsenic	µg/L	.25	10 ppb (MCL)	11.4	ND	0.62	0.65	0.68	0.58	0.25
Barium	µg/L	2.0	2000 ppb (MCL)	121	ND	5.6	4.32	7.57	8.31	ND
Chromium	µg/L	1.0	100 ppb (MCL)	ND	1.94	ND	ND	3.81	ND	ND
Copper	µg/L	1.5	1300 ppb (TT-AL)	3.8	ND	2.58	1.83	45.8	2.09	21.4
Iron	µg/L	150	300 ppb (SMCL)	ND	ND	ND	253	ND	ND	ND
Lead	µg/L	0.20	15 ppb (TT-AL)	ND	ND	ND	0.24	2.98	0.2	0.41
Manganese	µg/L	2.0	50 ppb (SMCL)	ND	ND	ND	23.7	ND	ND	ND
Zinc	µg/L	5.0	5000 ppb (SMCL)	5.06	306	ND	7.48	19.1	10.2	12
Microbiology (by the Public Health Laboratory)										
E Coli	MPN/ 100ml	1	(TT)	ND	ND	ND	2	ND	ND	ND
General Sample Parameters										
Hardness as CaCO3	mg/L	0.75	Not Available	380	44.8	80.9	94.7	111	105	325
Calcium	mg/L	0.2	Not Available	97.4	9.25	18.9	19.6	22.2	31.3	ND
Magnesium	mg/l	0.05	Not Available	33.2	5.26	8.16	11.2	13.5	6.63	ND
Field Turbidity	NTU	1	(TT)	ND	3	ND	3	ND	ND	ND
Total Solids	mg/L	10	(TT)	803	241	134	184	244	311	170

Notes:

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NA - Analysis of Steroids and Hormones are VOID and not available for this sample**

BK1::B - Analyte found in the method blank. Sample result may be biased high.

BK2::C - Analyte found in the method blank. The blank result is > 1/2 of the sample concentration.

BK9::C - Analyte found in the method blank below LOQ. The blank result is > 1/2 of the sample concentration.

CV1::B - CCV biased high. The sample results may also be biased high.

CV2::B - CV biased low. The sample results may also be biased low.

FBK3::C - Analyte found in the field (transfer, transport, or equipment) blank. The blank result is > 1/2 of the sample concentration.

MS3::B - Matrix Spike/ Matrix Spike Duplicate failed precision criteria.

SU2::B - Sample results may be biased due to high surrogate recovery.

SU3::B - The labeled compound recovery is less than ½ the lower control limit; the result for the target analyte is estimated.

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(Derived) - Derived from RfD (0.33 mg/kg-day) developed by Minnesota Department of Health using methods approved by the Agency for Toxic Substances and Disease Registry

(RSL*) - Regional Screening level developed by EPA (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/restap_sl_table_run_NOV2012.pdf)

(HHBP#) - Human Health Benchmark for Pesticide developed by EPA (<http://iaspub.epa.gov/apex/pesticides/f?p=HHBP:home>)

(LTHA) - Lifetime health advisory developed by EPA (<http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf>)

(HBSL) USGS/EPA Health-based Screening Levels (Toccalino, P.L., Norman, J.E., Booth, N.L, and Zogorski, J.S., 2008, Health-based screening levels: A tool for evaluating what water-quality data may mean to human health: U.S. Geological Survey, National Water-Quality Assessment Program, accessed October 6, 2008 at <http://water.usgs.gov/nawqa/HBSL/>)