TABLE 2.18
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River and Wetlands[a]

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
75-35-4	1,1-Dichloroethene	0.007	J	0.007	J	mg/Kg	SD-009	1 / 26	0.006 - 0.016	0.007	N/A	0.054 C	N/A	N/A	NO	BSL
78-93-3	2-Butanone	0.32	J	0.32	J	mg/Kg	SD-024	1 / 27	0.006 - 0.088	0.32	N/A	730 N	N/A	N/A	NO	BSL
67-64-1	Acetone	0.006	J	0.24	J	mg/Kg	SD-023	6 / 30	0.006 - 0.12	0.24	N/A	160 N	N/A	N/A	NO	BSL
75-09-2	Methylene chloride	0.002	J	0.004	J	mg/Kg	SD-035	5 / 26	0.006 - 0.016	0.004	N/A	8.9 C	N/A	N/A	NO	BSL
108-88-3	Toluene	0.002	J	0.34	J	mg/Kg	SD-039	4 / 27	0.006 - 0.016	0.34	N/A	52 N	N/A	N/A	NO	BSL
91-57-6	2-Methylnaphthalene	0.069	J	0.069	J	mg/Kg	SD-037	1 / 30	0.12 - 5.7	0.069	N/A	5.6 N	N/A	N/A	NO	BSL
106-47-8	4-Chloroaniline	0.46	J	0.46	J	mg/Kg	SD-009	1 / 30	0.12 - 5.7	0.46	N/A	24 N	N/A	N/A	NO	BSL
106-44-5	4-Methylphenol	0.033	J	1.2		mg/Kg	SD-017	9 / 30	0.12 - 5.7	1.2	N/A	31 N	N/A	N/A	NO	BSL
83-32-9	Acenaphthene	0.057	J	0.082	J	mg/Kg	SD-037	4 / 30	0.12 - 5.7	0.082	N/A	370 N	N/A	N/A	NO	BSL
208-96-8	Acenaphthylene	0.027	J	0.77	J	mg/Kg	SD-025	8 / 30	0.12 - 0.75	0.77	N/A	5.6 N	N/A	N/A	NO	BSL
120-12-7	Anthracene	0.043	J	2.7	J	mg/Kg	SD-025	11 / 30	0.12 - 0.75	2.7	N/A	2200 N	N/A	N/A	NO	BSL
100-52-7	Benzaldehyde	0.028	J	0.67	J	mg/Kg	SD-023	17 / 30	0.24 - 5.7	0.67	N/A	610 N	N/A	N/A	NO	BSL
56-55-3	Benzo(a)anthracene	0.045	J	5.4	J	mg/Kg	SD-025	19 / 30	0.12 - 0.75	5.4	N/A	0.62 C	N/A	N/A	YES	ASL
50-32-8	Benzo(a)pyrene	0.043	J	6.5		mg/Kg	SD-025	20 / 30	0.12 - 0.75	6.5	N/A	0.062 C	N/A	N/A	YES	ASL
205-99-2	Benzo(b)fluoranthene	0.037	J	3.8	J	mg/Kg	SD-025	20 / 30	0.12 - 0.75	3.8	N/A	0.62 C	N/A	N/A	YES	ASL
191-24-2	Benzo(g,h,i)perylene	0.029	J	1.2	J	mg/Kg	SD-025	11 / 30	0.12 - 0.75	1.2	N/A	5.6 N	N/A	N/A	NO	BSL
207-08-9	Benzo(k)fluoranthene	0.036	J	3.4	J	mg/Kg	SD-025	20 / 30	0.12 - 0.75	3.4	N/A	6.2 C	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.043	J	2.6	J	mg/Kg	SD-025	15 / 31	0.12 - 0.74	2.6	N/A	35 C	N/A	N/A	NO	BSL
85-68-7	Butylbenzylphthalate	0.032	J	0.032	J	mg/Kg	SD-032	1 / 30	0.12 - 5.7	0.032	N/A	1200 N	N/A	N/A	NO	BSL
86-74-8	Carbazole	0.031	J	0.22	J	mg/Kg	SD-015	5 / 30	0.12 - 5.7	0.22	N/A	24 C	N/A	N/A	NO	BSL
218-01-9	Chrysene	0.046	J	5.3	J	mg/Kg	SD-025	20 / 30	0.12 - 0.75	5.3	N/A	62 C	N/A	N/A	NO	BSL
84-74-2	Di-n-butylphthalate	0.062	J	0.062	J	mg/Kg	SD-042	1 / 30	0.12 - 5.7	0.062	N/A	610 N	N/A	N/A	NO	BSL
53-70-3	Dibenz(a,h)anthracene	0.037	J	0.86	J	mg/Kg	SD-025	9 / 30	0.12 - 0.75	0.86	N/A	0.062 C	N/A	N/A	YES	ASL
132-64-9	Dibenzofuran	0.051	J	0.068	J	mg/Kg	SD-037	4 / 30	0.12 - 5.7	0.068	N/A	29 N	N/A	N/A	NO	BSL
84-66-2	Diethylphthalate	0.032	J	0.041	J	mg/Kg	SD-035	3 / 30	0.12 - 5.7	0.041	N/A	4900 N	N/A	N/A	NO	BSL
206-44-0	Fluoranthene	0.073	J	8.5		mg/Kg	SD-025	23 / 30	0.12 - 0.75	8.5	N/A	230 N	N/A	N/A	NO	BSL
86-73-7	Fluorene	0.069	J	0.8	J	mg/Kg	SD-025	5 / 30	0.12 - 0.75	0.8	N/A	260 N	N/A	N/A	NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	0.026	J	2.5	J	mg/Kg	SD-025	16 / 30	0.12 - 0.75	2.5	N/A	0.62 C	N/A	N/A	YES	ASL
91-20-3	Naphthalene	0.038	J	0.13	J	mg/Kg	SD-037	2 / 30	0.12 - 5.7	0.13	N/A	5.6 N	N/A	N/A	NO	BSL
87-86-5	Pentachlorophenol	0.048	J	0.2	J	mg/Kg	SD-034	2 / 25	0.29 - 14	0.2	N/A	3 C	N/A	N/A	NO	BSL
85-01-8	Phenanthrene	0.026	J	10		mg/Kg	SD-025	18 / 30	0.12 - 0.75	10	N/A	5.6 N	N/A	N/A	YES	ASL
129-00-0	Pyrene	0.065	J	14		mg/Kg	SD-025	25 / 30	0.12 - 0.75	14	N/A	230 N	N/A	N/A	NO	BSL

TABLE 2.18
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River and Wetlands*

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
72-54-8	4,4'-DDD	0.0042	J	0.034	J	mg/Kg	SD-025	5 / 30	0.0032 - 0.0076	0.034	N/A	2.4 C	N/A	N/A	NO	BSL
72-55-9	4,4'-DDE	0.0024	J	0.048		mg/Kg	SD-025	14 / 30	0.0032 - 0.0076	0.048	N/A	1.7 C	N/A	N/A	NO	BSL
50-29-3	4,4'-DDT	0.007		0.007		mg/Kg	SD-022	1 / 30	0.0032 - 0.0076	0.007	N/A	1.7 C	N/A	N/A	NO	BSL
309-00-2	Aldrin	0.0032	J	0.0066	J	mg/Kg	SD-025	3 / 30	0.0016 - 0.0039	0.0066	N/A	0.029 C	N/A	N/A	NO	BSL
319-84-6	alpha-BHC	0.0015	J	0.0051	J	mg/Kg	SD-043	8 / 30	0.0016 - 0.0039	0.0051	N/A	0.09 C	N/A	N/A	NO	BSL
5103-71-9	alpha-Chlordane	0.00092	J	0.0075	J	mg/Kg	SD-025	5 / 30	0.0016 - 0.0039	0.0075	N/A	1.6 C	N/A	N/A	NO	BSL
53469-21-9	Aroclor 1242	0.013	J	0.18	J	mg/Kg	SD-025	6 / 16	0.04 - 0.076	0.18	N/A	0.22 C	N/A	N/A	NO	BSL
11097-69-1	Aroclor 1254	0.066	J	0.84		mg/Kg	SD-025	5 / 16	0.04 - 0.076	0.84	N/A	0.22 C	N/A	N/A	YES	ASL
11096-82-5	Aroclor 1260	0.045	J	0.27		mg/Kg	SD-036	3 / 16	0.043 - 0.076	0.27	N/A	0.22 C	N/A	N/A	YES	ASL
319-85-7	beta-BHC	0.0015	J	0.0018	J	mg/Kg	SD-019	3 / 30	0.0016 - 0.0039	0.0018	N/A	0.32 C	N/A	N/A	NO	BSL
319-86-8	delta-BHC	0.0018	J	0.0024	J	mg/Kg	SD-024	3 / 30	0.0016 - 0.0039	0.0024	N/A	0.09 C	N/A	N/A	NO	BSL
60-57-1	Dieldrin	0.0021	J	0.0049	J	mg/Kg	SD-010	9 / 30	0.0032 - 0.0076	0.0049	N/A	0.03 C	N/A	N/A	NO	BSL
1031-07-8	Endosulfan sulfate	0.0028	J	0.0059	J	mg/Kg	SD-025	5 / 30	0.0032 - 0.0076	0.0059	N/A	37 N	N/A	N/A	NO	BSL
72-20-8	Endrin	0.0023	J	0.014	J	mg/Kg	SD-036	5 / 30	0.0032 - 0.0076	0.014	N/A	1.8 N	N/A	N/A	NO	BSL
7421-36-3	Endrin aldehyde	0.0039	J	0.0039	J	mg/Kg	SD-019	1 / 30	0.0032 - 0.0076	0.0039	N/A	1.8 N	N/A	N/A	NO	BSL
53494-70-5	Endrin ketone	0.0013	J	0.0082	J	mg/Kg	SD-034	2 / 30	0.0032 - 0.0076	0.0082	N/A	1.8 N	N/A	N/A	NO	BSL
58-89-9	gamma-BHC(Lindane)	0.00089	J	0.0039	J	mg/Kg	SD-012	3 / 30	0.0016 - 0.0039	0.0039	N/A	0.44 C	N/A	N/A	NO	BSL
5103-74-2	gamma-Chlordane	0.00082	J	0.005	J	mg/Kg	SD-025	11 / 30	0.0016 - 0.0039	0.005	N/A	1.6 C	N/A	N/A	NO	BSL
76-44-8	Heptachlor	0.0012	J	0.0027	J	mg/Kg	SD-021	6 / 30	0.0016 - 0.0039	0.0027	N/A	0.11 C	N/A	N/A	NO	BSL
1024-57-3	Heptachlor epoxide	0.0011	J	0.0011	J	mg/Kg	SD-038	1 / 30	0.0016 - 0.0039	0.0011	N/A	0.053 C	N/A	N/A	NO	BSL
						mg/Kg										
1336-36-3	PCB TEQ	9.7E-07		4.1E-02		mg/Kg	SD-025	21 / 31	-	4.1E-02	N/A	3.9E-06 C	N/A	N/A	YES	ASL
1746-01-6	Dioxin TEQ	7.0E-09	J	7.3E-05	J	mg/Kg	SD-025	28 / 31	-	7.3E-05	N/A	3.9E-06 C	N/A	N/A	YES	ASL
7429-90-5	Aluminum	3080		14000	J	mg/Kg	SD-024	31 / 31	-	14000	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.61	J	1.2	J	mg/Kg	SD-011	2 / 31	0.089 - 1.6	1.2	N/A	3.1 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	1.4		14.2		mg/Kg	SD-018	21 / 31	0.92 - 5.5	14.2	N/A	0.39 C	N/A	N/A	YES	ASL
7440-39-3	Barium	13.1		109		mg/Kg	SD-014	31 / 31	-	109	N/A	540 N	N/A	N/A	NO	BSL
7440-41-7	Beryllium	0.13	J	0.61	J	mg/Kg	SD-018	21 / 31	0.16 - 0.38	0.61	N/A	15 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.19		3.2		mg/Kg	SD-019	17 / 31	0.05 - 0.42	3.2	N/A	3.7 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	1180		23200	J	mg/Kg	SD-011	31 / 31	-	23200	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	6.4		108	J	mg/Kg	SD-019	31 / 31	-	108	N/A	30 C	N/A	N/A	YES	ASL
7440-48-4	Cobalt	4.4	J	18.1	J	mg/Kg	SD-016	31 / 31	-	18.1	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	8.6	J	174	J	mg/Kg	SD-025	30 / 31	39.7 - 39.7	174	N/A	N/A	N/A	N/A	NO	NTX
57-12-5	Cyanide	0.022		1	J	mg/Kg	SD-011	16 / 31	0.016 - 1.6	1	N/A	1.1 N	N/A	N/A	NO	BSL

TABLE 2.18
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River and Wetlands[a]

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
7439-89-6	Iron	7800		40900	J	mg/Kg	SD-018	31 / 31	-	40900	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	6.2		94.8	J	mg/Kg	SD-033	31 / 31	-	94.8	N/A	400 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	2440		10760		mg/Kg	SD-024	31 / 31	-	10760	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	179		2790	J	mg/Kg	SD-014	31 / 31	-	2790	N/A	180 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.024		2.3	J	mg/Kg	SD-025	18 / 27	0.06 - 0.74	2.3	N/A	0.61 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	6.9		31.3		mg/Kg	SD-018	31 / 31	-	31.3	N/A	160 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	123	J	1120		mg/Kg	SD-032	27 / 31	225 - 408	1120	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.78	J	2.3	J	mg/Kg	SD-012	4 / 31	0.13 - 1.2	2.3	N/A	39 N	N/A	N/A	NO	BSL
7440-22-4	Silver	0.13	J	5.8	J	mg/Kg	SD-019	21 / 31	0.05 - 0.28	5.8	N/A	39 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	167	J	411	J	mg/Kg	SD-012	12 / 31	16.9 - 290	411	N/A	N/A	N/A	N/A	NO	NUT
7440-28-0	Thallium	0.034	J	0.155		mg/Kg	SD-024	9 / 31	0.029 - 3.4	0.155	N/A	0.52 N	N/A	N/A	NO	BSL
7440-62-2	Vanadium	4.1		16.5		mg/Kg	SD-023	27 / 31	5.1 - 6.4	16.5	N/A	55 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	43.3	J	197	J	mg/Kg	SD-023	31 / 31	-	197	N/A	2300 N	N/A	N/A	NO	BSL

[a] Data presented are from sediment samples SD-009, SD-010, SD-011, SD-012, SD-013, SD-014, SD-015, SD-016, SD-017, SD-018, SD-019, SD-020, SD-021, SD-022, SD-023, SD-024 and its duplicate, SD-025, SD-030, SD-031 and its duplicate, SD-032 and its duplicate, SD-033, SD-034, SD-035, SD-036, SD-037, SD-038, SD-039, SD-040, SD-041, SD-042, and SD-043.

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 1, 1999b.
The most conservative PRG for all noncarcinogenic PAHs has been used for 2-methylnaphthalene, acenaphthylene, benzo(g,h,i)perylene and phenanthrene.
The most conservative PRG for all BHCs has been used for delta-BHC.
PRG for endosulfan has been used for endosulfan sulfate.
PRG for endrin has been used for endrin aldehyde and endrin ketone.
PRG for chromium VI used for chromium.
PRG for mercury and compounds used for mercury.
PRG for Dioxin TEQ has been used for PCB TEQ.
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.19
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-001)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
117-81-7	Bis(2-ethylhexyl)phthalate	0.7	J	0.7	J	ug/L	RW-001	1 / 2	2 - 2	0.7	N/A	4.8 C	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
	No Dioxins Detected															
7429-90-5	Aluminum	7.3	J	7.3	J	ug/L	RW-001	1 / 2	5.1 - 5.1	7.3	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	1.6	J	1.6	J	ug/L	RW-001	1 / 2	0.42 - 0.42	1.6	N/A	1.5 N	N/A	N/A	YES	ASL
7440-39-3	Barium	36.7	J	40		ug/L	RW-001	2 / 2	-	40	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	94200	J	99800		ug/L	RW-001	2 / 2	-	99800	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	42.6	J	64.6		ug/L	RW-001	2 / 2	-	64.6	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	63.3	J	66.7		ug/L	RW-001	2 / 2	-	66.7	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	8370		9430		ug/L	RW-001	2 / 2	-	9430	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	2.6	J	4.4		ug/L	RW-001	2 / 2	-	4.4	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.13	J	0.17	J	ug/L	RW-001	2 / 2	-	0.17	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.54	J	0.54	J	ug/L	RW-001	1 / 2	5 - 5	0.54	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	3590	J	4990		ug/L	RW-001	2 / 2	-	4990	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.3	J	2.5	J	ug/L	RW-001	2 / 2	-	2.5	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	56300		67700	J	ug/L	RW-001	2 / 2	-	67700	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	6	J	6.5		ug/L	RW-001	2 / 2	-	6.5	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.20
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-002)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
117-81-7	Bis(2-ethylhexyl)phthalate	1.5	J	1.5	J	ug/L	RW-002	1 / 2	2 - 2	1.5	N/A	4.8 C	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
	No Dioxins Detected															
7429-90-5	Aluminum	6.6	J	289.775	J	ug/L	RW-002	2 / 2	-	289.775	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.83	J	0.83	J	ug/L	RW-002	1 / 2	1.2 - 1.2	0.83	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	3		3		ug/L	RW-002	1 / 2	2.6 - 2.6	3	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	33.2	J	43.3		ug/L	RW-002	2 / 2	-	43.3	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	37300	J	44700		ug/L	RW-002	2 / 2	-	44700	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	15.8	J	29.3		ug/L	RW-002	2 / 2	-	29.3	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	16.6	J	526.25	J	ug/L	RW-002	2 / 2	-	526.25	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.905	J	0.93		ug/L	RW-002	2 / 2	-	0.93	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	13750		15900		ug/L	RW-002	2 / 2	-	15900	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	18.3		87.65	J	ug/L	RW-002	2 / 2	-	87.65	N/A	88 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.22	J	0.22	J	ug/L	RW-002	1 / 2	5 - 5	0.22	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	1655	J	2840		ug/L	RW-002	2 / 2	-	2840	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.205	J	1.205	J	ug/L	RW-002	1 / 2	0.68 - 0.68	1.205	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	19550	J	23800		ug/L	RW-002	2 / 2	-	23800	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	18.05		22.3		ug/L	RW-002	2 / 2	-	22.3	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.21
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-003)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
117-81-7	Bis(2-ethylhexyl)phthalate	1	J	12		ug/L	RW-003	2 / 2	-	12	N/A	4.8 C	N/A	N/A	YES	ASL
	No PCB/Pesticides Detected															
1746-01-6	Dioxin TEQ	4.5E-07	J	4.5E-07	J	ug/L	RW-003	1 / 1	-	4.5E-07	N/A	4.5E-07 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	6.7	J	6.7	J	ug/L	RW-003	1 / 2	3.8 - 3.8	6.7	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.64	J	2	J	ug/L	RW-003	2 / 2	-	2	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	4.7		5	J	ug/L	RW-003	2 / 2	-	5	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	28.9		30.1	J	ug/L	RW-003	2 / 2	-	30.1	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	26400		27600	J	ug/L	RW-003	2 / 2	-	27600	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	1.2	J	3.5	J	ug/L	RW-003	2 / 2	-	3.5	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	170	J	198		ug/L	RW-003	2 / 2	-	198	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.7	J	0.7	J	ug/L	RW-003	1 / 2	0.26 - 0.26	0.7	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	9370		9510		ug/L	RW-003	2 / 2	-	9510	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	189	J	230		ug/L	RW-003	2 / 2	-	230	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.37		0.37		ug/L	RW-003	1 / 2	0.1 - 0.1	0.37	N/A	1.1 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	519	J	946	J	ug/L	RW-003	2 / 2	-	946	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	2620	J	2940		ug/L	RW-003	2 / 2	-	2940	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	11.4		13.6		ug/L	RW-003	2 / 2	-	13.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.22
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-004)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	RW-004	1 / 2	2 - 2	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
7440-36-0	Antimony	0.525	J	0.525	J	ug/L	RW-004	1 / 2	1.2 - 1.2	0.525	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	93.7		111		ug/L	RW-004	2 / 2	-	111	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	37750		43500	J	ug/L	RW-004	2 / 2	-	43500	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	1.19	J	2.4	J	ug/L	RW-004	2 / 2	-	2.4	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	1041.5		1410	J	ug/L	RW-004	2 / 2	-	1410	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.205	J	0.68	J	ug/L	RW-004	2 / 2	-	0.68	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	10225		11600		ug/L	RW-004	2 / 2	-	11600	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	177	J	237		ug/L	RW-004	2 / 2	-	237	N/A	88 N	N/A	N/A	YES	ASL
7440-09-7	Potassium	519	J	603	J	ug/L	RW-004	2 / 2	-	603	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	5855		6710	J	ug/L	RW-004	2 / 2	-	6710	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	4.6	J	9	J	ug/L	RW-004	2 / 2	-	9	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens). November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
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PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
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TABLE 2.23
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-005)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
	No SVOCs Detected															
	No PCB/Pesticides Detected															
	No Dioxins Detected															
7429-90-5	Aluminum	4.2	J	4.2	J	ug/L	RW-005	1 / 2	7 - 7	4.2	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.6	J	1.4	J	ug/L	RW-005	2 / 2	-	1.4	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	13.8		22	J	ug/L	RW-005	2 / 2	-	22	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	30200	J	40800		ug/L	RW-005	2 / 2	-	40800	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	24.5	J	65.5		ug/L	RW-005	2 / 2	-	65.5	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	15.9	J	15.9	J	ug/L	RW-005	1 / 2	25 - 25	15.9	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.66	J	0.97		ug/L	RW-005	2 / 2	-	0.97	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	4960		6330		ug/L	RW-005	2 / 2	-	6330	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	0.5	J	2.3	J	ug/L	RW-005	2 / 2	-	2.3	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.19	J	0.19	J	ug/L	RW-005	1 / 2	0.1 - 0.1	0.19	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.45	J	0.45	J	ug/L	RW-005	1 / 2	5 - 5	0.45	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	2310	J	4480		ug/L	RW-005	2 / 2	-	4480	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	12600		16300	J	ug/L	RW-005	2 / 2	-	16300	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	6.9	J	13.7		ug/L	RW-005	2 / 2	-	13.7	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
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ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
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N = Non-Carcinogenic
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TABLE 2.24
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-006)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
1634-04-4	Methyl tert-butyl ether	4.4		4.4		ug/L	RW-006	1 / 2	1 - 1	4.4	N/A	2 N	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	36		36		ug/L	RW-006	1 / 2	5 - 5	36	N/A	4.8 C	N/A	N/A	YES	ASL
	No PCB/Pesticides Detected															
1746-01-6	Dioxin TEQ	2.5E-08	J	2.5E-08	J	ug/L	RW-006	1 / 1	-	2.5E-08	N/A	4.5E-07 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	27.9	J	27.9	J	ug/L	RW-006	1 / 2	3.8 - 3.8	27.9	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	1	J	1.4	J	ug/L	RW-006	2 / 2	-	1.4	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	25.3		34.7	J	ug/L	RW-006	2 / 2	-	34.7	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	41200	J	48800		ug/L	RW-006	2 / 2	-	48800	N/A	N/A	N/A	N/A	NO	NUT
7440-48-4	Cobalt	0.15	J	0.15	J	ug/L	RW-006	1 / 2	2.5 - 2.5	0.15	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	45.4	J	53		ug/L	RW-006	2 / 2	-	53	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	42.2	J	42.2	J	ug/L	RW-006	1 / 2	25 - 25	42.2	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	1.7		2		ug/L	RW-006	2 / 2	-	2	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	7360		8710		ug/L	RW-006	2 / 2	-	8710	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	0.92	J	20.3		ug/L	RW-006	2 / 2	-	20.3	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.24		0.24		ug/L	RW-006	1 / 2	0.1 - 0.1	0.24	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.54	J	0.54	J	ug/L	RW-006	1 / 2	5 - 5	0.54	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	3650	J	9090		ug/L	RW-006	2 / 2	-	9090	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.75	J	1	J	ug/L	RW-006	2 / 2	-	1	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	18200	J	38700		ug/L	RW-006	2 / 2	-	38700	N/A	N/A	N/A	N/A	NO	NUT
7440-28-0	Thallium	1.4	J	1.4	J	ug/L	RW-006	1 / 1	-	1.4	N/A	0.24 N	N/A	N/A	YES	ASL
7440-66-6	Zinc	25.2		26.2		ug/L	RW-006	2 / 2	-	26.2	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

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TABLE 2.25
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-007)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
117-81-7	Bis(2-ethylhexyl)phthalate	0.8	J	0.8	J	ug/L	RW-007	1 / 2	2 - 2	0.8	N/A	4.8 C	N/A	N/A	NO	BSL
84-74-2	Di-n-butylphthalate	1	J	1	J	ug/L	RW-007	1 / 2	5 - 5	1	N/A	360 N	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
	No Dioxins Detected															
7429-90-5	Aluminum	10.2	J	10.2	J	ug/L	RW-007	1 / 2	3.8 - 3.8	10.2	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.48	J	1.9	J	ug/L	RW-007	2 / 2	-	1.9	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	0.49	J	0.49	J	ug/L	RW-007	1 / 2	0.69 - 0.69	0.49	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	136		182		ug/L	RW-007	2 / 2	-	182	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	58100		72600	J	ug/L	RW-007	2 / 2	-	72600	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	18.5		20.6	J	ug/L	RW-007	2 / 2	-	20.6	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	6	J	6	J	ug/L	RW-007	1 / 2	25 - 25	6	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.43	J	0.43	J	ug/L	RW-007	1 / 2	0.62 - 0.62	0.43	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	7340		9290		ug/L	RW-007	2 / 2	-	9290	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	34.9		47.4	J	ug/L	RW-007	2 / 2	-	47.4	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.37		0.37		ug/L	RW-007	1 / 2	0.1 - 0.1	0.37	N/A	1.1 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	589	J	596	J	ug/L	RW-007	2 / 2	-	596	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	2800		3370	J	ug/L	RW-007	2 / 2	-	3370	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	8.8	J	12.4		ug/L	RW-007	2 / 2	-	12.4	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.26
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-008)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
127-18-4	Tetrachloroethylene	1	J	1	J	ug/L	RW-008	1 / 2	1 - 1	1	N/A	1.1 C	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.5	J	0.5	J	ug/L	RW-008	1 / 2	2 - 2	0.5	N/A	4.8 C	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
	No Dioxins Detected															
7429-90-5	Aluminum	22.6	J	22.6	J	ug/L	RW-008	1 / 2	7.8 - 7.8	22.6	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	3.1		3.1		ug/L	RW-008	1 / 2	3.9 - 3.9	3.1	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	83.8		127		ug/L	RW-008	2 / 2	-	127	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	45300	J	57100		ug/L	RW-008	2 / 2	-	57100	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	3.2	J	16.5		ug/L	RW-008	2 / 2	-	16.5	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	22.5		110	J	ug/L	RW-008	2 / 2	-	110	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.92		0.99	J	ug/L	RW-008	2 / 2	-	0.99	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	12000		15000		ug/L	RW-008	2 / 2	-	15000	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	167	J	503		ug/L	RW-008	2 / 2	-	503	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.26		0.26		ug/L	RW-008	1 / 2	0.1 - 0.1	0.26	N/A	1.1 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	643	J	1210		ug/L	RW-008	2 / 2	-	1210	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	19400	J	39900		ug/L	RW-008	2 / 2	-	39900	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	5		5		ug/L	RW-008	1 / 2	5 - 5	5	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.27
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-009)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	3	J	3	J	ug/L	RW-009	1 / 3	2 - 5	3	N/A	61 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	RW-009	1 / 3	2 - 5	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
67-72-1	Hexachloroethane	1	J	1	J	ug/L	RW-009	1 / 3	2 - 5	1	N/A	4.8 C	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
1746-01-6	Dioxin TEQ	2.0E-07	J	2.0E-07	J	ug/L	RW-009	1 / 1		2.0E-07	N/A	4.5E-07 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	6.6	J	6.6	J	ug/L	RW-009	1 / 2	3.8 - 3.8	6.6	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.51	J	1.5	J	ug/L	RW-009	2 / 2	-	1.5	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	9.2	J	10		ug/L	RW-009	2 / 2	-	10	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	40700		42900	J	ug/L	RW-009	2 / 2	-	42900	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	15.3	J	18.8		ug/L	RW-009	2 / 2	-	18.8	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	8.9	J	8.9	J	ug/L	RW-009	1 / 2	25 - 25	8.9	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.66	J	1.3		ug/L	RW-009	2 / 2	-	1.3	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	7020		7520		ug/L	RW-009	2 / 2	-	7520	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	0.22	J	0.71	J	ug/L	RW-009	2 / 2	-	0.71	N/A	88 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.59	J	0.59	J	ug/L	RW-009	1 / 2	5 - 5	0.59	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	923	J	1510		ug/L	RW-009	2 / 2	-	1510	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.97	J	0.97	J	ug/L	RW-009	1 / 2	0.68 - 0.68	0.97	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	11200		11600	J	ug/L	RW-009	2 / 2	-	11600	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	11.5		12.5		ug/L	RW-009	2 / 2	-	12.5	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.28
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Current
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Tap Water (Residential Well - RW-010)

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
	No VOCs Detected															
84-74-2	Di-n-butylphthalate	1	J	1	J	ug/L	RW-010	1 / 1	-	1	N/A	360 N	N/A	N/A	NO	BSL
	No PCB/Pesticides Detected															
	No Dioxins Detected															
7429-90-5	Aluminum	14.3	J	14.3	J	ug/L	RW-010	1 / 1	-	14.3	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	1.6	J	1.6	J	ug/L	RW-010	1 / 1	-	1.6	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	7.8	J	7.8	J	ug/L	RW-010	1 / 1	-	7.8	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	215000		215000		ug/L	RW-010	1 / 1	-	215000	N/A	N/Â	N/A	N/A	NO	NUT
7440-50-8	Copper	4.9	J	4.9	J	ug/L	RW-010	1 / 1	-	4.9	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	709	J	709	J	ug/L	RW-010	1 / 1	-	709	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	4		4		ug/L	RW-010	1 / 1	-	4	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	15100		15100		ug/L	RW-010	1 / 1	-	15100	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	664		664		ug/L	RW-010	1 / 1	-	664	N/A	88 N	N/A	N/A	YES	ASL
7440-09-7	Potassium	4870		4870		ug/L	RW-010	1 / 1	-	4870	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	177000		177000		ug/L	RW-010	1 / 1	-	177000	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	10		10		ug/L	RW-010	1 / 1	-	10	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.29
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-101U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	3	J	3	J	ug/L	MW-101U	1 / 3	5 - 5	3	N/A	61 N	N/A	N/A	NO	BSL
1634-04-4	Methyl tert-butyl ether	2		2		ug/L	MW-101U	1 / 3	1 - 1	2	N/A	2 N	N/A	N/A	NO	BSL
75-09-2	Methylene chloride	0.9	J	26		ug/L	MW-101U	2 / 3	5 - 5	26	N/A	4.3 C	N/A	N/A	YES	ASL
108-88-3	Toluene	0.5	J	0.5	J	ug/L	MW-101U	1 / 3	1 - 1	0.5	N/A	72 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	MW-101U	1 / 3	2 - 2	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	28.2	J	2920		ug/L	MW-101U	3 / 3	-	2920	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.7	J	1.7	J	ug/L	MW-101U	2 / 3	0.28 - 0.28	1.7	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	1.5	J	1.5	J	ug/L	MW-101U	1 / 3	0.28 - 0.4	1.5	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	46.6		95		ug/L	MW-101U	3 / 3	-	95	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.055	J	0.072	J	ug/L	MW-101U	2 / 3	0.08 - 0.08	0.072	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	81600		119000		ug/L	MW-101U	3 / 3	-	119000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.7	J	11.3		ug/L	MW-101U	3 / 3	-	11.3	N/A	11 N	N/A	N/A	YES	ASL
7440-48-4	Cobalt	0.15	J	2.7	J	ug/L	MW-101U	2 / 3	0.1 - 0.1	2.7	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.9	J	10.8		ug/L	MW-101U	3 / 3	-	10.8	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	36.6		4840		ug/L	MW-101U	3 / 3	-	4840	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.23	J	3.7		ug/L	MW-101U	2 / 3	0.26 - 0.26	3.7	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	22600		47400		ug/L	MW-101U	3 / 3	-	47400	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	15.3	J	214		ug/L	MW-101U	3 / 3	-	214	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	0.56	J	6.1	J	ug/L	MW-101U	3 / 3	-	6.1	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	1360		3050		ug/L	MW-101U	3 / 3	-	3050	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	10000	J	36900		ug/L	MW-101U	3 / 3	-	36900	N/A	N/A	N/A	N/A	NO	NUT
7440-28-0	Thallium	0.85	J	0.85	J	ug/L	MW-101U	1 / 3	0.33 - 2.5	0.85	N/A	0.24 N	N/A	N/A	YES	ASL
7440-66-6	Zinc	3.2	J	80.6		ug/L	MW-101U	3 / 3	-	80.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.30
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-102U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	2	J	2	J	ug/L	MW-102U	1 / 3	5 - 5	2	N/A	61 N	N/A	N/A	NO	BSL
7429-90-5	Aluminum	13.2	J	21.9	J	ug/L	MW-102U	2 / 3	85.7 - 85.7	21.9	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	1.1	J	1.1	J	ug/L	MW-102U	1 / 3	0.28 - 1.2	1.1	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	0.26	J	0.26	J	ug/L	MW-102U	1 / 3	0.4 - 0.82	0.26	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	3.2	J	4.6	J	ug/L	MW-102U	2 / 3	5 - 5	4.6	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.084	J	0.084	J	ug/L	MW-102U	1 / 3	0.056 - 0.05	0.084	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	20300		25800		ug/L	MW-102U	3 / 3	-	25800	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.92	J	0.92	J	ug/L	MW-102U	1 / 3	1.3 - 2.5	0.92	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	0.3	J	0.3	J	ug/L	MW-102U	1 / 3	0.5 - 0.71	0.3	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	15	J	15	J	ug/L	MW-102U	1 / 3	25 - 154	15	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	6060		7530		ug/L	MW-102U	3 / 3	-	7530	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	0.84	J	1.7	J	ug/L	MW-102U	2 / 3	4.9 - 4.9	1.7	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.17	J	0.17	J	ug/L	MW-102U	1 / 3	0.042 - 0.1	0.17	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.55	J	0.55	J	ug/L	MW-102U	1 / 3	1.4 - 5	0.55	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	293	J	668		ug/L	MW-102U	3 / 3	-	668	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.1	J	1.1	J	ug/L	MW-102U	1 / 3	0.68 - 1.5	1.1	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	1060		1310		ug/L	MW-102U	3 / 3	-	1310	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	5.4		5.4		ug/L	MW-102U	1 / 3	1.9 - 5	5.4	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL) *

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.31
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-103R

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	3	J	3	J	ug/L	MW-103R	1 / 3	5 - 10	3	N/A	61 N	N/A	N/A	NO	BSL
127-18-4	Tetrachloroethylene	0.5	J	0.5	J	ug/L	MW-103R	1 / 3	1 - 1	0.5	N/A	1.1 C	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	MW-103R	1 / 3	2 - 2	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	150		200		ug/L	MW-103R	2 / 3	52.5 - 52.5	200	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.78	J	2.1	J	ug/L	MW-103R	2 / 3	1.2 - 1.2	2.1	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	1.2	J	1.9	J	ug/L	MW-103R	2 / 3	2.5 - 2.5	1.9	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	44.7	J	50.4	J	ug/L	MW-103R	3 / 3	-	50.4	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	22900		27400		ug/L	MW-103R	3 / 3	-	27400	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.5	J	1.5	J	ug/L	MW-103R	1 / 3	1.2 - 2.5	1.5	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	0.82	J	1.1	J	ug/L	MW-103R	2 / 3	0.63 - 0.63	1.1	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	517		529		ug/L	MW-103R	2 / 3	379 - 379	529	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.53	J	1		ug/L	MW-103R	2 / 3	0.29 - 0.29	1	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	7270		9010		ug/L	MW-103R	3 / 3	-	9010	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	121		130		ug/L	MW-103R	2 / 3	125 - 125	130	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	0.92	J	0.92	J	ug/L	MW-103R	1 / 3	1.5 - 5	0.92	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	579		810	J	ug/L	MW-103R	3 / 3	-	810	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	1440	J	3420		ug/L	MW-103R	3 / 3	-	3420	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3.1	J	3.1	J	ug/L	MW-103R	1 / 3	2.4 - 5	3.1	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1998b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
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J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.32
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-103U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	2	J	2	J	ug/L	MW-103U	1 / 3	5 - 5	2	N/A	61 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	MW-103U	1 / 3	2 - 2	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	43.6		302		ug/L	MW-103U	2 / 3	46.8 - 46.8	302	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.58	J	1.5	J	ug/L	MW-103U	2 / 3	0.28 - 0.28	1.5	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	0.81	J	0.81	J	ug/L	MW-103U	1 / 3	0.4 - 0.94	0.81	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	14.4	J	15.5	J	ug/L	MW-103U	3 / 3	-	15.5	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.13	J	0.13	J	ug/L	MW-103U	1 / 3	0.05 - 0.056	0.13	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	47050		47600		ug/L	MW-103U	3 / 3	-	47600	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.42	J	0.42	J	ug/L	MW-103U	1 / 3	1.1 - 2.5	0.42	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	0.49	J	0.56	J	ug/L	MW-103U	2 / 3	0.73 - 0.73	0.56	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	52.2		502		ug/L	MW-103U	2 / 3	205 - 205	502	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.72	J	1.1		ug/L	MW-103U	2 / 3	0.54 - 0.54	1.1	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	21000		21700		ug/L	MW-103U	3 / 3	-	21700	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	2.8	J	26.4		ug/L	MW-103U	2 / 3	7 - 7	26.4	N/A	88 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.45	J	0.45	J	ug/L	MW-103U	1 / 3	1.5 - 5	0.45	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	566	J	878	J	ug/L	MW-103U	3 / 3	-	878	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.2	J	1.2	J	ug/L	MW-103U	1 / 3	0.68 - 1.5	1.2	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	2390	J	2740		ug/L	MW-103U	3 / 3	-	2740	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	5.2		14		ug/L	MW-103U	2 / 3	2.4 - 2.4	14	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.33
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-104U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	1	J	1	J	ug/L	MW-104U	1 / 3	5 - 5	1	N/A	61 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.9	J	ug/L	MW-104U	2 / 3	2 - 2	0.9	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	14.4	J	57.9		ug/L	MW-104U	2 / 3	128 - 128	57.9	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	2.1		2.2	J	ug/L	MW-104U	2 / 3	3.5 - 3.5	2.2	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	38.3	J	54.6	J	ug/L	MW-104U	3 / 3	-	54.6	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	54300		75200		ug/L	MW-104U	3 / 3	-	75200	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.77	J	0.77	J	ug/L	MW-104U	1 / 3	2.3 - 2.5	0.77	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.28	J	0.28	J	ug/L	MW-104U	1 / 3	0.65 - 2.5	0.28	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	1.2	J	1.2	J	ug/L	MW-104U	1 / 3	0.5 - 2.2	1.2	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	3260		5190		ug/L	MW-104U	3 / 3	-	5190	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	9270		12300		ug/L	MW-104U	3 / 3	-	12300	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	511		1110	J	ug/L	MW-104U	3 / 3	-	1110	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.13	J	0.13	J	ug/L	MW-104U	1 / 3	0.042 - 0.1	0.13	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.67	J	0.67	J	ug/L	MW-104U	1 / 3	3.2 - 5	0.67	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	3000		4180		ug/L	MW-104U	3 / 3	-	4180	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	32600		55600	J	ug/L	MW-104U	3 / 3	-	55600	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	4.9		4.9		ug/L	MW-104U	1 / 3	4.4 - 5	4.9	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
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PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.34
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-106U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	2	J	2	J	ug/L	MW-106U	1 / 3	5 - 5	2	N/A	61 N	N/A	N/A	NO	BSL
127-18-4	Tetrachloroethylene	0.6	J	0.6	J	ug/L	MW-106U	1 / 3	1 - 1	0.6	N/A	1.1 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	30.6	J	43.5	J	ug/L	MW-106U	2 / 3	56.7 - 56.7	43.5	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	0.46	J	1.8	J	ug/L	MW-106U	2 / 3	1.1 - 1.1	1.8	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	21.8	J	42.6	J	ug/L	MW-106U	3 / 3	-	42.6	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	52600		65800		ug/L	MW-106U	3 / 3	-	65800	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	0.48	J	0.48	J	ug/L	MW-106U	1 / 3	0.5 - 2.3	0.48	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	191		1410		ug/L	MW-106U	2 / 3	426 - 426	1410	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.4	J	0.4	J	ug/L	MW-106U	1 / 3	0.23 - 0.62	0.4	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	13200		17700		ug/L	MW-106U	3 / 3	-	17700	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	40.3		435		ug/L	MW-106U	2 / 3	44.1 - 44.1	435	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.17	J	0.17	J	ug/L	MW-106U	1 / 3	0.042 - 0.1	0.17	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.25	J	0.25	J	ug/L	MW-106U	1 / 3	2.6 - 5	0.25	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	983		1400		ug/L	MW-106U	3 / 3	-	1400	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.8	J	1.8	J	ug/L	MW-106U	1 / 3	0.68 - 0.75	1.8	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	23900		49100	J	ug/L	MW-106U	3 / 3	-	49100	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	2.6	J	2.6	J	ug/L	MW-106U	1 / 3	3.5 - 5	2.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for mercury and compounds used for mercury.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

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TABLE 2.35
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-107R

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	1	J	ug/L	MW-107R	3 / 3	-	1	N/A	4.8 C	N/A	N/A	NO	BSL
84-66-2	Diethylphthalate	3		3		ug/L	MW-107R	1 / 3	2 - 5	3	N/A	2900 N	N/A	N/A	NO	BSL
1746-01-6	Dioxin TEQ	3.4E-06	J	3.4E-06	J	ug/L	MW-107R	1 / 1	-	3.4E-06	N/A	4.5E-07 C	N/A	N/A	YES	ASL
7429-90-5	Aluminum	52.6		477		ug/L	MW-107R	3 / 3	-	477	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	2.3		8.9	J	ug/L	MW-107R	3 / 3	-	8.9	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	29.2	J	42		ug/L	MW-107R	3 / 3	-	42	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	166000		324000		ug/L	MW-107R	3 / 3	-	324000	N/A	N/A	N/A	N/A	NO	NUT
7440-48-4	Cobalt	1.2	J	1.4		ug/L	MW-107R	2 / 3	2.5 - 2.5	1.4	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	1.6	J	2.6	J	ug/L	MW-107R	2 / 3	3.8 - 3.8	2.6	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	582		2080		ug/L	MW-107R	3 / 3	-	2080	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.38	J	0.38	J	ug/L	MW-107R	1 / 3	0.62 - 0.66	0.38	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	32600		53600		ug/L	MW-107R	3 / 3	-	53600	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	611		1560		ug/L	MW-107R	3 / 3	-	1560	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.26		0.26		ug/L	MW-107R	1 / 3	0.042 - 0.1	0.26	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.81	J	0.81	J	ug/L	MW-107R	1 / 3	5 - 10.9	0.81	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	1350		4150		ug/L	MW-107R	3 / 3	-	4150	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.5	J	2.4	J	ug/L	MW-107R	2 / 3	0.68 - 0.68	2.4	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	10400		17500		ug/L	MW-107R	3 / 3	-	17500	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3.8	J	14.2	J	ug/L	MW-107R	3 / 3	-	14.2	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for mercury and compounds used for mercury.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
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TABLE 2.36
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-107U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	3	J	3	J	ug/L	MW-107U	1 / 3	5 - 5	3	N/A	61 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.8	J	0.8	J	ug/L	MW-107U	1 / 3	2 - 5	0.8	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	51.6		138.5		ug/L	MW-107U	3 / 3	-	138.5	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.275	J	1.6	J	ug/L	MW-107U	3 / 3	-	1.6	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	2.4	J	3.55		ug/L	MW-107U	3 / 3	-	3.55	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	57.35		82		ug/L	MW-107U	3 / 3	-	82	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.085	J	0.1835	J	ug/L	MW-107U	3 / 3	-	0.1835	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	89050		104000		ug/L	MW-107U	3 / 3	-	104000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.65	J	5.1		ug/L	MW-107U	3 / 3	-	5.1	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	1.4	J	1.45	J	ug/L	MW-107U	2 / 3	2.5 - 2.5	1.45	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.9	J	2.3	J	ug/L	MW-107U	3 / 3	-	2.3	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	640		4435		ug/L	MW-107U	3 / 3	-	4435	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.565	J	4.3	J	ug/L	MW-107U	2 / 3	0.62 - 0.62	4.3	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	10480		12800		ug/L	MW-107U	3 / 3	-	12800	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	1290		3620	J	ug/L	MW-107U	3 / 3	-	3620	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.085	J	0.085	J	ug/L	MW-107U	1 / 3	0.042 - 0.1	0.085	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	2.2	J	6.7	J	ug/L	MW-107U	2 / 3	5 - 5	6.7	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	3630		15200		ug/L	MW-107U	3 / 3	-	15200	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	2.6	J	2.6	J	ug/L	MW-107U	1 / 3	0.68 - 0.75	2.6	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	20000		32700	J	ug/L	MW-107U	3 / 3	-	32700	N/A	N/A	N/A	N/A	NO	NUT
7440-62-2	Vanadium	0.23	J	0.23	J	ug/L	MW-107U	1 / 3	0.67 - 2.5	0.23	N/A	26 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	6.25		14.4	J	ug/L	MW-107U	2 / 3	5 - 5	14.4	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.37
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-109U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	2	J	5	J	ug/L	MW-109U	2 / 3	5 - 5	5	N/A	61 N	N/A	N/A	NO	BSL
56-23-5	Carbon tetrachloride	1	J	1	J	ug/L	MW-109U	1 / 3	1 - 1	1	N/A	0.17 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.8	J	0.8	J	ug/L	MW-109U	1 / 3	2 - 2	0.8	N/A	4.8 C	N/A	N/A	NO	BSL
1024-57-3	Heptachlor epoxide	0.013	J	0.013	J	ug/L	MW-109U	1 / 1	-	0.013	N/A	0.0074 C	N/A	N/A	YES	ASL
1746-01-6	Dioxin TEQ	1.0E-07	J	1.0E-07	J	ug/L	MW-109U	1 / 1	-	1.0E-07	N/A	4.5E-07 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	114		536		ug/L	MW-109U	2 / 3	214 - 214	536	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	1.3	J	1.3	J	ug/L	MW-109U	1 / 3	0.28 - 0.42	1.3	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	14		23		ug/L	MW-109U	3 / 3	-	23	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	96.2		115	J	ug/L	MW-109U	3 / 3	-	115	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	71200		82100		ug/L	MW-109U	3 / 3	-	82100	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.52	J	0.52	J	ug/L	MW-109U	1 / 3	1.1 - 2.5	0.52	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.66	J	0.92		ug/L	MW-109U	2 / 3	2.5 - 2.5	0.92	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.3	J	1.5	J	ug/L	MW-109U	2 / 3	1.4 - 1.4	1.5	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	10100		12900		ug/L	MW-109U	3 / 3	-	12900	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.44	J	0.44	J	ug/L	MW-109U	1 / 3	0.31 - 0.62	0.44	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	9630		11200		ug/L	MW-109U	3 / 3	-	11200	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	3490		4240		ug/L	MW-109U	3 / 3	-	4240	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	0.72	J	0.72	J	ug/L	MW-109U	1 / 3	3.5 - 5	0.72	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	2580		3780		ug/L	MW-109U	3 / 3	-	3780	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.5	J	1.5	J	ug/L	MW-109U	1 / 3	0.68 - 1.5	1.5	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	19600		24300	J	ug/L	MW-109U	3 / 3	-	24300	N/A	N/A	N/A	N/A	NO	NUT
7440-28-0	Thallium	7.5		7.5		ug/L	MW-109U	1 / 3	0.33 - 0.76	7.5	N/A	0.24 N	N/A	N/A	YES	ASL
7440-66-6	Zinc	2.2	J	5.6		ug/L	MW-109U	2 / 3	4.1 - 4.1	5.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.38
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-110R

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	2.6	J	4	J	ug/L	MW-110R	2 / 3	5 - 5	4	N/A	61 N	N/A	N/A	NO	BSL
98-82-8	Isopropylbenzene	1.6	J	16		ug/L	MW-110R	3 / 3	-	16	N/A	68 N	N/A	N/A	NO	BSL
1634-04-4	Methyl tert-butyl ether	1		1.4	J	ug/L	MW-110R	3 / 3	-	1.4	N/A	2 N	N/A	N/A	NO	BSL
108-87-2	Methylcyclohexane	0.5	J	0.5	J	ug/L	MW-110R	1 / 3	1 - 1	0.5	N/A	520 N	N/A	N/A	NO	BSL
75-09-2	Methylene chloride	1		1		ug/L	MW-110R	1 / 3	5 - 5	1	N/A	4.3 C	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	1	J	ug/L	MW-110R	2 / 3	2 - 2	1	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	660		847		ug/L	MW-110R	3 / 3	-	847	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	1.5	J	1.5	J	ug/L	MW-110R	1 / 3	0.28 - 0.42	1.5	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	4.4		5.4		ug/L	MW-110R	3 / 3	-	5.4	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	112		124		ug/L	MW-110R	3 / 3	-	124	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	63300		69700		ug/L	MW-110R	3 / 3	-	69700	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	2.3	J	3.3		ug/L	MW-110R	2 / 3	2.5 - 2.5	3.3	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.68	J	0.86	J	ug/L	MW-110R	2 / 3	2.5 - 2.5	0.86	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	7.4		18.8		ug/L	MW-110R	3 / 3	-	18.8	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	1440		2630		ug/L	MW-110R	3 / 3	-	2630	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.85	J	0.93		ug/L	MW-110R	2 / 3	0.62 - 0.62	0.93	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	16100		18100		ug/L	MW-110R	3 / 3	-	18100	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	1480		1770	J	ug/L	MW-110R	3 / 3	-	1770	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	2.5	J	3.6	J	ug/L	MW-110R	2 / 3	5 - 5	3.6	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	2880		4780		ug/L	MW-110R	3 / 3	-	4780	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.6	J	1.7	J	ug/L	MW-110R	2 / 3	0.68 - 0.68	1.7	N/A	18 N	N/A	N/A	NO	BSL
7440-22-4	Silver	0.17	J	0.17	J	ug/L	MW-110R	1 / 3	0.2 - 0.85	0.17	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	60400		129000	J	ug/L	MW-110R	3 / 3	-	129000	N/A	N/A	N/A	N/A	NO	NUT
7440-62-2	Vanadium	0.5	J	0.5	J	ug/L	MW-110R	1 / 3	0.67 - 2.5	0.5	N/A	26 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	8.5		21.9		ug/L	MW-110R	3 / 3	-	21.9	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions: COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.39
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-110U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	3	J	3	J	ug/L	MW-110U	1 / 3	5 - 5	3	N/A	61 N	N/A	N/A	NO	BSL
100-41-4	Ethylbenzene	1		1		ug/L	MW-110U	1 / 3	1 - 1	1	N/A	130 N	N/A	N/A	NO	BSL
98-82-8	Isopropylbenzene	0.96	J	1		ug/L	MW-110U	2 / 3	1 - 1	1	N/A	66 N	N/A	N/A	NO	BSL
1634-04-4	Methyl tert-butyl ether	0.8	J	0.8	J	ug/L	MW-110U	1 / 3	1 - 1	0.8	N/A	2 N	N/A	N/A	NO	BSL
75-09-2	Methylene chloride	3		15		ug/L	MW-110U	2 / 3	5 - 5	15	N/A	4.3 C	N/A	N/A	YES	ASL
108-88-3	Toluene	2		2		ug/L	MW-110U	1 / 3	1 - 1	2	N/A	72 N	N/A	N/A	NO	BSL
1330-20-7	Xylene (total)	1.3		5		ug/L	MW-110U	2 / 3	1 - 1	5	N/A	140 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	MW-110U	1 / 3	2 - 2	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
87-86-5	Pentachlorophenol	0.9	J	1	J	ug/L	MW-110U	2 / 3	13 - 13	1	N/A	0.56 C	N/A	N/A	YES	ASL
7429-90-5	Aluminum	54.7		154		ug/L	MW-110U	3 / 3	-	154	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.96	J	1.6	J	ug/L	MW-110U	3 / 3	-	1.6	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	0.76	J	2.4		ug/L	MW-110U	3 / 3	-	2.4	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	48.4	J	116		ug/L	MW-110U	3 / 3	-	116	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.17	J	0.22		ug/L	MW-110U	2 / 3	0.08 - 0.08	0.22	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	57400		119000		ug/L	MW-110U	3 / 3	-	119000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.2	J	2.3	J	ug/L	MW-110U	2 / 3	2.5 - 2.5	2.3	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.52	J	0.91	J	ug/L	MW-110U	2 / 3	2.5 - 2.5	0.91	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	4.1	J	14.1		ug/L	MW-110U	3 / 3	-	14.1	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	40.5		661		ug/L	MW-110U	3 / 3	-	661	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.67	J	0.67	J	ug/L	MW-110U	1 / 3	0.26 - 0.62	0.67	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	9350		23000		ug/L	MW-110U	3 / 3	-	23000	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	346		1500	J	ug/L	MW-110U	3 / 3	-	1500	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	1.6	J	6.5	J	ug/L	MW-110U	2 / 3	5 - 5	6.5	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	4900		25500		ug/L	MW-110U	3 / 3	-	25500	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.91	J	2	J	ug/L	MW-110U	2 / 3	0.68 - 0.68	2	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	47500		276000	J	ug/L	MW-110U	3 / 3	-	276000	N/A	N/A	N/A	N/A	NO	NUT
7440-62-2	Vanadium	0.22	J	1.3	J	ug/L	MW-110U	2 / 3	2.5 - 2.5	1.3	N/A	26 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	3.3	J	16.6	J	ug/L	MW-110U	2 / 3	5 - 5	16.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.40
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-111U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	3.5	J	3.5	J	ug/L	MW-111U	1 / 3	5 - 5	3.5	N/A	61 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.5	J	0.5	J	ug/L	MW-111U	1 / 3	2 - 2	0.5	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	21.4	J	107		ug/L	MW-111U	2 / 3	196 - 196	107	N/A	N/A .	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.5	J	2	J	ug/L	MW-111U	2 / 3	0.28 - 0.28	2	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	0.585	J	0.65	J	ug/L	MW-111U	2 / 3	1.5 - 1.5	0.65	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	39.5	J	57.2	J	ug/L	MW-111U	3 / 3	-	57.2	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	42500		61100		ug/L	MW-111U	3 / 3	-	61100	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.38	J	0.38	J	ug/L	MW-111U	1 / 3	1.4 - 2.5	0.38	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.24	J	0.24	J	ug/L	MW-111U	1 / 3	0.67 - 2.5	0.24	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.49	J	0.49	J	ug/L	MW-111U	1 / 3	0.5 - 3.7	0.49	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	913		1665		ug/L	MW-111U	3 / 3	-	1665	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	1.6	J	1.6	J	ug/L	MW-111U	1 / 3	0.26 - 0.62	1.6	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	11500		16900		ug/L	MW-111U	3 / 3	-	16900	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	368		691.5		ug/L	MW-111U	2 / 3	510 - 510	691.5	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	0.75	J	0.75	J	ug/L	MW-111U	1 / 3	4.6 - 5	0.75	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	1330		1570		ug/L	MW-111U	3 / 3	-	1570	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.81	J	0.81	J	ug/L	MW-111U	1 / 3	0.68 - 1.5	0.81	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	37250		61800	J	ug/L	MW-111U	3 / 3	-	61800	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3	J	4.1	J	ug/L	MW-111U	2 / 3	11.7 - 11.7	4.1	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.41
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-112U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
67-64-1	Acetone	2	J	2	J	ug/L	MW-112U	1 / 3	5 - 5	2	N/A	61 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.7	J	0.7	J	ug/L	MW-112U	1 / 3	2 - 2	0.7	N/A	4.8 C	N/A	N/A	NO	BSL
1746-01-6	Dioxin TEQ	1.0E-08	J	1.0E-08	J	ug/L	MW-112U	1 / 1	-	1.0E-08	N/A	4.5E-07 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	10.3	J	167	J	ug/L	MW-112U	3 / 3	-	167	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.98	J	3.3	J	ug/L	MW-112U	3 / 3	-	3.3	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	0.85	J	0.98	J	ug/L	MW-112U	2 / 3	0.4 - 0.4	0.98	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	14.7	J	18.6	J	ug/L	MW-112U	3 / 3	-	18.6	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	23200		30000		ug/L	MW-112U	3 / 3	-	30000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.3	J	0.3	J	ug/L	MW-112U	1 / 3	0.56 - 2.5	0.3	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	0.64	J	1.9	J	ug/L	MW-112U	2 / 3	0.5 - 0.5	1.9	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	17	J	121		ug/L	MW-112U	2 / 3	25 - 25	121	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.36	J	0.48	J	ug/L	MW-112U	2 / 3	0.62 - 0.62	0.48	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	7190		8600		ug/L	MW-112U	3 / 3	-	8600	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	1	J	6.1		ug/L	MW-112U	2 / 3	0.28 - 0.28	6.1	N/A	88 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.22	J	1	J	ug/L	MW-112U	2 / 3	5 - 5	1	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	519	J	660		ug/L	MW-112U	3 / 3	-	660	N/A	N/A	N/A	N/A	NO	NUT
7440-22-4	Silver	0.22	J	0.22	J	ug/L	MW-112U	1 / 3	0.2 - 0.85	0.22	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	4280		10100		ug/L	MW-112U	3 / 3	-	10100	N/A	N/A	N/A	N/A	NO	NUT
7440-62-2	Vanadium	2	J	2	J	ug/L	MW-112U	1 / 3	0.2 - 2.5	2	N/A	26 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	4.2		5.3	J	ug/L	MW-112U	2 / 3	5 - 5	5.3	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.42
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-113R

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
7429-90-5	Aluminum	56.4	J	56.4	J	ug/L	MW-113R	1 / 1	-	56.4	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	58.4		58.4		ug/L	MW-113R	1 / 1	-	58.4	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	253		253		ug/L	MW-113R	1 / 1	-	253	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	114000		114000		ug/L	MW-113R	1 / 1	-	114000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.1	J	1.1	J	ug/L	MW-113R	1 / 1	-	1.1	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.59	J	0.59	J	ug/L	MW-113R	1 / 1	-	0.59	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	1.7	J	1.7	J	ug/L	MW-113R	1 / 1	-	1.7	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	1190		1190		ug/L	MW-113R	1 / 1	-	1190	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.23	J	0.23	J	ug/L	MW-113R	1 / 1	-	0.23	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	18600		18600		ug/L	MW-113R	1 / 1	-	18600	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	1310	J	1310	J	ug/L	MW-113R	1 / 1	-	1310	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	4.8	J	4.8	J	ug/L	MW-113R	1 / 1	-	4.8	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	1520		1520		ug/L	MW-113R	1 / 1	-	1520	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	29000	J	29000	J	ug/L	MW-113R	1 / 1	-	29000	N/A	N/A	N/A	N/A	NO	NUT

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.43
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-114U

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
95-50-1	1,2-Dichlorobenzene	28	J	28	J	ug/L	MW-114U	1 / 1	-	28	N/A	37 N	N/A	N/A	NO	BSL
541-73-1	1,3-Dichlorobenzene	0.69	J	0.69	J	ug/L	MW-114U	1 / 1	-	0.69	N/A	0.55 N	N/A	N/A	YES	ASL
106-46-7	1,4-Dichlorobenzene	7.9	J	7.9	J	ug/L	MW-114U	1 / 1	-	7.9	N/A	0.5 C	N/A	N/A	YES	ASL
108-90-7	Chlorobenzene	36	J	36	J	ug/L	MW-114U	1 / 1	-	36	N/A	11 N	N/A	N/A	YES	ASL
127-18-4	Tetrachloroethylene	78	J	78	J	ug/L	MW-114U	1 / 1	-	78	N/A	1.1 C	N/A	N/A	YES	ASL
79-01-6	Trichloroethene	0.62	J	0.62	J	ug/L	MW-114U	1 / 1	-	0.62	N/A	1.6 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	107	J	107	J	ug/L	MW-114U	1 / 1	-	107	N/A	N/A	N/A	N/A	NO	NTX
7440-38-2	Arsenic	2.4		2.4		ug/L	MW-114U	1 / 1	-	2.4	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	178		178		ug/L	MW-114U	1 / 1	-	178	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	94900		94900		ug/L	MW-114U	1 / 1	-	94900	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	12.8		12.8		ug/L	MW-114U	1 / 1	-	12.8	N/A	11 N	N/A	N/A	YES	ASL
7440-48-4	Cobalt	0.36	J	0.36	J	ug/L	MW-114U	1 / 1	-	0.36	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	3.1		3.1		ug/L	MW-114U	1 / 1	-	3.1	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	2420		2420		ug/L	MW-114U	1 / 1	-	2420	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.28	J	0.28	J	ug/L	MW-114U	1 / 1	-	0.28	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	14900		14900		ug/L	MW-114U	1 / 1	-	14900	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	9840	J	9840	J	ug/L	MW-114U	1 / 1	-	9840	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	4.5	J	4.5	J	ug/L	MW-114U	1 / 1	-	4.5	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	4000		4000		ug/L	MW-114U	1 / 1	-	4000	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.7	J	1.7	J	ug/L	MW-114U	1 / 1	-	1.7	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	85300	J	85300	J	ug/L	MW-114U	1 / 1	-	85300	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	4.9	J	4.9	J	ug/L	MW-114U	1 / 1	-	4.9	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.44
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-B-7

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
75-09-2	Methylene chloride	19000		19000		ug/L	MW-B-7	1 / 3	1 - 5	19000	N/A	4.3 C	N/A	N/A	YES	ASL
108-88-3	Toluene	13		13		ug/L	MW-B-7	1 / 3	1 - 1	13	N/A	72 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.5	J	0.5	J	ug/L	MW-B-7	1 / 3	2 - 5	0.5	N/A	4.8 C	N/A	N/A	NO	BSL
84-74-2	Di-n-butylphthalate	0.5	J	0.5	J	ug/L	MW-B-7	1 / 3	2 - 5	0.5	N/A	360 N	N/A	N/A	NO	BSL
7429-90-5	Aluminum	21.7	J	26.3	J	ug/L	MW-B-7	2 / 3	17.2 - 17.2	26.3	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.74	J	0.74	J	ug/L	MW-B-7	1 / 3	0.28 - 2.5	0.74	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	17.5		23.7	J	ug/L	MW-B-7	3 / 3	-	23.7	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	53300		62700		ug/L	MW-B-7	3 / 3	-	62700	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.46	J	0.46	J	ug/L	MW-B-7	1 / 3	0.62 - 2.5	0.46	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	1	J	3.3		ug/L	MW-B-7	2 / 3	1.3 - 1.3	3.3	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	25.4	J	42.2		ug/L	MW-B-7	2 / 3	273 - 273	42.2	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	13900		16500		ug/L	MW-B-7	3 / 3	-	16500	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	4.9	J	5.9		ug/L	MW-B-7	2 / 3	15.1 - 15.1	5.9	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.25		0.25		ug/L	MW-B-7	1 / 3	0.042 - 0.1	0.25	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.36	J	0.36	J	ug/L	MW-B-7	1 / 3	2.4 - 2.5	0.36	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	361		523	J	ug/L	MW-B-7	3 / 3	-	523	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	3010	J	4080		ug/L	MW-B-7	3 / 3	-	4080	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3.5	J	38.4		ug/L	MW-B-7	2 / 3	3.9 - 3.9	38.4	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions: COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
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TABLE 2.45
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-3

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
120-82-1	1,2,4-Trichlorobenzene	0.58	J	0.58	J	ug/L	MW-L-3	1 / 3	1 - 1	0.58	N/A	19 N	N/A	N/A	NO	BSL
95-50-1	1,2-Dichlorobenzene	0.8	J	1.7	J	ug/L	MW-L-3	3 / 3	-	1.7	N/A	37 N	N/A	N/A	NO	BSL
106-46-7	1,4-Dichlorobenzene	0.51	J	0.56	J	ug/L	MW-L-3	2 / 3	1 - 1	0.56	N/A	0.5 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.9	J	2		ug/L	MW-L-3	2 / 3	2 - 2	2	N/A	4.8 C	N/A	N/A	NO	BSL
84-74-2	Di-n-butylphthalate	1	J	1	J	ug/L	MW-L-3	1 / 3	2 - 5	1	N/A	360 N	N/A	N/A	NO	BSL
7440-47-3	Hexavalent Chromium	29.2		29.2		ug/L	MW-L-3	1 / 1	-	29.2	N/A	11 N	N/A	N/A	YES	ASL
7429-90-5	Aluminum	9.1	J	12.6	J	ug/L	MW-L-3	2 / 3	99.4 - 99.4	12.6	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.45	J	0.45	J	ug/L	MW-L-3	1 / 3	0.28 - 2.5	0.45	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	9.4		17.8		ug/L	MW-L-3	3 / 3	-	17.8	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	77.9		113		ug/L	MW-L-3	3 / 3	-	113	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	73400		112000		ug/L	MW-L-3	3 / 3	-	112000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.2	J	3.5	J	ug/L	MW-L-3	2 / 3	2.5 - 2.5	3.5	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	0.32	J	0.32	J	ug/L	MW-L-3	1 / 3	1 - 1.4	0.32	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	6250		8440		ug/L	MW-L-3	3 / 3	-	8440	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.76		0.76		ug/L	MW-L-3	1 / 3	0.41 - 1	0.76	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	7780		12700		ug/L	MW-L-3	3 / 3	-	12700	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	6950	J	9770	J	ug/L	MW-L-3	3 / 3	-	9770	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	0.48	J	0.48	J	ug/L	MW-L-3	1 / 3	2.5 - 3.9	0.48	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	2460		3600		ug/L	MW-L-3	3 / 3	-	3600	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.8	J	1.8	J	ug/L	MW-L-3	1 / 3	0.68 - 1.5	1.8	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	19000		29600		ug/L	MW-L-3	3 / 3	-	29600	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	9.1		10.8		ug/L	MW-L-3	2 / 3	5.4 - 5.4	10.8	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
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C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.46
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-4

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
75-09-2	Methylene chloride	590		590		ug/L	MW-L-4	1 / 3	2 - 5	590	N/A	4.3 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.9	J	0.9	J	ug/L	MW-L-4	1 / 3	2 - 2	0.9	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	55.4		421	J	ug/L	MW-L-4	3 / 3	-	421	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.53	J	0.53	J	ug/L	MW-L-4	1 / 3	0.38 - 2.5	0.53	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	23.6	J	35.7		ug/L	MW-L-4	3 / 3	-	35.7	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	53200		78600		ug/L	MW-L-4	3 / 3	-	78600	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.86	J	0.86	J	ug/L	MW-L-4	1 / 3	1.5 - 2.5	0.86	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.13	J	0.13	J	ug/L	MW-L-4	1 / 3	0.18 - 2.5	0.13	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.8	J	0.8	J	ug/L	MW-L-4	1 / 3	1 - 1.6	0.8	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	96.8		138	J	ug/L	MW-L-4	2 / 3	294 - 294	138	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.34	J	0.34	J	ug/L	MW-L-4	1 / 3	0.44 - 1	0.34	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	9210		15200		ug/L	MW-L-4	3 / 3	-	15200	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	6.7		7.4	J	ug/L	MW-L-4	2 / 3	62.2 - 62.2	7.4	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.17	J	0.17	J	ug/L	MW-L-4	1 / 3	0.042 - 0.1	0.17	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.77	J	0.77	J	ug/L	MW-L-4	1 / 3	2.5 - 3.8	0.77	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	3700		4800		ug/L	MW-L-4	3 / 3	-	4800	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	2.6	J	2.6	J	ug/L	MW-L-4	1 / 3	0.68 - 1.5	2.6	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	17800		30000		ug/L	MW-L-4	3 / 3	-	30000	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	5.7		66.4		ug/L	MW-L-4	3 / 3	-	66.4	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for mercury and compounds used for mercury.
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(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
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N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.47
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-5

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
1634-04-4	Methyl tert-butyl ether	0.6	J	1.1	J	ug/L	MW-L-5	2 / 3	1 - 1	1.1	N/A	2 N	N/A	N/A	NO	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	0.7	J	0.7	J	ug/L	MW-L-5	1 / 3	2 - 2	0.7	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	22.5	J	239.5	J	ug/L	MW-L-5	2 / 3	119 - 119	239.5	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	1.3	J	1.3	J	ug/L	MW-L-5	1 / 3	0.28 - 2.5	1.3	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	0.63	J	0.63	J	ug/L	MW-L-5	1 / 3	0.4 - 0.92	0.63	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	29.4	J	38.2	J	ug/L	MW-L-5	3 / 3	-	38.2	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	50750		85200		ug/L	MW-L-5	3 / 3	-	85200	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.6	J	2.5	J	ug/L	MW-L-5	2 / 3	3.2 - 3.2	2.5	N/A	11 N	N/A	N/A	NO	BSL
7440-50-8	Copper	0.41	J	1.15	J	ug/L	MW-L-5	2 / 3	2 - 2	1.15	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	34.5		395	J	ug/L	MW-L-5	2 / 3	391 - 391	395	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.68		9.2	J	ug/L	MW-L-5	2 / 3	1 - 1	9.2	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	9940		19700		ug/L	MW-L-5	3 / 3	-	19700	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	3.1		22.45	J	ug/L	MW-L-5	2 / 3	27.3 - 27.3	22.45	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.12	J	0.12	J	ug/L	MW-L-5	1 / 3	0.042 - 0.1	0.12	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.4	J	0.4	J	ug/L	MW-L-5	1 / 3	2.5 - 3.5	0.4	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	2815		4210		ug/L	MW-L-5	3 / 3	-	4210	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.4	J	2.25	J	ug/L	MW-L-5	3 / 3	-	2.25	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	28300		69250		ug/L	MW-L-5	3 / 3	-	69250	N/A	N/A	N/A	N/A	NO	NUT
7440-28-0	Thallium	0.8	J	0.8	J	ug/L	MW-L-5	1 / 3	0.33 - 1	0.8	N/A	0.24 N	N/A	N/A	YES	ASL
7440-66-6	Zinc	2.5	J	132.5		ug/L	MW-L-5	2 / 3	3.6 - 3.6	132.5	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
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TABLE 2.48
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-6

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
117-81-7	Bis(2-ethylhexyl)phthalate	1	J	1	J	ug/L	MW-L-6	1 / 3	2 - 5	1	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	9.4	J	28.4	J	ug/L	MW-L-6	2 / 3	62.4 - 62.4	28.4	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.52	J	0.52	J	ug/L	MW-L-6	1 / 3	0.28 - 2.5	0.52	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	13.5	J	19.2	J	ug/L	MW-L-6	3 / 3	-	19.2	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	41100		54200		ug/L	MW-L-6	3 / 3	-	54200	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.72	J	0.72	J	ug/L	MW-L-6	1 / 3	2.2 - 2.5	0.72	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.13	J	0.13	J	ug/L	MW-L-6	1 / 3	0.16 - 2.5	0.13	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.5	J	0.5	J	ug/L	MW-L-6	1 / 3	1 - 1.8	0.5	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	53.6		53.6		ug/L	MW-L-6	1 / 3	25 - 273	53.6	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	6870		9280		ug/L	MW-L-6	3 / 3	-	9280	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	6.2	J	7.2		ug/L	MW-L-6	2 / 3	23.3 - 23.3	7.2	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.25		0.25		ug/L	MW-L-6	1 / 3	0.042 - 0.1	0.25	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.41	J	0.41	J	ug/L	MW-L-6	1 / 3	2.5 - 3.6	0.41	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	1150		1840		ug/L	MW-L-6	3 / 3	-	1840	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.5		1.5		ug/L	MW-L-6	1 / 3	0.68 - 1.5	1.5	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	13500		19400		ug/L	MW-L-6	3 / 3	-	19400	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3.4	J	12.6		ug/L	MW-L-6	2 / 3	2.5 - 2.5	12.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
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TABLE 2.49
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-7

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
75-09-2	Methylene chloride	5.4		5.4		ug/L	MW-L-7	1 / 3	1 - 5	5.4	N/A	4.3 C	N/A	N/A	YES	ASL
84-66-2	Diethylphthalate	1	J	1	J	ug/L	MW-L-7	1 / 3	2 - 5	1	N/A	2900 N	N/A	N/A	NO	BSL
7429-90-5	Aluminum	99.5	J	886	J	ug/L	MW-L-7	3 / 3	-	886	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.57	J	0.57	J	ug/L	MW-L-7	1 / 3	0.28 - 2.5	0.57	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	0.56	J	0.86	J	ug/L	MW-L-7	3 / 3	-	0.86	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	23		47.8		ug/L	MW-L-7	3 / 3	-	47.8	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	38900		66000		ug/L	MW-L-7	3 / 3	-	66000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	1.7	J	7.9		ug/L	MW-L-7	3 / 3	-	7.9	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.6	J	0.93	J	ug/L	MW-L-7	2 / 3	2.5 - 2.5	0.93	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	1.2	J	4.2		ug/L	MW-L-7	3 / 3	-	4.2	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	174	J	1190		ug/L	MW-L-7	3 / 3	-	1190	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	1.3		3.1		ug/L	MW-L-7	2 / 3	1 - 1	3.1	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	6310		13300		ug/L	MW-L-7	3 / 3	-	13300	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	11	J	89.2		ug/L	MW-L-7	3 / 3	-	89.2	N/A	88 N	N/A	N/A	YES	ASL
7440-02-0	Nickel	1.7	J	3.7	J	ug/L	MW-L-7	2 / 3	2.5 - 2.5	3.7	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	4190		7530		ug/L	MW-L-7	3 / 3	-	7530	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.9	J	3.8	J	ug/L	MW-L-7	3 / 3	-	3.8	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	51100		94500		ug/L	MW-L-7	3 / 3	-	94500	N/A	N/A	N/A	N/A	NO	NUT
7440-62-2	Vanadium	0.55	J	0.95	J	ug/L	MW-L-7	2 / 3	2.5 - 2.5	0.95	N/A	26 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	6		33.6		ug/L	MW-L-7	3 / 3	-	33.6	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
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Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.50
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-9

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
75-09-2	Methylene chloride	10		10		ug/L	MW-L-9	1 / 3	1 - 5	10	N/A	4.3 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.7	J	1	J	ug/L	MW-L-9	2 / 3	2 - 2	1	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	168	J	505	J	ug/L	MW-L-9	3 / 3	-	505	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.97	J	0.97	J	ug/L	MW-L-9	1 / 3	0.28 - 2.5	0.97	N/A	1.5 N	N/A	N/A	NO	BSL
7440-39-3	Barium	11.5		21.4		ug/L	MW-L-9	3 / 3	-	21.4	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.25	J	0.25	J	ug/L	MW-L-9	1 / 3	0.056 - 0.1	0.25	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	36200		50400		ug/L	MW-L-9	3 / 3	-	50400	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.6	J	0.97	J	ug/L	MW-L-9	2 / 3	2.5 - 2.5	0.97	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	0.3	J	0.46	J	ug/L	MW-L-9	2 / 3	2.5 - 2.5	0.46	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	1.2	J	1.3	J	ug/L	MW-L-9	3 / 3	-	1.3	N/A	N/A	N/A	N/A	NO	NTX
74-90-8	Cyanide	2.2	J	2.2	J	ug/L	MW-L-9	1 / 3	5 - 5	2.2	N/A	0.62 N	N/A	N/A	YES	ASL
7439-89-6	Iron	460		985	J	ug/L	MW-L-9	3 / 3	-	985	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.78		6.5		ug/L	MW-L-9	2 / 3	1 - 1	6.5	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	5350		8480		ug/L	MW-L-9	3 / 3	-	8480	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	33.1		48.3	J	ug/L	MW-L-9	3 / 3	-	48.3	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.17	J	0.17	J	ug/L	MW-L-9	1 / 3	0.042 - 0.1	0.17	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.88	J	2.6	J	ug/L	MW-L-9	2 / 3	2.5 - 2.5	2.6	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	827		1340		ug/L	MW-L-9	3 / 3	-	1340	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	9380		16100	J	ug/L	MW-L-9	3 / 3	-	16100	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3.2	J	72.2		ug/L	MW-L-9	3 / 3	-	72.2	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.51
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-10

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
75-09-2	Methylene chloride	9.25	J	9.25	J	ug/L	MW-L-10	1 / 3	1 - 5	9.25	N/A	4.3 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.6	J	0.6	J	ug/L	MW-L-10	1 / 3	2 - 5	0.6	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	72.6		216.5		ug/L	MW-L-10	2 / 3	104 - 104	216.5	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.905	J	0.905	J	ug/L	MW-L-10	1 / 3	0.28 - 2.5	0.905	N/A	1.5 N	N/A	N/A	NO	BSL
7440-38-2	Arsenic	0.765	J	0.86	J	ug/L	MW-L-10	2 / 3	2.2 - 2.2	0.86	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	50.55		61.05		ug/L	MW-L-10	3 / 3	-	61.05	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	1.35		1.35		ug/L	MW-L-10	1 / 3	0.056 - 0.1	1.35	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	127000		145500		ug/L	MW-L-10	3 / 3	-	145500	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.39	J	0.39	J	ug/L	MW-L-10	1 / 3	1.5 - 2.5	0.39	N/A	11 N	N/A	N/A	NO	BSL
7440-48-4	Cobalt	1.75	J	2.7		ug/L	MW-L-10	2 / 3	2.5 - 2.5	2.7	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.675	J	0.85	J	ug/L	MW-L-10	2 / 3	1.8 - 1.8	0.85	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	984	J	2190		ug/L	MW-L-10	3 / 3	-	2190	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	26500		38500		ug/L	MW-L-10	3 / 3	-	38500	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	592.5	J	2880	J	ug/L	MW-L-10	3 / 3	-	2880	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.1	J	0.1	J	ug/L	MW-L-10	1 / 3	0.042 - 0.1	0.1	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	1.55	J	1.55	J	ug/L	MW-L-10	1 / 3	2.5 - 6.2	1.55	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	433.5		1465		ug/L	MW-L-10	3 / 3	-	1465	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	1.9	J	3.7	J	ug/L	MW-L-10	2 / 3	0.68 - 0.68	3.7	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	31800	J	80700		ug/L	MW-L-10	3 / 3	-	80700	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	3.95	J	3.95	J	ug/L	MW-L-10	1 / 3	2.5 - 2.7	3.95	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.52
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: On-Site Monitoring Well - MW-L-11

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
1912-24-9	Atrazine	7		7		ug/L	MW-L-11	1 / 3	2 - 5	7	N/A	0.3 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.9	J	0.9	J	ug/L	MW-L-11	1 / 3	2 - 2	0.9	N/A	4.8 C	N/A	N/A	NO	BSL
7429-90-5	Aluminum	11.4	J	12.3	J	ug/L	MW-L-11	2 / 3	96.8 - 96.8	12.3	N/A	N/A	N/A	N/A	NO	NTX
7440-39-3	Barium	28.2	J	48		ug/L	MW-L-11	3 / 3	-	48	N/A	260 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	36900		60500		ug/L	MW-L-11	3 / 3	-	60500	N/A	N/A	N/A	N/A	NO	NUT
7440-50-8	Copper	0.41	J	0.41	J	ug/L	MW-L-11	1 / 3	1 - 1.5	0.41	N/A	N/A	N/A	N/A	NO	NTX
7439-89-6	Iron	11.4	J	11.4	J	ug/L	MW-L-11	1 / 3	25 - 348	11.4	N/A	N/A	N/A	N/A	NO	NTX
7439-95-4	Magnesium	7110		11900		ug/L	MW-L-11	3 / 3	-	11900	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	1	J	5.1		ug/L	MW-L-11	2 / 3	6.2 - 6.2	5.1	N/A	88 N	N/A	N/A	NO	BSL
7439-97-6	Mercury	0.26		0.26		ug/L	MW-L-11	1 / 3	0.042 - 0.1	0.26	N/A	1.1 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	2940		3070		ug/L	MW-L-11	3 / 3	-	3070	N/A	N/A	N/A	N/A	NO	NUT
7440-23-5	Sodium	10500		25200		ug/L	MW-L-11	3 / 3	-	25200	N/A	N/A	N/A	N/A	NO	NUT
7440-66-6	Zinc	1.5	J	1.5	J	ug/L	MW-L-11	1 / 3	2.5 - 9.8	1.5	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)

TABLE 2.53
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: All On-Site Monitoring Wells

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
120-82-1	1,2,4-Trichlorobenzene	0.58	J	0.58	J	ug/L	MW-L-3	1 / 68	1 - 1	0.58	N/A	19 N	N/A	N/A	NO	BSL
95-50-1	1,2-Dichlorobenzene	0.8	J	28	J	ug/L	MW-114U	4 / 68	1 - 1	28	N/A	37 N	N/A	N/A	NO	BSL
541-73-1	1,3-Dichlorobenzene	0.69	J	0.69	J	ug/L	MW-114U	1 / 68	1 - 1	0.69	N/A	0.55 N	N/A	N/A	YES	ASL
106-46-7	1,4-Dichlorobenzene	0.51	J	7.9	J	ug/L	MW-114U	3 / 68	1 - 1	7.9	N/A	0.5 C	N/A	N/A	YES	ASL
67-64-1	Acetone	1	J	5	J	ug/L	MW-101U	14 / 68	1 - 10	5	N/A	61 N	N/A	N/A	NO	BSL
56-23-5	Carbon tetrachloride	1	J	1	J	ug/L	MW-101U	1 / 68	1 - 1	1	N/A	0.17 C	N/A	N/A	YES	ASL
108-90-7	Chlorobenzene	36	J	36	J	ug/L	MW-114U	1 / 68	1 - 1	36	N/A	11 N	N/A	N/A	YES	ASL
100-41-4	Ethylbenzene	1		1		ug/L	MW-101U	1 / 68	1 - 1	1	N/A	130 N	N/A	N/A	NO	BSL
98-82-8	Isopropylbenzene	0.96	J	16		ug/L	MW-110R	5 / 68	1 - 1	16	N/A	66 N	N/A	N/A	NO	BSL
1634-04-4	Methyl tert-butyl ether	0.6	J	2		ug/L	MW-101U	7 / 68	1 - 1	2	N/A	2 N	N/A	N/A	NO	BSL
108-87-2	Methylcyclohexane	0.5	J	0.5	J	ug/L	MW-110R	1 / 68	1 - 1	0.5	N/A	520 N	N/A	N/A	NO	BSL
75-09-2	Methylene chloride	0.9	J	19000		ug/L	MW-B-7	10 / 68	1 - 5	19000	N/A	4.3 C	N/A	N/A	YES	ASL
127-18-4	Tetrachloroethylene	0.5	J	78	J	ug/L	MW-114U	3 / 68	1 - 1	78	N/A	1.1 C	N/A	N/A	YES	ASL
108-88-3	Toluene	0.5	J	13		ug/L	MW-B-7	3 / 68	1 - 5	13	N/A	72 N	N/A	N/A	NO	BSL
79-01-6	Trichloroethene	0.62	J	0.62	J	ug/L	MW-114U	1 / 68	1 - 1	0.62	N/A	1.6 C	N/A	N/A	NO	BSL
1330-20-7	Xylene (total)	1.3		5		ug/L	MW-110U	2 / 68	1 - 1	5	N/A	140 N	N/A	N/A	NO	BSL
1912-24-9	Atrazine	7		7		ug/L	MW-L-11	1 / 68	2 - 5	7	N/A	0.3 C	N/A	N/A	YES	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	0.5	J	2		ug/L	MW-101U	25 / 68	2 - 5	2	N/A	4.8 C	N/A	N/A	NO	BSL
84-74-2	Di-n-butylphthalate	0.5	J	1	J	ug/L	MW-L-3	2 / 68	2 - 5	1	N/A	360 N	N/A	N/A	NO	BSL
84-66-2	Diethylphthalate	1	J	3		ug/L	MW-107R	2 / 68	2 - 5	3	N/A	2900 N	N/A	N/A	NO	BSL
87-86-5	Pentachlorophenol	0.9	J	1	J	ug/L	MW-110U	2 / 68	5 - 13	1	N/A	0.56 C	N/A	N/A	YES	ASL
1024-57-3	Heptachlor epoxide	0.013	J	0.013	J	ug/L	MW-109U	1 / 22	0.01 - 0.01	0.013	N/A	0.0074 C	N/A	N/A	YES	ASL
1746-01-6	Dioxin TEQ	1.0E-08	J	3.4E-06	J	ug/L	MW-107R	3 / 24	-	3.4E-06	N/A	4.5E-07 C	N/A	N/A	YES	ASL
						ug/L										
7440-47-3	Hexavalent Chromium	29.2		29.2		ug/L	MW-L-3	1 / 24	10 - 20	29.2	N/A	11 N	N/A	N/A	YES	ASL

TABLE 2.53
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN

POWNAL TANNERY

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: All On-Site Monitoring Wells

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection (4)
7429-90-5	Aluminum	9.1	J	2920		ug/L	MW-101U	55 / 68	17.2 - 214	2920	N/A	N/A	N/A	N/A	NO	NTX
7440-36-0	Antimony	0.275	J	3.3	J	ug/L	MW-112U	28 / 68	0.28 - 2.5	3.3	N/A	1.5 N	N/A	N/A	YES	ASL
7440-38-2	Arsenic	0.26	J	58.4		ug/L	MW-113R	39 / 68	0.28 - 3.5	58.4	N/A	0.045 C	N/A	N/A	YES	ASL
7440-39-3	Barium	3.2	J	253		ug/L	MW-113R	67 / 68	5 - 5	253	N/A	260 N	N/A	N/A	NO	BSL
7440-43-9	Cadmium	0.055	J	1.35		ug/L	MW-L-10	11 / 68	0.05 - 0.28	1.35	N/A	1.8 N	N/A	N/A	NO	BSL
7440-70-2	Calcium	20300		324000		ug/L	MW-107R	68 / 68	-	324000	N/A	N/A	N/A	N/A	NO	NUT
7440-47-3	Chromium	0.3	J	12.8		ug/L	MW-114U	32 / 68	0.2 - 3.3	12.8	N/A	11 N	N/A	N/A	YES	ASL
7440-48-4	Cobalt	0.13	J	2.7	J	ug/L	MW-101U	24 / 68	0.056 - 2.5	2.7	N/A	N/A	N/A	N/A	NO	NTX
7440-50-8	Copper	0.3	J	18.8		ug/L	MW-110R	44 / 68	0.5 - 3.8	18.8	N/A	N/A	N/A	N/A	NO	NTX
74-90-8	Cyanide	2.2	J	2.2	J	ug/L	MW-L-9	1 / 68	1 - 5	2.2	N/A	0.62 N	N/A	N/A	YES	ASL
7439-89-6	Iron	11.4	J	12900		ug/L	MW-109U	55 / 68	25 - 426	12900	N/A	N/A	N/A	N/A	NO	NTX
7439-92-1	Lead	0.23	J	9.2	J	ug/L	MW-L-5	27 / 68	0.13 - 1	9.2	N/A	15 N	N/A	N/A	NO	BSL
7439-95-4	Magnesium	5350		53600		ug/L	MW-107R	68 / 68	-	53600	N/A	N/A	N/A	N/A	NO	NUT
7439-96-5	Manganese	0.84	J	9840	J	ug/L	MW-114U	57 / 68	0.28 - 510	9840	N/A	88 N	N/A	N/A	YES	ASL
7439-97-6	Mercury	0.085	J	0.26		ug/L	MW-107R	12 / 68	0.042 - 0.1	0.26	N/A	1.1 N	N/A	N/A	NO	BSL
7440-02-0	Nickel	0.22	J	6.7	J	ug/L	MW-107U	31 / 68	0.2 - 10.9	6.7	N/A	73 N	N/A	N/A	NO	BSL
7440-09-7	Potassium	293	J	25500		ug/L	MW-110U	68 / 68	-	25500	N/A	N/A	N/A	N/A	NO	NUT
7782-49-2	Selenium	0.81	J	3.8	J	ug/L	MW-L-7	24 / 68	0.68 - 1.5	3.8	N/A	18 N	N/A	N/A	NO	BSL
7440-22-4	Silver	0.17	J	0.22	J	ug/L	MW-112U	2 / 68	0.056 - 1.7	0.22	N/A	18 N	N/A	N/A	NO	BSL
7440-23-5	Sodium	1060		276000	J	ug/L	MW-110U	68 / 68	-	276000	N/A	N/A	N/A	N/A	NO	NUT
7440-28-0	Thallium	0.8	J	7.5		ug/L	MW-109U	3 / 68	0.33 - 2.5	7.5	N/A	0.24 N	N/A	N/A	YES	ASL
7440-62-2	Vanadium	0.22	J	2	J	ug/L	MW-112U	7 / 68	0.2 - 2.5	2	N/A	26 N	N/A	N/A	NO	BSL
7440-66-6	Zinc	1.5	J	132.5		ug/L	MW-L-5	45 / 68	1.9 - 11.7	132.5	N/A	1100 N	N/A	N/A	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Refer to supporting information for background discussion.
(3) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), November 1, 2000
PRG for mercury and compounds used for mercury.
PRG for chromium VI has been used for chromium.
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 1996b).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (1998b)