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October 6, 2014

WDNR
Attn: Doug Joseph
1300 W. Clairemont
Eau Claire, WI 54701

BRRTS# 02-32-000195

Dear Doug;

Please find attached two copies and an electronic version of the Remedial Design Report completed October 7, 2014 for the LIPCO Project at 1319 St. Andrew Street, La Crosse, WI. We would appreciate the Department's review of this document as we intend to complete the proposed work before winter sets in this fall.

It is LIPCO's desire to modify the existing Case Closure by removing both the Historic Fill status and Continuing Obligation for the Barrier Cap. To attain this change in conditions we intend to excavate for landfill disposal all rubble materials in the identified area (some 10,000 cubic yards estimated). The work would be completed with an onsite Environmental Specialist present to oversee the work, document findings, collect residual soil samples, document excavation size and depth. The materials will be hauled to La Crosse County Landfill for burial.

Once the work has been satisfactorily completed and the report submitted and approved, we will submit for the proposed revisions to the existing case closure.

Please do not hesitate to contact me with any questions you may have.

Yours truly,

CEDAR CORPORATION

Scott McCurdy, PG
Director, Environmental Group

cc. James Hill, LIPCO

Encl

REMEDIAL DESIGN REPORT

LIPCO PROPERTY
1319 ST. ANDREW STREET
LA CROSSE, WI

COMPLETED ON BEHALF OF

LA CROSSE INDUSTRIAL PARK CORPORAITON
712 MAIN STREET
LA CROSSE, WI 54601

OCTOBER 7, 2014

CEDAR CORPORATION
604 WILSON AVENUE
MENOMONIE, WI 54751
PROJECT 2294-011

SIGNATURE PAGE FOR

REMEDIAL DESIGN REPORT

LIPCO PROPERTY

1319 ST. ANDREW STREET

LA CROSSE, WI

I, Scott E. McCurdy, hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03 (1) Wis. Adm. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Scott E. McCurdy

October 7, 2014

Scott E. McCurdy, Hydrogeologist

Date

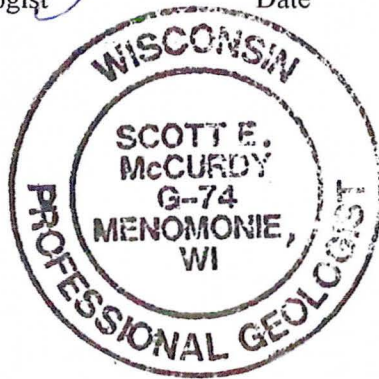


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Appendix A Direct Contact Hazards – Risk Calculations & Groundwater RCLs

I. INTRODUCTION

The LIPCO project consists of an over excavation of rubble and soils from an area approximately one acre in size located at 1319 St. Andrew Street, La Crosse, WI. This material was discovered during the removal of building foundations for the former Trane No. 6 facility which was located on the site. The nature of the materials found in the rubble predates the use of the facility by Trane as rubber, slag and rubber footwear found in the materials are not the type of materials Trane produced at its facility.

Contacts for this project are as follows:

Property Owner: LIPCO
712 Main Street,
La Crosse, WI 54601
James Hill, Director
608-784-5884 ladco@centurytel.net

Consultant: CEDAR CORPORATION
604 Wilson Avenue
Menomonie, WI 54751
Scott McCurdy, PG
715-235-9081 scott.mccurdy@cedarcorp.com

Site: 1319 St. Andrew Street, LaCrosse, WI
SW ¼ of the SW ¼ of the NE ¼ of Sec 29, T 16 N, R 07 W
Latitude: 43.834420 Long: -91.238993

II. PROJECT REFERENCES:

Joseph, Doug; WDNR; “Clarification of Environmental Liability and Present Environmental Conditions”; August 17, 2012

Evenson, Mitchell, Cedar Corporation; “Report on Deconstruction of the Trane No. 6 Manufacturing Facility”; February 9, 2011

McCulloch, Mark; Shannon & Wilson; “West Parking Lot Asphalt Pavement Existing Conditions – Former Trane Plant 6 – Well Abandonment, La Crosse, WI; May 9, 2013

McCurdy, Scott; Cedar Corporation; “Former Trane Plant #6, Additional Investigation of Rubble Area, La Crosse, WI; December 11, 2013

III. SITE HISTORY

The 1319 St. Andrews Street site (Figure 1) is the location of the former Trane #6 Air Conditioning manufacturing facility. The property was sequentially filled as the site was developed in the 1920's and later. The first building on the property, located on the corner of George and St. Andrew Streets was constructed in 1921 by LaCrosse Footwear and used as a bus barn. After Trane bought the property in 1943, building additions enlarged the facility to 212,000 square feet. The site was filled to accommodate the ongoing expansions.

a. Summary of Previous Environmental Inquiries

On January 26, 1990, two 10,000-gallon underground storage tanks (USTs) and three 8,000-gallon USTs were excavated and removed from the east side of the 12.4 acre site. The steel 10,000-gallon tanks stored No. 5 fuel oil and the three fiberglass 8,000-gallon tanks stored compressor oil. The approximate location of the former 10,000-gallon storage tank where soil contamination was observed is north of the former Trane building along the east side of the site. Subsequent remedial work involving the excavation of fuel oil contaminated soil at the location of the former 10,000-gallon UST occurred on May 31, 1990.

During the installation of a sprinkler water lateral performed concurrently with the May 31, 1990 remedial activities, groundwater exhibiting oil sheen was reportedly observed in an excavation near the site of the former UST. The oil sheen observed on the groundwater was sampled and analyzed to be No. 2 fuel oil.

In 1993, The Earth Technology Corporation (TETC), on behalf of a potential purchaser of the property, completed an Environmental Site Assessment of the facility. Soil and groundwater samples were collected from various locations on the property. As described in the August 1993 Phase I and II Site Investigation Report prepared by TETC, volatile organic compounds (VOCs) were detected in groundwater samples collected on the property. Additionally, Diesel Range Organic (DRO) compounds were detected in soil samples.

A soil gas survey was completed by Tracer Research Corporation on behalf of Trane in November 1993. This investigation confirmed the presence of DRO and VOCs in the subsurface beneath the south central and southeastern portion of the facility. Groundwater samples were collected from Geoprobe borings advanced inside and outside the building and analyzed for VOCs. Results were used to evaluate potential remedial alternatives as described in the October 1994 Continued Site Investigation and Evaluation of Remedial Alternatives Report prepared by Dames & Moore.

Groundwater sampling results indicated that potential sources of VOC groundwater contamination were present in several locations under the building. Dames & Moore recommended that a soil vapor extraction (SVE) system be installed to remove VOCs from the soil beneath the plant as a source control remedial response. The SVE system

would also increase the oxygen content in the subsurface to enhance the natural degradation of DRO in the soil beneath the plant. The SVE system was subsequently installed in November and December 1994, and began operating in January 1995. A monitoring well network and vapor monitoring probes were also installed.

In October 1995, soil samples collected to a depth of 5 feet in the vicinity of Sunstrand and the XCELLO lines indicated that a release of hydraulic oil occurred from "pits" beneath the equipment. These pits consist of concrete vaults approximately 18 inches below the plant floor. Reinforced concrete foundations 2 to 3 feet thick are in the center of each pit. Hydraulic oil used by the machinery drained into these pits and was routinely collected. After the equipment was removed, each pit was inspected and expansion joints between the foundation footings and the walls of the pit were discovered. A release along these expansion joints was suspected.

A site investigation to evaluate this concern completed in December 1995 and January 1996 determined contaminated soil was encountered within several feet of the water table. Elevated levels of DRO in the soil were encountered, but naturally occurring micro-organisms capable of degrading petroleum constituents were also present. Monitoring well MW-14 was installed and a groundwater sample was collected to determine impacts to groundwater quality. After one week following well installation, 2 feet of hydraulic oil was discovered in the monitoring well.

In January 1996, four inch diameter extraction/monitoring wells (wells EW-1, EW-2, EW-3, and EW-4) were installed at four locations around the perimeter of the former XCELLO line. Approximately 4 feet of hydraulic oil was discovered in EW-1 one week following well development. Results of the site investigation were presented in the February 1996 Hydraulic Oil Spill Site Investigation and Remedial System Design Report. A design to remediate contaminated soils in place by bioventing and a hydraulic oil recovery system was presented in the February 1996 report.

IV. CURRENT SITE INVESTIGATION FINDINGS

These conditions continued through the period 1996 through 2009 when LIPCO leased the building and in 2010 chose to demolish the building. Once the building was removed from the contamination source locations, these areas were excavated to the water table to address the ongoing groundwater contamination from the contaminated soils.

In 2010 during the footing removal along the west edge of the building, rubble was observed in the excavation. Subsequently a series of test pits and then borings were completed and identified an approximate one acre area containing some 10,000 cubic yards of waste. The December 2013 Investigation Report concluded arsenic, lead, some mercury are present at less than Hazardous Waste concentrations but some metals, notably arsenic and lead however, exceed the Direct Contact criteria in almost all test pits (Table 1 and Attachment A). In addition, PAH (polycyclic aromatic hydrocarbons) are present in every sample from the test pits (Table 2) and one or more of these compounds are at concentrations that exceed Direct Contact or Groundwater thresholds

(Attachment A). These conditions indicate the materials are contaminated and require onsite management under a Barrier Cap at a minimum or offsite management by treatment and/or disposal.

Even though the LIPCO property at 1319 St. Andrews Street in La Crosse had undergone several progressively detailed Environmental Assessments, Multi-Phase Site Investigations, and Remedial Actions the presence of the rubble material fill area was not discovered until 2010. The waste fill observed on the southwest edge of the St. Andrews Street Property is under what was called the west parking lot by the former building occupants. This rubble fill predates the property use by LIPCO and the potentially responsible party(ies) are unknown but are suspected to be associated with the former footwear manufacturing company that occupied the property prior to World War II. The substances found at this location are not eligible for either Petroleum or Agricultural Cleanup funds, therefore these state funds cannot be used in the cleanup process.

V. CURRENT PROJECT PURPOSE

The existing administrative control to address this residual contamination is the requirement to provide ongoing inspection and maintenance of the asphalt cap over the west parking lot which has been classified as a Historic Landfill by WDNR. Located on the immediate south west edge of the property along George Street, the rubble area has been determined to contain boiler slag, debris, concrete, and spent rubber (suspected to be from the pre-World War II operations at the former rubber mill) mixed with soils from near surface to a depth of 8 to 11 feet in areas. These materials and soils are contaminated with polycyclic aromatic hydrocarbons (heavy oil compounds) and metals above current WDNR acceptable concentrations.

The contaminated area is slated for economic recovery and commercial redevelopment with multi-story buildings; and, the estimated 10,000 cubic yards of materials are unsuitable as building foundation materials not to mention the concentrations of the contaminants of concern are well above residential and commercial Direct Contact levels. Removal of all these materials to the top of the water table (a depth of 10 -11 feet) is necessary to protect the health, safety and welfare of the public and provide secure building footings. The site is a desirable location for commercial/retail construction in this area of La Crosse and considerable efforts have been made to coordinate and organize a series of multi ownership professional/commercial facilities on the site.

The presence of the rubble presents two compounding issues – one is structural stability for building foundations and the other the existence of metals and PAH contaminants mixed with the rubble at concentrations which are considered a hazard to the health and safety of humans and the environment. The unstable nature of the rubble, the potential of long term environmental liability and the costs to address the materials have led to the conclusion that the most appropriate decision is to remove the rubble prior to any future development of the property.

Other options considered to address the rubble have included:

- Leaving the material in place and constructing single story slab on grade buildings (not desirable from the City's long range plan for this area which includes multi-story developments in this redeveloping neighborhood),
- Relocation of the rubble to another location on site and construct an overlying asphalt surface (barrier cap) for parking and or roadways under an exemption for beneficial reuse of this low hazard material (although technically acceptable, the resulting administrative requirements and the potential environmental liability are not addressed)

VI. PROPOSED REMEDIAL ACTION

The rubble area as shown in Figure 2 is covered with asphalt and 5 concrete curb tree surrounds. Underneath, exist sanitary and storm sewers. Other projects that will be completed on site prior to the rubble removal will relocate the sanitary sewer and remove the existing storm sewer outlets without disturbing this area. It is anticipated that 10,000 cubic yards of contaminated soil and rubble materials will be removed for offsite disposal. The proposed project will commence in early to mid-November and should be completed in 2 weeks.

Construction on site will commence with the placement of silt fence around the construction area to control storm water runoff, then the removal of the trees and concrete curb and asphalt. Where feasible these materials will be recycled. Excavation of the soils and rubble will be completed using a backhoe and haul trucks, no onsite stockpiling is anticipated nor required. The materials have little odor, therefore odor control measures are not required. As the material will be loaded directly into the haul trucks (tarpaulin covered), dust control measures will be limited. Tracking pads will be utilized to aid in contaminated soil removal from haul truck tires prior to exiting the site. During construction the tracking pads will be maintained and contaminated tracking pad materials will be removed and hauled with the rubble to the La Crosse County Landfill for burial. As areas of the excavation of contaminated materials are completed, the excavation will be sequentially backfilled with compacted sand fill.

An on-site environmental specialist will be present during the excavation and backfill efforts. Daily logs of the operation including observations of the materials removed, weight tickets, residual sampling locations, etc. will be maintained. The final excavation boundary and depths of excavation will be determined and recorded and all documentation will be compiled in a Remedial Action Documentation Report.

TABLES
AND
FIGURES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ADDITIONAL RUBBLE INVESTIGATION 2013
former TRANE #6 PLANT, 606 GEORGE ST., LA CROSSE, WI
BRRTS# 02-32-000195

NON INDUSTRIAL				Results reported in mg/Kg							
				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Wis Adm. Code NR720, D-C non Cancer RCL				34.0	15,300	70	NS	400	14.70	391	391
Wis Adm. Code NR720, D-C Cancer RCL				0.614	-	2,100	NS	-	-	-	-
Wis Adm. Code NR720, Not to Exceed D-C RCL				0.614	15,300	70	NS	400	3.13	391	391
<i>Wis Adm. Code NR720, Ground Water RCL</i>				<i>0.584</i>	<i>165</i>	<i>0.752</i>	<i>360,000</i>	<i>27</i>	<i>0.208</i>	<i>0.520</i>	<i>0.850</i>
Boring Name	Sample Depth	Sample Date	Laboratory ID								
TP-1	0-4	10/23/2013	500-65598-1	20.00	38.0	24.00	8.1	34.0	0.170	<i>0.620</i>	0.070
TP-1	7-9	10/23/2013	500-65598-2	26.00	32.0	<i>1.40</i>	7.0	<i>110.0</i>	0.890	<i>0.54 J</i>	0.094 J
TP-2	0-4	10/23/2013	500-65598-3	2.30	42.0	0.14 J	6.4	11.0	0.029	<0.40	<0.040
TP-2	8-10	10/23/2013	500-65598-4	22.00	69.0	0.56	6.6	<i>61.0</i>	0.070	<0.039	<0.040
TP-3	0-4	10/23/2013	500-65598-5	28.00	36.0	<i>1.30</i>	5.3	34.0	0.055	<i>0.96 J</i>	0.12 J
TP-3	8-11	10/23/2013	500-65598-6	21.00	67.0	<i>1.80</i>	6.3	<i>200.0</i>	0.081	<i>0.92 J</i>	0.09 J
TP-4	0-4	10/23/2013	500-65598-7	11.00	61.0	3.00	13.0	550.0	0.053	<0.43	0.084 J
TP-4	8-10	10/23/2013	500-65598-8	20.00	<i>240.0</i>	<i>1.30</i>	12.0	1,000.0	0.440	<i>0.59 J</i>	0.1 J
TP-5	0-4	10/23/2013	500-65598-9	25.00	28.0	<i>1.40</i>	7.7	<i>31.0</i>	0.170	0.49 J	0.063 J
TP-5	8-10	10/23/2013	500-65598-10	64.00	300.0	<i>1.90</i>	33.0	890.0	<i>0.290</i>	<0.39	0.2 J
TCLP				Results reported in mg/l							
				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Hazardous Material Criteria				5.00	100.00	1.00	5.00	5.00	0.20	1.00	5.00
TP-1	0-4	10/23/2013	500-65598-1	<0.012	0.78 B	0.007	<0.012	<0.0061	<0.000025	<0.012	<0.0061
TP-5	8-10	10/23/2013	500-65598-10	<0.012	0.78 B	0.030	<0.012	0.150	<0.000023	<0.012	<0.0058
Values in Bold Typeface exceed DIRECT CONTACT RCL. Values in Italic Typeface exceed Ground Water RCL.				ug/Kg= micrograms per kilogram = ppb = parts per billion mg/Kg= milligrams per kilogram = ppm = parts per million NS = No Standard Established							

TABLE 2
 SOIL SAMPLE ANALYTICAL RESULTS - POLYNUCLEAR AROMATIC HYDROCARBONS
 RUBBLE AREA ADDITIONAL INVESTIGATION - 2013
 former TRANE PLANT #6
 LA CROSSE, WI

PAHs (mg/kg)	NON-INDUSTRIAL RCLs			Ground water RCLs - DAF 2	Sample ID	TP-1 0-4	TP-1 7-9	TP-2 0-4	TP-2 8-10	TP-3 0-4	TP-3 8-11	TP-4 0-4	TP-4 8-10	TP-5 0-4	TP-5 8-10
	Non Cancer	Cancer	Not to Exceed		Lab ID	500-66598-1	500-66598-2	500-66598-3	500-66598-4	500-66598-5	500-66598-6	500-66598-7	500-66598-8	500-66598-9	500-66598-10
	Date	10/23/2013	10/23/2013		10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Acenaphthene	3,440	-	3,440	-		0.092	<0.061	<0.011	<0.058	0.055	<0.063	<0.012	0.100	<0.052	<0.056
Acenaphthylene	-	-	-	-		<0.047	<0.047	<0.0085	<0.045	0.043	<0.049	<0.0094	0.019	<0.040	<0.043
Anthracene	17,200	-	17,200	196.7442		0.300	0.190	<0.0087	0.047	0.330	0.310	0.059	0.310	0.200	0.120
Benzo (a) Anthracene	-	0.148	0.148	-		1.100	0.440	0.009	0.130	0.640	0.570	0.150	0.510	0.320	0.190
Benzo (b) Fluoranthene	-	0.148	0.148	0.4800		1.200	0.290	0.011	0.110	0.400	0.560	0.100	0.450	0.150	0.100
Benzo (k) Fluoranthene	-	1.48	1.48	-		0.280	0.088	<0.0088	0.059	0.130	0.160	0.034	0.180	0.071	<0.045
Benzo (a) Pyrene	-	0.0150	0.0150	0.4700		0.840	0.250	0.008	0.096	0.350	0.410	0.082	0.350	0.140	0.099
Benzo (ghi) Perylene	-	-	-	-		0.620	0.150	<0.012	0.100	0.210	0.270	0.059	0.220	0.074	0.068
Chrysene	-	14.80	14.80	0.1451		1.200	0.390	<0.0083	0.140	0.650	0.660	0.140	0.490	0.300	0.200
Dibenzo (a,h) Anthracene	-	0.038	0.038	-		0.170	<0.057	<0.010	<0.054	0.071	0.082	0.016	0.064	<0.049	<0.045
Fluoranthene	2,290	-	2,290	88.0000		2.100	0.520	<0.015	0.190	0.880	0.910	0.180	0.810	0.420	0.220
Fluorene	2,290	-	2,290	14.8148		0.060	<0.046	<0.0084	<0.044	<0.041	0.069	<0.0093	0.100	<0.04	<0.043
Indeno (1,2,3-cd) Pyrene	-	0.148	0.148	-		0.460	0.100	<0.012	<0.066	0.140	0.190	0.034	0.170	<0.059	<0.063
1-Methylnaphthalene	4,010	15.60	15.60	-		0.380	0.420	<0.018	<0.097	0.530	0.500	0.140	0.350	0.200	0.150
2-Methylnaphthalene	229	-	229	-		0.350	0.390	<0.048	<0.25	0.460	0.510	0.130	0.370	<0.23	<0.24
Naphthalene	188	5.15	5.15	0.6587		0.140	0.150	<0.0071	<0.037	0.190	0.230	0.041	0.200	0.072	0.066
Phenanthrene	-	-	-	-		2.000	1.200	<0.015	0.260	3.100	1.900	0.460	1.300	1.800	1.000
Pyrene	1,720	-	1,720	54.4725		2.000	0.590	<0.013	0.210	0.960	0.860	0.200	0.870	0.380	0.260

mg/kg = milligrams per Kilogram (ppm - parts per million)
 PAH = Polynuclear Aromatic Hydrocarbons

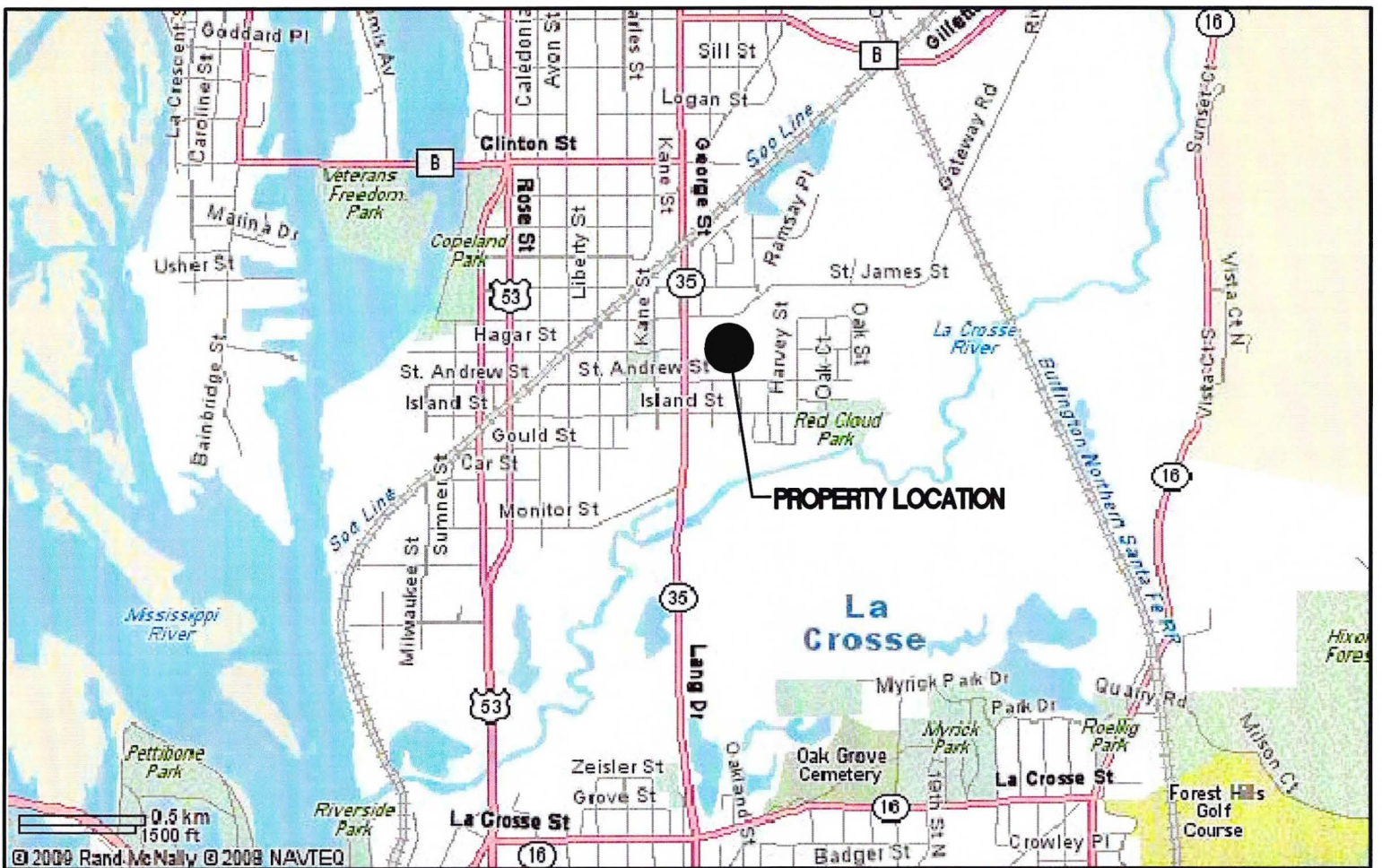


Figure 1: LIPCO Property

JOB NO.	L2294-005
BOOK NO.	-
DRAWN BY	JNM
CHECKED BY	SEM / MEE
DATE	DECEMBER 2013
REVISIONS	
REFERENCE FILE	L2294base.dwg
DRAWING FILE	PostDemoCont.2-2011

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Menomonie, Wisconsin 54751

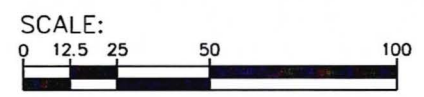
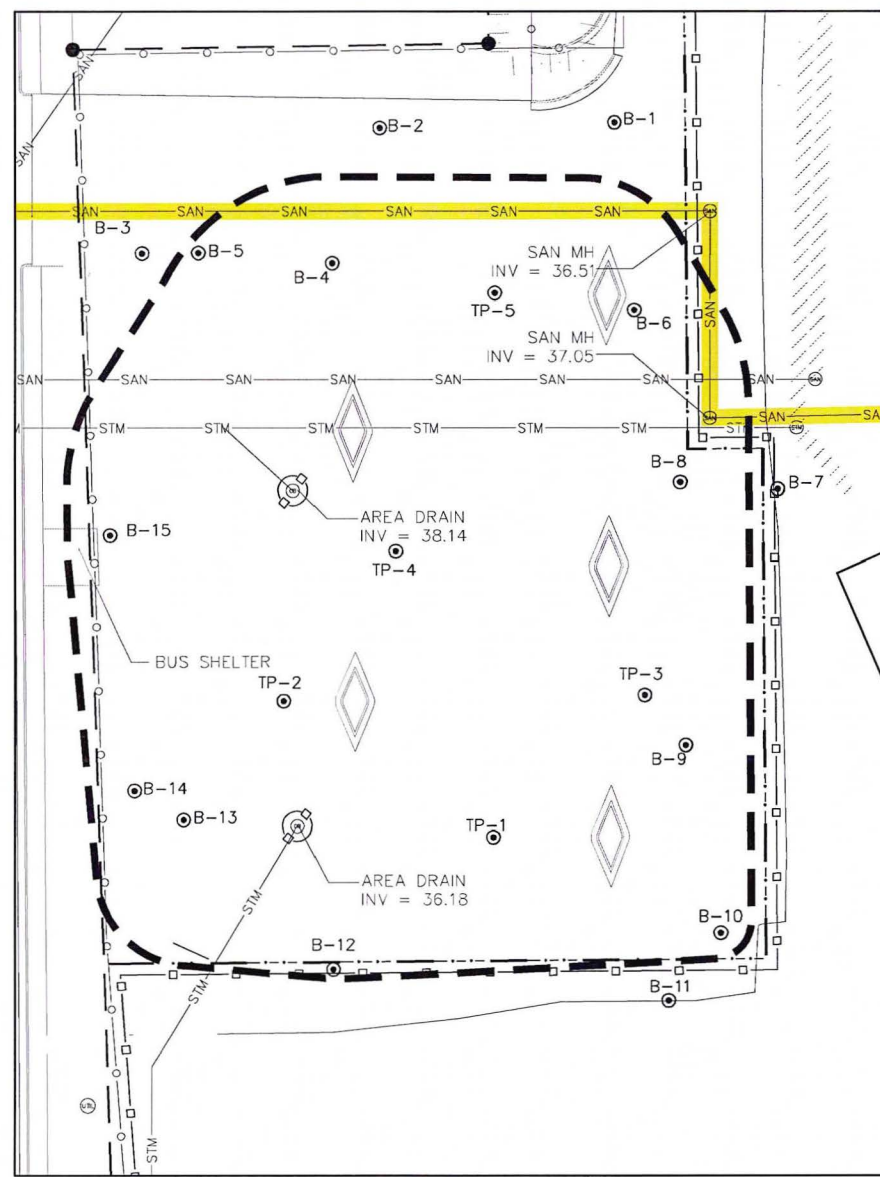
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engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers

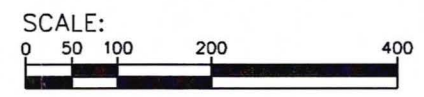
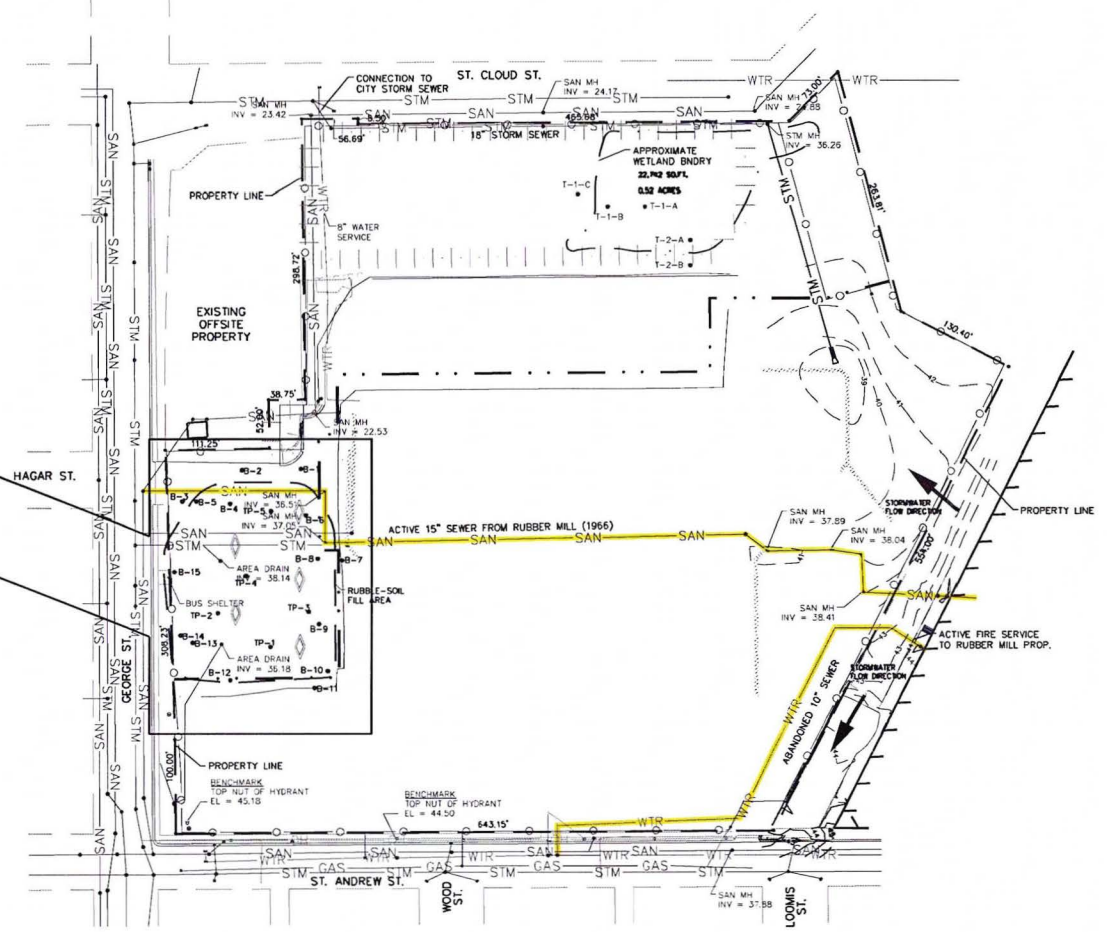
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LIPCO - FORMER TRANE PLANT NO. 6 PROPERTY
RUBBLE AREA - 2013 ADDITIONAL INVESTIGATION
606 GEORGE STREET
LA CROSSE, WISCONSIN

SHEET NO.	2
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- NOTES:**
- B-1 TO B-15 (2010)
 - TP-1 TO TP-5 (2013)



GENERAL NOTES

1. THE PROPERTY CONTAINS 540,195 SQ. FT. OR 12.401 ACRES±
2. ALL STREET UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS AND HAVE NOT BEEN FIELD VERIFIED.

ATTACHMENT A

DIRECT CONTACT HAZARD – RISK CALCULATIONS

&

RESIDUAL CONTAMINANT LEVELS PROTECTIVE OF GROUNDWATER QUALITY

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

*Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.*

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 20	Number of Individual Exceedance 5	(Cumulative) Hazard Index 1.0313	(Cumulative) Cancer Risk 1.1E-04
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Entry 12/10/2013 List below is sorted with the largest soil concentration data on top.
Date of Worksheet Used 06/19/2013

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Barium	7440-39-3	15,300.	-	15,300.	nc	38.		0.0025	
Lead and Compounds	7439-92-1	400.	-	400.	nc	34.		0.085	
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	24.		0.3429	1.1E-08
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	20.	E	0.5831	3.3E-05
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	2.1		0.0009	
Pyrene	129-00-0	1,720.	-	1,720.	nc	2.		0.0012	
Chrysene	218-01-9	-	14.8	14.8	ca	1.2			8.1E-08
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	1.1	E		7.4E-06
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.84	E		5.7E-05
Selenium	7782-49-2	391.	-	391.	nc	0.62		0.0016	
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca	0.46	E		3.1E-06
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.38		0.0001	2.4E-08
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc	0.35		0.0015	
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.3		0.	
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca	0.17	E		1.1E-05
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.17		0.0116	
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.14		0.0007	2.7E-08
Acenaphthene	83-32-9	3,440.	-	3,440.	nc	0.092		0.	
Silver	7440-22-4	391.	-	391.	nc	0.07		0.0002	
Fluorene	86-73-7	2,290.	-	2,290.	nc	0.06		0.	

TP-1 0'-4'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

*Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.*

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 17	Number of Individual Exceedance 3	(Cumulative) Hazard Index 1.1188	(Cumulative) Cancer Risk 6.2E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Entry: 12/10/2013 List below is sorted with the largest soil concentration data on top.
 Date of Worksheet Used: 06/19/2013

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.	nc	110.		0.275	
Barium	7440-39-3	15,300.	-	15,300.	nc	32.		0.0021	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	26.	E	0.758	4.2E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.4		0.02	6.6E-10
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.89		0.0605	
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.59		0.0003	
Selenium	7782-49-2	391.	-	391.	nc	0.54		0.0014	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.52		0.0002	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.42		0.0001	2.7E-08
Chrysene	218-01-9	-	14.8	14.8	ca	0.39			2.6E-08
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.29	E		2.0E-06
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.25	E		1.7E-05
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.19		0.	
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.15		0.0008	2.9E-08
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca	0.1			6.8E-07
Silver	7440-22-4	391.	-	391.	nc	0.094		0.0002	
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.088			5.9E-08

TP-1 7' - 9'
 ADDITIONAL INVESTIAGTION - RUBBLE
 former TRANE #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 10	Number of Individual Exceedance 1	(Cumulative) Hazard Index 0.1024	(Cumulative) Cancer Risk 4.4E-06
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Barium	7440-39-3	15,300.	-	15,300.	nc	42.		0.0027	
Lead and Compounds	7439-92-1	400.	-	400.	nc	11.		0.0275	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	2.3	E	0.0671	3.7E-06
Selenium	7782-49-2	391.	-	391.	nc	0.4		0.001	
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	0.14		0.002	6.6E-11
Silver	7440-22-4	391.	-	391.	nc	0.04		0.0001	
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.029		0.002	
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.011			7.4E-08
Benzo[a]anthracene	56-55-3	-	0.148	0.148	ca	0.0089			6.0E-08
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.0084			5.7E-07

sample TP-2 0'-4'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 15	Number of Individual Exceedance 2	(Cumulative) Hazard Index 0.8125	(Cumulative) Cancer Risk 4.4E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used: 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Barium	7440-39-3	15,300.	-	15,300.	nc	69.		0.0045	
Lead and Compounds	7439-92-1	400.	-	400.	nc	61.		0.1525	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	22.	E	0.6414	3.6E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	0.56		0.008	2.7E-10
Selenium	7782-49-2	391.	-	391.	nc	0.39		0.001	
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.21		0.0001	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.19		0.0001	
Chrysene	218-01-9	-	14.8	14.8	ca	0.14			9.5E-09
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.13			8.8E-07
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.11			7.4E-07
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.096	E		6.5E-06
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.07		0.0048	
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.059			4.0E-08
Silver	7440-22-4	391.	-	391.	nc	0.04		0.0001	
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.0047		0.	

Sample: TP-2 8'-10'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 21	Number of Individual Exceedance 5	(Cumulative) Hazard Index 0.9329	(Cumulative) Cancer Risk 8.2E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used: 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Barium	7440-39-3	15,300.	-	15,300.	nc	36.		0.0024	
Lead and Compounds	7439-92-1	400.	-	400.	nc	34.		0.085	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	28.	E	0.8163	4.6E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.3		0.0186	6.2E-10
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.96		0.0006	
Selenium	7782-49-2	391.	-	391.	nc	0.96		0.0025	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.88		0.0004	
Chrysene	218-01-9	-	14.8	14.8	ca	0.65			4.4E-08
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.64	E		4.3E-06
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.53		0.0001	3.4E-08
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc	0.46		0.002	
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.4	E		2.7E-06
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.35	E		2.4E-05
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.33		0.	
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.19		0.001	3.7E-08
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca	0.14			9.5E-07
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.13			8.8E-08
Silver	7440-22-4	391.	-	391.	nc	0.12		0.0003	
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca	0.071	E		4.8E-06
Acenaphthene	83-32-9	3,440.	-	3,440.	nc	0.055		0.	

TP-3 0'-4'
ADDITIONAL INVESTIGATION - RUBBLE
former TRANE PLANT #6
LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

*Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.*

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 21	Number of Individual Exceedance 6	(Cumulative) Hazard Index 1.155	(Cumulative) Cancer Risk 7.7E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used: 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.	nc	200.		0.5	
Barium	7440-39-3	15,300.	-	15,300.	nc	67.		0.0044	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	21.	E	0.6122	3.4E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.8		0.0257	8.5E-10
Selenium	7782-49-2	391.	-	391.	nc	0.92		0.0024	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.91		0.0004	
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.86		0.0005	
Chrysene	218-01-9	-	14.8	14.8	ca	0.66			4.5E-08
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.57	E		3.9E-06
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.56	E		3.8E-06
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc	0.51		0.0022	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.5		0.0001	3.2E-08
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.41	E		2.8E-05
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.31		0.	
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.23		0.0012	4.5E-08
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca	0.19	E		1.3E-06
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.16			1.1E-07
Silver	7440-22-4	391.	-	391.	nc	0.09		0.0002	
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca	0.082	E		5.5E-06
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.081		0.0055	

TP-3 8'-11'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

*Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.*

BRRTS #: 02-32-000195	# of Soil-Concentration Entries: 20	Number of Individual Exceedance 5	(Cumulative) Hazard Index 1.7485	(Cumulative) Cancer Risk 2.7E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used: 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.	nc	550.	E	1.375	
Barium	7440-39-3	15,300.	-	15,300.	nc	61.		0.004	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	11.	E	0.3207	1.8E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	3.		0.0429	1.4E-09
Selenium	7782-49-2	391.	-	391.	nc	0.43		0.0011	
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.2		0.0001	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.18		0.0001	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.15	E		1.0E-06
Chrysene	218-01-9	-	14.8	14.8	ca	0.14			9.5E-09
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.14		0.	9.0E-09
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc	0.13		0.0006	
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.1			6.8E-07
Silver	7440-22-4	391.	-	391.	nc	0.084		0.0002	
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.082	E		5.5E-06
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.059		0.	
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.053		0.0036	
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.041		0.0002	8.0E-09
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.034			2.3E-08
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca	0.034			2.3E-07
Dibenz[a,h]anthracene	53-70-3	-	0.015	0.015	ca	0.016	E		1.1E-06

TP-4 0'-4'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

*Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.*

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 22	Number of Individual Exceedance 7	(Cumulative) Hazard Index 3.1528	(Cumulative) Cancer Risk 6.8E-05
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.	nc	1,000.	E	2.5	
Barium	7440-39-3	15,300.	-	15,300.	nc	240.		0.0157	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	20.	E	0.5831	3.3E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.3		0.0186	6.2E-10
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.87		0.0005	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.81		0.0004	
Selenium	7782-49-2	391.	-	391.	nc	0.59		0.0015	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.51	E		3.4E-06
Chrysene	218-01-9	-	14.8	14.8	ca	0.49			3.3E-08
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.45	E		3.0E-06
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.44		0.0299	
Methylnaphthalene, 2-	91-57-6	229.	-	229.	nc	0.37		0.0016	
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.35	E		2.4E-05
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.35		0.0001	2.2E-08
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.31		0.	
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.2		0.0011	3.9E-08
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.18			1.2E-07
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.148	0.148	ca	0.17	E		1.1E-06
Acenaphthene	83-32-9	3,440.	-	3,440.	nc	0.1		0.	
Fluorene	86-73-7	2,290.	-	2,290.	nc	0.1		0.	

TP-4 8'-10'
ADDITIONAL INVESTIGATION - RUBBLE
former TRANE PLANT #6
LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 17	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Number of Individual Exceedance</td> <td style="width: 33%;">(Cumulative) Hazard Index</td> <td style="width: 33%;">(Cumulative) Cancer Risk</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">0.842</td> <td style="text-align: center;">5.3E-05</td> </tr> </table>	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk	4	0.842	5.3E-05
Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk						
4	0.842	5.3E-05						
Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.								

Date of Worksheet Used 06/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.	nc	31.		0.0775	
Barium	7440-39-3	15,300.	-	15,300.	nc	28.		0.0018	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	25.	E	0.7289	4.1E-05
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.4		0.02	6.6E-10
Selenium	7782-49-2	391.	-	391.	nc	0.49		0.0013	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.42		0.0002	
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.38		0.0002	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.32	E		2.2E-06
Chrysene	218-01-9	-	14.8	14.8	ca	0.3			2.0E-08
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.2		0.	
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.2		0.	1.3E-08
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.17		0.0116	
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.15	E		1.0E-06
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.14	E		9.5E-06
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.072		0.0004	1.4E-08
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca	0.071			4.8E-08
Silver	7440-22-4	391.	-	391.	nc	0.063		0.0002	

TP-5 0'-4'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

*Note: This Summary is OLD. Update with 'Get Summary' in Row 872 of the applicable *_DC_RCLs worksheet.*

BRRTS # : 02-32-000195	# of Soil-Concentration Entries: 16	Number of Individual Exceedance 4	(Cumulative) Hazard Index 4.1595	(Cumulative) Cancer Risk 1.1E-04
Bottom-Line: NOI This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct contact pathway.				

Date of Worksheet Used: 08/19/2013 List below is sorted with the largest soil concentration data on top.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.	nc	890.	E	2.225	
Barium	7440-39-3	15,300.	-	15,300.	nc	300.		0.0196	
Arsenic, Inorganic	7440-38-2	34.3	0.614	0.614	ca	64.	E	1.8659	1.0E-04
Cadmium (Diet)	7440-43-9	70.	2,110.	70.	nc	1.9		0.0271	9.0E-10
Selenium	7782-49-2	391.	-	391.	nc	0.39		0.001	
Mercury (elemental)	7439-97-6	14.7	-	3.13	Csat	0.29		0.0197	
Pyrene	129-00-0	1,720.	-	1,720.	nc	0.26		0.0002	
Fluoranthene	206-44-0	2,290.	-	2,290.	nc	0.22		0.0001	
Chrysene	218-01-9	-	14.8	14.8	ca	0.2			1.4E-08
Silver	7440-22-4	391.	-	391.	nc	0.2		0.0005	
Benz[a]anthracene	56-55-3	-	0.148	0.148	ca	0.19	E		1.3E-06
Methylnaphthalene, 1-	90-12-0	4,010.	15.6	15.6	ca	0.15		0.	9.6E-09
Anthracene	120-12-7	17,200.	-	17,200.	nc	0.12		0.	
Benzo[b]fluoranthene	205-99-2	-	0.148	0.148	ca	0.1			6.8E-07
Benzo[a]pyrene	50-32-8	-	0.015	0.015	ca	0.099	E		6.7E-06
Naphthalene	91-20-3	188.	5.15	5.15	ca	0.066		0.0004	1.3E-08

TP-5 8'-10'
 ADDITIONAL INVESTIGATION - RUBBLE
 former TRANE PLANT #6
 LA CROSSE, WI

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF. ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0056		0.0112			
Acetone	67-64-1	-	9,000.	1.847		3.6939			
Alachlor	15972-60-8	2.	2.	0.0017		0.0033			
Aldicarb	116-06-3	3.	10.	0.0025		0.005			
Aluminum	7429-90-5	-	200.	300.6452		601.2903			
Antimony	7440-36-0	6.	6.	0.271		0.542			
Anthracene	120-12-7	-	3,000.	98.3721		196.7442	0.3		
Arsenic	7440-38-2	10.	10.	0.292		0.584	20.	E	
Atrazine, total chlorinated residues	1912-24-9	3.	3.	0.002		0.0039			
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	38.		
Bentazon	25057-89-0	-	300.	0.0659		0.1319			
Benzene	71-43-2	5.	5.	0.0026		0.0051			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.84	E	
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48			
Beryllium	7440-41-7	4.	4.	3.16		6.32			
Boron	7440-42-8	-	1,000.	3.1994		6.3987			
Bromochloromethane (THM)	75-27-4	80.	0.6	0.0002		0.0003			
Bromoform (THM)	75-25-2	80.	4.4	0.0012		0.0023			
Bromomethane	74-83-9	-	10.	0.0025		0.0051			
Butylate	2008-41-5	-	400.	0.3882		0.7765			
Cadmium	7440-43-9	5.	5.	0.376		0.752	24.	E	
Carbaryl	63-25-2	-	40.	0.0364		0.0727			
Carbofuran	1563-66-2	40.	40.	0.0156		0.0312			
Carbon disulfide	75-15-0	-	1,000.	0.2965		0.593			
Carbon tetrachloride	56-23-5	5.	5.	0.0019		0.0039			
Chloramben	133-90-4	-	150.	0.0363		0.0727			
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942		5.7885			
Chloroethane	75-00-3	-	400.	0.1133		0.2266			
Chloroform (THM)	67-66-3	80.	6.	0.0017		0.0033			
Chlorpyrifos	2921-88-2	-	2.	0.0295		0.059			
Chloromethane	74-87-3	-	30.	0.0078		0.0155			
Chromium (total)	7440-47-3	100.	100.	180,000. No Cr-VI		360,000. If no Cr-VI	8.1	E	Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451	1.2	E	
Cobalt	7440-48-4	-	40.	1.812		3.6239			
Copper	7440-50-8	1,300.	1,300.	45.8		91.6			
Cyanazine	21725-46-2	-	1.	0.0005		0.0009			
Cyanide, free	57-12-5	200.	200.	2.02		4.04			
Dacthal (DCPA)	1861-32-1	-	70.	0.0856		0.1712			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80.	60.	0.016		0.032			
1,3-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05		0.0002			
Dibutyl phthalate	84-74-2	-	1,000.	2.5187		5.0375			
Dicamba	1918-00-9	-	300.	0.0776		0.1551			
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168			
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522			
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412		3.0825			
1,1-Dichloroethane	75-34-3	-	850.	0.2418		0.4836			
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028			
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0206		0.0412			
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294		0.0588			
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	0.0181		0.0362			
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033			
1,3-Dichloropropane (alltrans) (Telone)	542-75-6	-	0.4	0.0001		0.0003			
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44		2.88			
Dimethoate	60-51-5	-	2.	0.0005		0.0009			
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		0.0001			
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		0.0001			
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.89E-05		0.0001			
Dinoseb	88-85-7	7.	7.	0.0615		0.123			
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0006		0.0012			
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0808		0.1616			
EPTC	759-94-4	-	250.	0.132		0.264			

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance	02-32-000195
Ethylbenzene	100-41-4	700	700	0.785		1.57			
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000	0.2235		0.4471			
Ethylene glycol	107-21-1	-	14,000	2.8224		5.6447			
Fluoranthene	208-44-0	-	400	44.4089		88.8179	2.1		
Fluorene (PAH)	86-73-7	-	400	7.4074		14.8148	0.06		
Fluoride	7782-41-4	4,000	4,000	601		1,202			
Fluorotrichloroethane	75-89-4	-	3,490	2.2343		4.4605			
Formaldehyde	50-00-0	-	1,000	0.2019		0.4039			
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662			
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082			
Hexachlorobenzene	118-74-1	1	1	0.0126		0.0252			
n-Hexane	110-54-3	-	500	4.2213		8.4427			
Lead	7439-92-1	15	15	13.5		27	34	E	
Lindane	58-89-9	0.2	0.2	0.0012		0.0023			
Manganese	7439-96-5	-	300	19.5652		39.1304			
Mercury	7439-97-6	2	2	0.104		0.208	0.17		
Methanol	67-56-1	-	5,000	1.0128		2.0256			
Methoxychlor	72-43-5	40	40	2.16		4.32			
Methylene chloride	75-09-2	5	5	0.0013		0.0026			
Methyl ethyl ketone (MEK)	78-93-3	-	4,000	0.8391		1.6782			
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	0.1129		0.2257			
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60	0.0135		0.027			
Metachloro's Metolachlor	51218-45-2	-	100	0.1172		0.2344			
Metribuzin	21087-64-9	-	70	0.0214		0.0428			
Moodydenum	7439-98-7	-	40	0.8082		1.6165			
Monochlorobenzene	108-90-7	100	100	0.0679		0.1358			
Naphthalene	91-20-3	-	100	0.3294		0.6587	0.14		
Nickel	7440-02-0	-	100	6.5017		13.0033			
Nitrooxyphenylene (NOP)	86-30-6	-	7	0.0382		0.0764			
Pentachlorophenol (PCP)	87-86-5	1	1	0.0101		0.0202			
Phenol	108-95-2	-	2,000	1.1499		2.2998			
Picoram	1918-02-1	500	500	0.139		0.278			
Polyoxinated benzene (POB)	1336-36-3	0.5	0.03	0.0047		0.0094			
Prometon	1610-18-0	-	100	0.0475		0.0949			
Propazine	139-40-2	-	10	0.0089		0.0177			
Pyrene (PAH)	129-00-0	-	250	27.2362		54.4725			
Pyridine	110-85-1	-	10	0.0034		0.0069	2	E	
Selenium	7782-49-2	50	50	0.26		0.52	0.52	E	
Silver	7440-22-4	-	50	0.4249		0.8497	0.07		
Simazine	122-34-9	4	4	0.002		0.0039			
Styrene	100-42-5	100	100	0.11		0.22			
Tertiary Butyl Acetate (TBA)	75-65-0	-	12	0.0025		0.0049			
1,1,1,2-Tetrachloroethane	830-20-8	-	70	0.0267		0.0533			
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002			
Tetrachloroethylene (PCE)	127-18-4	5	5	0.0023		0.0045			
Tetrahydrofuran	109-99-9	-	50	0.0111		0.0222			
Thallium	7440-28-0	2	2	0.142		0.284			
Toluene	108-88-3	1,000	800	0.5535		1.1072			
Toxaphene	8001-35-2	3	3	0.464		0.928			
1,2,4-Trichlorobenzene	120-82-1	70	70	0.204		0.408			
1,1,1-Trichloroethane	71-55-6	200	200	0.0701		0.1402			
1,1,2-Trichloroethane	79-00-5	5	5	0.0018		0.0032			
Trichloroethylene (TCE)	79-01-6	5	5	0.0018		0.0036			
1,1,1,2,2-Pentachloroethane (1,1,1-PCE)	93-72-1	50	50	0.0275		0.055			
1,2,3-Trichloropropane	96-18-4	-	60	0.026		0.052			
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954			
Triphenylene (TPH) (1,2,3,4,5,6,7,8)	95-63-6 / 108-67-8	-	480	0.6897		1.3793			
Vanadium	7440-62-2	-	-	-		-			
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001			
Xylenes (m, o, p - combined)	1330-20-7	10,000	2,000	1.97		3.94			

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.
 Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-pigs.cmf.gov/cgi-bin/chemicals/csl_search)

TP-17-9

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0058			0.0112		
Acetone	67-64-1	-	9,000.	1.847			3.6939		
Alachlor	15972-90-8	2.	2.	0.0017			0.0033		
Aldicarb	116-06-3	3.	10.	0.0025			0.005		
Aluminum	7429-90-5	-	200.	300.6452			601.2903		
Antimony	7440-36-0	6.	6.	0.271			0.542		
Anthracene	120-12-7	-	3,000.	98.3721			196.7442	0.19	
Arsenic	7440-38-2	10.	10.	0.292			0.584	26.	E
Azinphosmethyl	1912-24-9	3.	3.	0.002			0.0039		
Barium	7440-39-3	2,000.	2,000.	82.4			164.8	32.	
Bentazon	25057-89-0	-	300.	0.0659			0.1319		
Benzene	71-43-2	5.	5.	0.0026			0.0051		
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235			0.47	0.25	
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24			0.48	0.29	
Beryllium	7440-41-7	4.	4.	3.16			6.32		
Boron	7440-42-8	-	1,000.	3.1994			6.3987		
Bromodifluoromethane (THM)	75-27-4	80	0.8	0.0002			0.0003		
Bromoform (THM)	75-25-2	80	4.4	0.0012			0.0023		
Bromomethane	74-83-9	-	10.	0.0025			0.0051		
Butylate	2008-41-5	-	400.	0.3882			0.7765		
Cadmium	7440-43-9	5.	5.	0.376			0.752	1.4	E
Carbaryl	63-26-2	-	40.	0.0364			0.0727		
Carbofuran	1563-66-2	40.	40.	0.0156			0.0312		
Carbon disulfide	75-15-0	-	1,000.	0.2965			0.593		
Carbon tetrachloride	56-23-5	5.	5.	0.0019			0.0039		
Chloramben	133-90-4	-	150.	0.0363			0.0727		
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942			5.7885		
Chloroethane	75-00-3	-	400.	0.1133			0.2266		
Chloroform (THM)	67-66-3	80	8.	0.0017			0.0033		
Chlorpyrifos	2921-88-2	-	2.	0.0295			0.059		
Chloromethane	74-87-3	-	30.	0.0078			0.0155		
Chromium (total)	7440-47-3	100.	100.	180,000. No Cr-VI		360,000. If no Cr-VI	7.	0.39	E
Chrysene (PAH)	218-01-9	-	0.2	0.0725			0.1451		Re-assess if Cr-VI present
Cobalt	7440-48-4	-	40.	1.812			3.6239		
Copper	7440-50-8	1,300.	1,300.	45.8			91.6		
Cyanazine	21725-46-2	-	1.	0.0005			0.0009		
Cyanide, free	57-12-5	200.	200.	2.02			4.04		
Dacthal (DCPA)	1861-32-1	-	70.	0.0856			0.1712		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05			2.82E-05		
Dibromochloromethane (THM)	124-48-1	60	60.	0.016			0.032		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05			0.0002		
Dibutyl phthalate	84-74-2	-	1,000.	2.5187			5.0375		
Dicamba	1918-00-9	-	300.	0.0776			0.1551		
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584			1.168		
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761			1.1522		
1,4-Dichlorobenzene	106-45-7	75.	75.	0.072			0.144		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412			3.0825		
1,1-Dichloroethane	75-34-3	-	850.	0.2418			0.4836		
1,2-Dichloroethane	107-06-2	5.	5.	0.0014			0.0028		
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025			0.005		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0206			0.0412		
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294			0.0588		
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	0.0181			0.0362		
1,2-Dichloropropane	78-87-5	5.	5.	0.0017			0.0033		
1,1,2,2-Tetrachloroethane (TCE)	542-75-6	-	0.4	0.0001			0.0003		
D-(2-cylohexyl) phthalate	117-81-7	6.	6.	1.44			2.88		
Dimethoate	60-51-5	-	2.	0.0005			0.0009		
2,4-Dinitrotoluene	121-14-2	-	0.05	8.76E-05			0.0001		
2,6-Dinitrotoluene	606-20-2	-	0.05	8.88E-05			0.0001		
Dinitrobenz. Total Residues	25321-14-6	-	0.05	8.89E-05			0.0001		
Dinoseb	88-85-7	7.	7.	0.0615			0.123		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0005			0.0012		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05			3.00E-05		
Endrin	72-20-8	2.	2.	0.0808			0.1616		
EPTC	759-94-4	-	250.	0.132			0.264		

No RSL result for: Asbestos; Bacaria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.
 Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-prgs.ornl.gov/cgi-bin/chemicals/cst_search)

TP-1 7-9'

02-32-000195

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000.	2.8224		5.6447		
Fluoranthene	206-44-0	-	400.	44.4089		88.8179	0.52	
Fluorene (PAH)	86-73-7	-	400.	7.4074		14.8148		
Fluoride	7782-41-4	4,000.	4,000.	601.		1,202.		
Fluorotrichloromethane	75-69-4	-	3,490.	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000.	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1.	1.	0.0126		0.0252		
n-Hexane	110-54-3	-	600.	4.2213		8.4427		
Lead	7439-92-1	15.	15.	13.5		27.	110.	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300.	19.5652		39.1304		
Mercury	7439-97-6	2.	2.	0.104		0.208	0.89	E
Methanol	67-56-1	-	5,000.	1.0128		2.0256		
Methoxychlor	72-43-5	40.	40.	2.16		4.32		
Methylene chloride	75-09-2	5.	5.	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	0.8391		1.6782		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	0.1129		0.2257		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	0.0135		0.027		
Metolachlor/s-Metolachlor	51218-45-2	-	100.	0.1172		0.2344		
Metribuzin	21087-64-9	-	70.	0.0214		0.0428		
Molybdenum	7439-98-7	-	40.	0.8082		1.6165		
Monochlorobenzene	108-90-7	100.	100.	0.0679		0.1358		
Naphthalene	91-20-3	-	100.	0.3294		0.6587	0.15	
Nickel	7440-02-0	-	100.	6.5017		13.0033		
N,N-Diisopropylamine (DIPA)	86-30-6	-	7.	0.0382		0.0764		
Pentachlorophenol (PCP)	87-86-5	1.	1.	0.0101		0.0202		
Phenol	108-95-2	-	2,000.	1.1499		2.2998		
Picloram	1918-02-1	500.	500.	0.139		0.278		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100.	0.0475		0.0949		
Propazine	139-40-2	-	10.	0.0089		0.0177		
Pyrene (PAH)	129-00-0	-	250.	27.2362		54.4725	0.59	
Pyridine	110-86-1	-	10.	0.0034		0.0069		
Selenium	7782-49-2	50.	50.	0.26		0.52	0.54	E
Silver	7440-22-4	-	50.	0.4249		0.8497	0.094	
Simazine	122-34-9	4.	4.	0.002		0.0039		
Styrene	100-42-5	100.	100.	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	0.0025		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	0.0267		0.0533		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50.	0.0111		0.0222		
Thallium	7440-28-0	2.	2.	0.142		0.284		
Toluene	108-88-3	1,000	800.	0.5536		1.1072		
Toxaphene	8001-35-2	3.	3.	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200.	200.	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5.	5.	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5.	5.	0.0018		0.0036		
1,1,1-Trichloropropane	93-72-1	50.	50.	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60.	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Triethylamine (1,2 and 1,3 combined)	95-63-6 / 108-67-8	-	480.	0.6897		1.3793		
Vanadium	7440-62-2	-	-	-		-		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m-, o-, p- combined)	1330-20-7	10,000	2,000.	1.97		3.94		

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.
 Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Res. Lts from: http://epa-prgs.com.gov/cgi-bin/chemicals/csl_search)

Samp: TP-2 0-4"

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2. or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Acetochlor	34256-82-1	-	7.	0.0056		0.0112		
Acetone	67-64-1	-	9,000.	1.847		3.6939		
Alachlor	15972-60-8	2	2.	0.0017		0.0033		
Aldicarb	116-05-3	3	10.	0.0025		0.005		
Aluminum	7429-90-5	-	200.	300.8452		601.2903		
Antimony	7440-35-0	6.	6.	0.271		0.642		
Anthracene	120-12-7	-	3,000.	98.3721		196.7442		
Arsenic	7440-38-2	10.	10.	0.292		0.584	2.3	E
Atrazine, total chlorinated residues	1912-24-9	3.	3.	0.002		0.0039		
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	42.	
Bentazon	25057-89-0	-	300.	0.0659		0.1319		
Benzene	71-43-2	5.	5.	0.0026		0.0051		
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.008	
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48	0.011	
Beryllium	7440-41-7	4.	4.	3.16		6.32		
Boron	7440-42-8	-	1,000.	3.1994		6.3987		
Bromodichloromethane (THM)	75-27-4	80	0.6	0.0022		0.0033		
Bromoform (THM)	75-25-2	80	4.4	0.0012		0.0023		
Bromomethane	74-83-9	-	10.	0.0025		0.0051		
Butylate	2008-41-5	-	400.	0.3882		0.7765		
Cadmium	7440-43-9	5.	5.	0.376		0.752	0.14	
Carbaryl	63-25-2	-	40.	0.0364		0.0727		
Carbofuran	1563-66-2	40.	40.	0.3156		0.0312		
Carbon disulfide	75-15-0	-	1,000.	0.2965		0.593		
Carbon tetrachloride	56-23-5	5.	5.	0.0019		0.0039		
Chloramben	133-90-4	-	150.	0.0363		0.0727		
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942		5.7885		
Chloroethane	75-00-3	-	400.	0.1133		0.2266		
Chloroform (THM)	67-66-3	80	8.	0.0017		0.0033		
Chlorpyrifos	2921-88-2	-	2.	0.0255		0.059		
Chloromethane	74-87-3	-	30.	0.0078		0.0155		
Chromium (total)	7440-47-3	100.	100.	100,000. No Cr-VI		300,000. If no Cr-VI	6.4	Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451		
Cobalt	7440-48-4	-	40.	1.812		3.6239		
Copper	7440-50-8	1,300.	1,300.	45.8		91.6		
Cyanazine	21725-45-2	-	1.	0.0005		0.0009		
Cyanide, free	57-12-5	200.	200.	2.02		4.04		
Daclath (DCPA)	1851-32-1	-	70.	0.0855		0.1712		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05		
Dibromochloromethane (THM)	124-48-1	80	60.	0.016		0.032		
1,2-Dioxane-3,5-dione (DOP)	95-12-8	0.2	0.2	8.64E-05		0.0002		
Dibutyl phthalate	84-74-2	-	1,000.	2.5187		5.0375		
Dicamba	1918-00-9	-	300.	0.0775		0.1551		
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168		
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522		
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412		3.0825		
1,1-Dichloroethane	75-34-3	-	850.	0.2419		0.4836		
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028		
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0205		0.0412		
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294		0.0588		
2,4-Dichlorophenoxy acid (2,4-D)	94-75-7	70.	70.	0.0181		0.0362		
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033		
1,1-Dichloropropene (DOPM)	542-75-6	-	0.4	0.0001		0.0003		
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44		2.88		
Dimethoate	60-51-5	-	2.	0.0005		0.0009		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		0.0001		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		0.0001		
Dieldrin, Total Residues	25321-14-6	-	0.05	6.89E-05		0.0001		
Dinoseb	88-85-7	7.	7.	0.0615		0.123		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0006		0.0012		
Dioxin (2,3,7,8-TCDD)	1745-01-6	3,00E-05	3.00E-05	1.50E-05		3.00E-05		
Endrin	72-20-8	2	2.	0.0608		0.1618		
EPTC	759-94-4	-	250.	0.132		0.264		

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.
 Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-prgs.orai.gov/cgi-bin/chemcats/csl_search)

Samp: TP-2 0-4

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000.	2.8224		5.6447		
Fluoranthene	206-44-0	-	400.	44.4069		88.8179		
Fluorene (PAH)	86-73-7	-	400.	7.4074		14.8148		
Fluoride	7782-41-4	4,000.	4,000.	601.		1,202.		
Fluorotrichloromethane	75-69-4	-	3,490.	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000.	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1.	1.	0.0126		0.0252		
n-Hexane	110-54-3	-	800.	4.2213		8.4427		
Lead	7439-92-1	15.	15.	13.5		27.	11.	
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300.	19.5652		39.1304		
Mercury	7439-97-6	2.	2.	0.104		0.208	0.029	
Methanol	67-56-1	-	5,000.	1.0123		2.0256		
Methoxychlor	72-43-5	40.	40.	2.16		4.32		
Methylene chloride	75-09-2	5.	5.	0.0913		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	0.8391		1.6782		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	0.1129		0.2257		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60.	0.0135		0.027		
Methoxychlor Methyl ester	51218-45-2	-	100.	0.1172		0.2344		
Metribuzin	21087-64-9	-	70.	0.0214		0.0428		
Molybdenum	7439-98-7	-	40.	0.8082		1.6165		
Monochlorobenzene	108-90-7	100.	100.	0.0679		0.1358		
Naphthalene	91-20-3	-	100.	0.3294		0.6587		
Nickel	7440-02-0	-	100.	6.5017		13.0033		
N,N-Dimethylphenylamine (DMPA)	86-30-6	-	7.	0.0382		0.0764		
Pentachlorophenol (PCP)	87-86-5	1.	1.	0.0101		0.0202		
Phenol	108-95-2	-	2,000.	1.1499		2.2998		
Picloram	1918-02-1	500.	500.	0.139		0.278		
Polybrominated biphenyls (PBBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100.	0.0475		0.0949		
Propazine	139-40-2	-	10.	0.0089		0.0177		
Pyrene (PAH)	129-00-0	-	250.	27.2362		54.4725		
Pyridine	110-86-1	-	10.	0.0034		0.0069		
Selenium	7782-49-2	50.	50.	0.26		0.52	0.4	
Silver	7440-22-4	-	50.	0.4249		0.8497	0.04	
Simazine	122-34-9	4.	4.	0.002		0.0039		
Styrene	100-42-5	100.	100.	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	0.0025		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	0.0267		0.0533		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5.	5	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50	0.0111		0.0222		
Thallium	7440-28-0	2.	2	0.142		0.284		
Toluene	108-88-3	1,000.	800.	0.5536		1.1072		
Toxaphene	8001-35-2	3.	3.	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200.	200.	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5.	5.	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5.	5.	0.0018		0.0035		
1,1,1,2,2-Pentachloroethane (PERC)	93-72-1	50.	50.	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60.	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Unsymmetrical DDT and DDE isomers	95-63-6 / 108-67-8	-	480.	0.6597		1.3793		
Vanadium	7440-62-2	-	-	-		-		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m-, o-, p- combinations)	1330-20-7	10,000	2,000.	1.97		3.94		

02-32-000195

NR RSL result for: Asbestos; Bacteria; 1,3-OCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-pgs.com/gov/cgi-bin/chemicals/csl_search)

Sample: TP-2 3'-10"

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2 or Input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0056			0.0112		
Acetone	67-64-1	-	9,000.	1.847			3.6939		
Alachlor	15972-60-8	2.	2.	0.0017			0.0033		
Ald carb	116-08-3	3.	10.	0.0025			0.005		
Aluminum	7429-93-5	-	200.	300.6452			601.2903		
Antimony	7440-35-0	5.	6.	0.271			0.542		
Anthracene	120-12-7	-	3,000.	98.3721			196.7442		
Arsenic	7440-38-2	10.	10.	0.292			0.584	22.	E
Atazine, 100 (DOPROBATED RESIDUE)	1912-24-9	3.	3.	0.002			0.0039		
Barium	7440-39-3	2,000.	2,000.	82.4		184.8	69.		
Benflazon	25057-89-0	-	300.	0.0659			0.1319		
Benzene	71-43-2	5.	5.	0.0026			0.0051		
Benz(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235			0.47	0.096	
Benz(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24			0.48	0.11	
Beryllium	7440-41-7	4.	4.	3.16			6.32		
Boron	7440-42-8	-	1,000.	3.1994			6.3987		
Bromodichloromethane (THM)	75-27-4	80	0.8	0.0002			0.0003		
Bromoform (THM)	75-25-2	80	4.4	0.0012			0.0023		
Bromomethane	74-83-9	-	10.	0.0025			0.0051		
Butylate	2008-41-5	-	400.	0.3882			0.7765		
Cadmium	7440-43-9	5.	5.	0.376			0.752	0.56	
Carbaryl	63-25-2	-	40.	0.0364			0.0727		
Carbofuran	1563-66-2	40.	40.	0.0156			0.0312		
Carbon disulfide	75-15-0	-	1,000.	0.2965			0.593		
Carbon tetrachloride	56-23-5	5.	5.	0.0019			0.0039		
Chloramben	133-90-4	-	150.	0.0363			0.0727		
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942			5.7885		
Chloroethane	75-00-3	-	400.	0.1133			0.2266		
Chloroform (THM)	67-66-3	80	6.	0.0017			0.0033		
Chlorpyrifos	2921-88-2	-	2.	0.0255			0.051		
Chloromethane	74-87-3	-	30.	0.0078			0.0155		
Chromium (total)	7440-47-3	100.	100.	160,000. No Cr-VI		360,000. If no Cr-VI	6.6		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725			0.1451	0.14	
Cobalt	7440-48-4	-	40.	1.812			3.6239		
Copper	7440-50-8	1,300.	1,300.	45.8			91.6		
Cyanazine	21725-46-2	-	1.	0.0005			0.0009		
Cyanide, free	57-12-5	200.	200.	2.02			4.04		
Dachal (DCPA)	1861-32-1	-	70.	0.0856			0.1712		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	80.	0.018			0.032		
1,2-Dibromoethane (DBE)	98-12-8	0.2	0.2	8.54E-05			0.0002		
Dibutyl phthalate	84-74-2	-	1,000.	2.5187			5.0375		
Dicamba	1918-00-9	-	300.	0.0776			0.1551		
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584			1.168		
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761			1.1522		
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072			0.144		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412			3.0825		
1,1-Dichloroethane	75-34-3	-	850.	0.2418			0.4836		
1,2-Dichloroethane	107-06-2	5.	5.	0.0014			0.0028		
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025			0.005		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0206			0.0412		
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294			0.0588		
2,4-Dichlorophenoxy acid (2,4-D)	94-75-7	70.	70.	0.0181			0.0362		
1,2-Dichloropropane	78-87-5	5.	5.	0.0017			0.0033		
1,3-Dichloropropane (DPCP)	542-75-6	-	0.4	0.0001			0.0003		
Di (2-ethylhexyl) phthalate	117-81-7	8.	6.	1.44			2.88		
Dimethoate	60-51-5	-	2.	0.0005			0.0009		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05			0.0001		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05			0.0001		
Dinitrobenzene, Total Residues	25321-14-6	-	0.05	6.89E-05			0.0001		
Dinoseb	88-88-7	7.	7.	0.0815			0.123		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0006			0.0012		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0008			0.0016		
EPTC	759-64-4	-	250.	0.132			0.264		

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.
 Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-prgs.com/govtgi-din/chemicals/csl_search)

Sample: TP-2 3-10

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000.	2.8224		5.6447		
Fluoranthene	206-44-0	-	400.	44.4089		88.8179	0.19	
Fluorene (PAH)	86-73-7	-	400.	7.4074		14.8148		
Fluoride	7782-41-4	4,000.	4,000.	601.		1,202.		
Fluorotrichloromethane	75-69-4	-	3,490.	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000.	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1.	1.	0.0126		0.0252		
n-Hexane	110-54-3	-	600.	4.2213		8.4427		
Lead	7439-92-1	15.	15.	13.5		27.	61.	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300.	19.5652		39.1304		
Mercury	7439-97-6	2.	2.	0.104		0.208	0.07	
Methanol	67-56-1	-	5,000.	1.0128		2.0256		
Methoxychlor	72-43-5	40.	40.	2.16		4.32		
Methylene chloride	75-09-2	5.	5.	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	0.8391		1.6782		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	0.1129		0.2257		
Methyl tertiarybutyl ether (MTBE)	1634-04-4	-	80.	0.0135		0.027		
Metolachlor/2-Metolachlor	51218-45-2	-	100.	0.1172		0.2344		
Metribuzin	21087-64-9	-	70.	0.0214		0.0428		
Molybdenum	7439-98-7	-	40.	0.8082		1.6165		
Monochlorobenzene	108-90-7	100.	100.	0.0679		0.1358		
Naphthalene	91-20-3	-	100.	0.3294		0.6587		
Nickel	7440-02-0	-	100.	6.5017		13.0033		
N,N-Diisopropylamine (DIPA)	86-30-6	-	7.	0.0382		0.0764		
Pentachlorophenol (PCP)	87-86-5	1.	1.	0.0101		0.0202		
Phenol	108-95-2	-	2,000.	1.1499		2.2998		
Picloram	1918-02-1	500.	500.	0.139		0.278		
Polybrominated biphenyls (PBBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100.	0.0475		0.0949		
Propazine	139-40-2	-	10.	0.0089		0.0177		
Pyrene (PAH)	129-00-0	-	250.	27.2362		54.4725	0.21	
Pyridine	110-86-1	-	10.	0.0034		0.0069		
Selenium	7782-49-2	50.	50.	0.26		0.52	0.39	
Silver	7440-22-4	-	50.	0.4249		0.8497	0.04	
Simazine	122-34-9	4.	4.	0.002		0.0039		
Styrene	100-42-6	100.	100.	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	0.0025		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	0.0267		0.0533		
1,1,1,2-Tetrachloroethane	78-34-6	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50.	0.0111		0.0222		
Thallium	7440-28-0	2.	2.	0.142		0.284		
Toluene	108-88-3	1,000.	800.	0.5536		1.1072		
Toxaphene	8001-35-2	3	3.	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	0.204		0.408		
1,1,1-Trichloroethane	71-55-8	200.	200.	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5.	5.	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5.	5.	0.0018		0.0036		
1,1,1-Trichloroethane (TCE)	93-72-1	50.	50.	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60.	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Vanadium	7440-62-2	-	480.	0.6897		1.3793		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m, o, p- combined)	1330-20-7	10,000	2,000	1.97		3.94		

02-32-000195

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - >	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000185
Acetochlor	34256-92-1	-	7.	0.0056		0.0112			
Acetone	67-64-1	-	9,000.	1.847		3.6939			
Alachlor	15972-60-8	2.	2.	0.0017		0.0033			
Aldicarb	116-06-3	3.	10.	0.0025		0.005			
Aluminum	7429-90-5	-	200.	300.6452		601.2903			
Antimony	7440-36-0	6.	6.	0.271		0.542			
Anthracene	120-12-7	-	3,000.	98.3721		196.7442	0.33		
Arsenic	7440-38-2	10.	10.	0.292		0.584	28.	E	
Azoxene, total (inorganic residues)	1912-24-9	3.	3.	0.002		0.0039			
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	36.		
Bentazon	25057-89-0	-	300.	0.0859		0.1319			
Benzene	71-43-2	5.	5.	0.0026		0.0051			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.35		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48	0.4		
Beryllium	7440-41-7	4.	4.	3.16		6.32			
Boron	7440-42-8	-	1,000.	3.1994		6.3987			
Bromochloromethane (THM)	75-27-4	80	0.6	0.0002		0.0003			
Bromoform (THM)	75-25-2	80	4.4	0.0012		0.0023			
Bromomethane	74-83-9	-	10.	0.0025		0.0051			
Butylate	2008-41-5	-	400.	0.3882		0.7765			
Cadmium	7440-43-9	5.	5.	0.376		0.752	1.3	E	
Carbaryl	63-25-2	-	40.	0.0364		0.0727			
Carbofuran	1563-66-2	40.	40.	0.0156		0.0312			
Carbon disulfide	75-15-0	-	1,000.	0.2966		0.593			
Carbon tetrachloride	56-23-5	5.	5.	0.0019		0.0039			
Chloramben	133-90-4	-	150.	0.0363		0.0727			
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942		5.7885			
Chloroethane	75-00-3	-	400.	0.1133		0.2266			
Chloroform (THM)	67-66-3	80	6.	0.0017		0.0033			
Chlorpyrifos	2921-88-2	-	2.	0.0265		0.059			
Chloromethane	74-87-3	-	30.	0.0078		0.0155			
Chromium (total)	7440-47-3	100.	100.	180,000. No Cr-VI		360,000. if no Cr-VI	5.3		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451	0.65	E	
Cobalt	7440-48-4	-	40.	1.812		3.6239			
Copper	7440-50-8	1,300.	1,300.	45.8		91.6			
Cyanazine	21725-46-2	-	1.	0.0005		0.0009			
Cyanide, free	57-12-5	200.	200.	2.02		4.04			
Dacthal (DCPA)	1851-32-1	-	70.	0.0856		0.1712			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dichloromethane (THM)	124-48-1	60	60.	0.016		0.032			
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05		0.0002			
Dibutyl phthalate	84-74-2	-	1,000.	2.5187		5.0375			
Dicamba	1918-00-9	-	300.	0.0775		0.1551			
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168			
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522			
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412		3.0825			
1,1-Dichloroethane	75-34-3	-	850.	0.2418		0.4836			
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028			
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0206		0.0412			
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0204		0.0588			
2,4-Dichlorophenoxy acid (DCA)	94-75-7	70.	70.	0.0181		0.0362			
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033			
1,1,2,2-Tetrachloroethane (DCE)	542-78-6	-	0.4	0.0001		0.0003			
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44		2.88			
Dimethoate	60-51-5	-	2.	0.0005		0.0009			
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		0.0001			
2,6-Dinitrotoluene	608-20-2	-	0.05	6.88E-05		0.0001			
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.89E-05		0.0001			
Dinoseb	88-85-7	7.	7.	0.0615		0.123			
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0006		0.0012			
Dioxin (2,3,7,8-TCDD)	1746-01-8	3,00E-05	3,00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0808		0.1616			
EPTC	759-94-4	-	250.	0.132		0.264			

02-32-000195

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2 or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700	700	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000	2.8224		5.6447		
Fluoranthene	206-44-0	-	400	44.4069		88.8179	0.88	
Fluorene (PAH)	86-73-7	-	400	7.4074		14.8148		
Fluoride	7782-41-4	4,000	4,000	601		1,202		
Fluorotrichloroethane	75-69-4	-	3,490	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1	1	0.0128		0.0252		
n-Hexane	110-54-3	-	600	4.2213		8.4427		
Lead	7439-92-1	15	15	13.5		27	34	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-95-5	-	300	19.5652		39.1304		
Mercury	7439-97-6	2	2	0.104		0.208	0.055	
Methanol	67-55-1	-	5,000	1.0128		2.0256		
Methoxychlor	72-43-5	40	40	2.16		4.32		
Methylene chloride	75-09-2	5	5	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000	0.8351		1.6702		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	0.1129		0.2257		
Methyl isobutyl ether (MIBE)	1634-04-4	-	90	0.0135		0.027		
Metolachlor's-Metolachlor	51218-45-2	-	100	0.1172		0.2344		
Metribuzin	21087-64-9	-	70	0.0214		0.0428		
Molybdenum	7439-98-7	-	40	0.8082		1.6165		
Monochlorobenzene	108-90-7	100	100	0.0679		0.1358		
Naphthalene	91-20-3	-	100	0.3294		0.6587	0.19	
Nickel	7440-02-0	-	100	6.5017		13.0033		
Nitrosodiphenylamine (NDPA)	86-30-6	-	7	0.0382		0.0764		
Pentachlorophenol (PCP)	87-86-5	1	1	0.0101		0.0202		
Phenol	108-95-2	-	2,000	1.1499		2.2998		
Picloram	1918-02-1	600	500	0.139		0.278		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100	0.0475		0.0949		
Propazine	139-40-2	-	10	0.0099		0.0197		
Pyrene (PAH)	129-00-0	-	250	27.2362		54.4725	0.96	
Pyridine	110-86-1	-	10	0.0034		0.0069		
Selenium	7782-49-2	50	50	0.26		0.52	0.96	E
Silver	7440-22-4	-	50	0.4249		0.8497	0.12	
Simazine	122-34-9	4	4	0.002		0.0039		
Styrene	100-42-5	100	100	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	0.0025		0.0049		
1,1,1-Tetrachloroethane	630-20-6	-	70	0.0267		0.0533		
1,1,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5	5	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50	0.0111		0.0222		
Thallium	7440-28-0	2	2	0.142		0.284		
Toluene	108-88-3	1,000	800	0.5536		1.1072		
Toxaphene	8001-35-2	3	3	0.454		0.928		
1,2,4-Trichlorobenzene	120-82-1	70	70	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200	200	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5	5	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5	5	0.0018		0.0036		
1,1,1-Trichloropropane (TCTP)	93-72-1	50	50	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Trinitrobenzene (2,4 and 3,5 isomers)	55-63-5 / 108-67-8	-	480	0.6897		1.3793		
Vanadium	7440-62-2	-	-	-		-		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m-, o-, p- combined)	1330-20-7	10,000	2,000	1.97		3.94		

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Fed, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - >	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0056		0.0112			
Acetone	67-64-1	-	9,000.	1.847		3.6939			
Alachlor	15972-60-8	2.	2.	0.0017		0.0033			
Ald carb	116-05-3	3.	10.	0.0025		0.005			
Aluminum	7429-90-5	-	200.	300.6452		601.2903			
Antimony	7440-38-0	5.	6.	0.271		0.542			
Anthracene	120-12-7	-	3,000.	98.3721		196.7442	0.31		
Arsenic	7440-39-2	10.	10.	0.292		0.584	21.	E	
Azoxa, total inorganic residues	1912-24-9	3.	3.	0.002		0.0039			
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	67.		
Bentazon	25057-89-0	-	300.	0.0659		0.1319			
Benzene	71-43-2	5.	5.	0.0026		0.0051			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.41		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48	0.56	E	
Beryllium	7440-41-7	4.	4.	3.16		6.32			
Boron	7440-42-8	-	1,000.	3.1954		6.3907			
Bromochloromethane (THM)	75-27-4	80	0.6	0.0002		0.0003			
Bromoform (THM)	75-25-2	80	4.4	0.0012		0.0023			
Bromomethane	74-83-9	-	10.	0.0025		0.0051			
Butylate	2008-41-5	-	400.	0.3882		0.7765			
Cadmium	7440-43-9	5.	5.	0.376		0.752	1.8	E	
Carbaryl	63-25-2	-	40.	0.0364		0.0727			
Carbofuran	1563-66-2	40.	40.	0.0156		0.0312			
Carbon disulfide	75-15-0	-	1,000.	0.2965		0.593			
Carbon tetrachloride	56-23-5	5.	5.	0.0019		0.0039			
Chloramben	133-90-4	-	150.	0.0363		0.0727			
Chloroacfluoromethane	75-45-6	-	7,000.	2.8942		5.7885			
Chloroethane	75-00-3	-	400.	0.1133		0.2266			
Chloroform (THM)	67-65-3	80	5.	0.0017		0.0033			
Chlorpyrifos	2921-88-2	-	2.	0.0255		0.059			
Chloromethane	74-87-3	-	30.	0.0078		0.0155			
Chromium (total)	7440-47-3	100.	100.	180,000. No Cr-VI		360,000. If no Cr-VI	6.3		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451	0.65	E	
Cobalt	7440-48-4	-	40.	1.812		3.6239			
Copper	7440-50-8	1,300.	1,300.	45.8		91.6			
Cyanazine	21725-46-2	-	1.	0.0005		0.0009			
Cyanide, free	57-12-5	200.	200.	2.02		4.04			
Daclnal (DCPA)	1861-32-1	-	70.	0.0858		0.1712			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	50.	0.016		0.032			
1,1-Dichloroethane (DCE)	96-12-8	0.2	0.2	8.64E-05		0.0002			
Dibutyl phthalate	84-74-2	-	1,000.	2.5187		5.0375			
Dicamba	1918-00-9	-	300.	0.0778		0.1551			
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168			
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522			
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412		3.0825			
1,1-Dichloroethane	75-34-3	-	850.	0.2418		0.4836			
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028			
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0208		0.0412			
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0254		0.0508			
2-Chlorobenzoic acid (PAC)	94-75-7	70.	70.	0.0191		0.0382			
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033			
1,1,2-Trichloroethane (THM)	542-75-6	-	0.4	0.0001		0.0003			
D (2-ethyl hexyl) phthalate	117-81-7	6.	6.	1.44		2.88			
Dimethoate	60-51-5	-	2.	0.0005		0.0009			
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		0.0001			
2,6-Dinitrotoluene	605-20-2	-	0.05	6.88E-05		0.0001			
Disulfoton, Total Residues	25321-14-6	-	0.05	6.89E-05		0.0001			
Disoseb	88-85-7	7.	7.	0.0615		0.123			
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0003		0.0006			
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0808		0.1616			
EPTC	759-94-4	-	250.	0.132		0.264			

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
02-32-000195								
Ethylbenzene	100-41-4	700.	700.	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000.	2.8224		5.6447		
Fluoranthene	206-44-0	-	400.	44.4089		88.8179	0.91	
Fluorene (PAH)	86-73-7	-	400.	7.4074		14.8148	0.069	
Fluoride	7782-41-4	4,000.	4,000.	601.		1,202.		
Fluorotrichloroethane	75-69-4	-	3,490.	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000.	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1.	1.	0.0128		0.0252		
n-Hexane	110-54-3	-	600.	4.2213		8.4427		
Lead	7439-92-1	15.	15.	13.5		27.	200.	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300.	19.5652		39.1304		
Mercury	7439-97-6	2.	2.	0.104		0.208	0.081	
Methanol	67-56-1	-	5,000.	1.0128		2.0256		
Methoxychlor	72-43-5	40.	40.	2.16		4.32		
Methylene chloride	75-09-2	5.	5.	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	0.8391		1.6782		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	0.1129		0.2257		
Methyl tert butyl ether (MTBE)	1634-04-4	-	90.	0.0135		0.027		
Metolachlor	51218-45-2	-	100.	0.1172		0.2344		
Metribuzin	21087-64-9	-	70.	0.0214		0.0428		
Molybdenum	7439-98-7	-	40.	0.8082		1.6165		
Monochlorobenzene	108-90-7	100.	100.	0.0679		0.1358		
Naphthalene	91-20-3	-	100.	0.3294		0.6587		
Nickel	7440-02-0	-	100.	6.5017		13.0033		
Nitrosodiphenylamine (NDPA)	86-30-6	-	7.	0.0382		0.0764		
Pentachloroethanol (PCE)	87-86-5	1.	1.	0.0101		0.0202		
Phenol	108-95-2	-	2,000.	1.1499		2.2998		
Picloram	1918-02-1	500.	500.	0.139		0.278		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100.	0.0475		0.0949		
Propazine	139-40-2	-	10.	0.0069		0.0177		
Pyrene (PAH)	129-00-0	-	250.	27.2362		54.4725	0.66	
Pyridine	110-86-1	-	10.	0.0034		0.0069		
Selenium	7782-49-2	50.	50.	0.26		0.52	0.92	E
Silver	7440-22-4	-	50.	0.4249		0.8497	0.09	
Simazine	122-34-9	4.	4.	0.002		0.0039		
Styrene	100-42-5	100.	100.	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	0.0025		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	0.0267		0.0533		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50.	0.0111		0.0222		
Thallium	7440-28-0	2.	2.	0.142		0.284		
Toluene	108-88-3	1,000	800.	0.5536		1.1072		
Toxaphene	8001-35-2	3.	3.	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200.	200.	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5.	5.	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5.	5.	0.0018		0.0036		
1,1,2,2-Tetrachloroethane (K100)	93-72-1	50.	50.	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60.	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Trichloroethylene (K100)	95-63-6 / 108-87-8	-	480.	0.6897		1.3793		
Vanadium	7440-62-2	-	-	-		-		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m-, o-, p- combined)	1330-20-7	10,000	2,000.	1.97		3.94		

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-prgs.com/gov/cgi-bin/chemcats/est_search)

TP-4 01-4

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - >	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0068		0.0112			
Acetone	67-84-1	-	9,000.	1.847		3.6939			
Alachlor	15972-80-8	2.	2.	0.0017		0.0033			
Aldicarb	116-05-3	3.	10.	0.0025		0.005			
Aluminum	7429-90-5	-	200.	300.6452		601.2903			
Antimony	7440-36-0	6.	6.	0.271		0.542			
Anthracene	120-12-7	-	3,000.	98.3721		196.7442	0.059		
Arsenic	7440-38-2	10.	10.	0.292		0.584	11.	E	
Azinphos methyl	1912-24-9	3.	3.	0.002		0.0039			
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	61.		
Bentazon	25057-89-0	-	300.	0.0659		0.1319			
Benzene	71-43-2	5.	5.	0.0025		0.0051			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.082		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48	0.1		
Beryllium	7440-41-7	4.	4.	3.16		6.32			
Boron	7440-42-8	-	1,000.	3.1994		6.3987			
Bromochloromethane (THM)	75-27-4	80	0.6	0.0002		0.0003			
Bromoforn (THM)	75-25-2	80	4.4	0.0012		0.0023			
Bromomethane	74-83-9	-	10.	0.0025		0.0051			
Butylate	2008-41-5	-	400.	0.3882		0.7765			
Cadmium	7440-43-9	5.	5.	0.376		0.752	3.	E	
Carbaryl	63-25-2	-	40.	0.0364		0.0727			
Carbofuran	1563-66-2	40.	40.	0.0156		0.0312			
Carbon disulfide	75-15-0	-	1,000.	0.2965		0.593			
Carbon tetrachloride	56-23-5	5.	5.	0.0019		0.0039			
Chloramben	133-90-4	-	150.	0.0363		0.0727			
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942		5.7885			
Chloroethane	75-00-3	-	400.	0.1133		0.2266			
Chloroform (THM)	67-66-3	80	8.	0.0017		0.0033			
Chlorpyrifos	2921-88-2	-	2.	0.0295		0.059			
Chloromethane	74-87-3	-	30.	0.0078		0.0155			
Chromium (total)	7440-47-3	100.	100.	180,000. No Cr-VI		360,000. If no Cr-VI	13.		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451	0.14		
Cobalt	7440-48-4	-	40.	1.812		3.6239			
Copper	7440-50-8	1,300.	1,300.	45.8		91.6			
Cyanazine	21725-46-2	-	1.	0.0005		0.0009			
Cyanide, free	57-12-5	200.	200.	2.02		4.04			
Dacthal (DCPA)	1861-32-1	-	70.	0.0856		0.1712			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	80.	0.016		0.032			
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05		0.0002			
Dibutyl phthalate	84-74-2	-	1,000.	2.6187		5.0375			
Dicamba	1918-00-9	-	300.	0.0775		0.1551			
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168			
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522			
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144			
Dichlorodifluoroethane	75-71-8	-	1,000.	1.5412		3.0825			
1,1-Dichloroethane	75-34-3	-	850.	0.2418		0.4836			
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028			
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0205		0.0412			
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294		0.0588			
2,4-Dichlorophenoxypropyl ether (2,4-DCPPE)	94-75-7	70.	70.	0.0181		0.0362			
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033			
1,3-Dichloropropane (Bisone)	542-75-6	-	0.4	0.0001		0.0003			
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44		2.88			
Dimethoate	60-51-5	-	2.	0.0005		0.0009			
2,4-Dinitrotoluene	121-14-2	-	0.05	5.76E-05		0.0001			
2,6-Dinitrotoluene	606-20-2	-	0.05	8.88E-05		0.0001			
Dinitrobenz. Total Residues	25321-14-6	-	0.05	8.89E-05		0.0001			
Dinoseb	88-85-7	7.	7.	0.0615		0.123			
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0003		0.0012			
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0803		0.1616			
EPTC	759-94-4	-	250.	0.132		0.264			

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Ethylbenzene	100-41-4	700	700	0.785		1.57			
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000	0.2235		0.4471			
Ethylene glycol	107-21-1	-	14,000	2.8224		5.6447			
Fluoranthene	206-44-0	-	400	44.4089		88.8179	0.18		
Fluorene (PAH)	86-73-7	-	400	7.4074		14.8148			
Fluoride	7782-41-4	4,000	4,000	601		1,202			
Fluoromethane	75-69-4	-	3,490	2.2343		4.4685			
Formaldehyde	50-00-0	-	1,000	0.2019		0.4039			
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662			
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082			
Hexachlorobenzene	118-74-1	1	1	0.0126		0.0252			
n-Hexane	110-54-3	-	600	4.2213		8.4427			
Lead	7439-92-1	15	15	13.5		27	550	E	
Lindane	58-89-9	0.2	0.2	0.0012		0.0023			
Manganese	7439-96-5	-	300	19.5652		39.1304			
Mercury	7439-97-6	2	2	0.104		0.208	0.053		
Methanol	67-56-1	-	5,000	1.0128		2.0256			
Methoxychlor	72-43-5	40	40	2.16		4.32			
Methylene chloride	75-09-2	5	5	0.0013		0.0026			
Methyl ethyl ketone (MEK)	78-93-3	-	4,000	0.8391		1.6782			
Methylisobutyl ketone (MIBK)	108-10-1	-	500	0.1129		0.2257			
Methyltert-butyl ether (MTBE)	1634-04-4	-	60	0.0136		0.027			
Metolachlor's Metolachlor	51218-45-2	-	100	0.1172		0.2344			
Metribuzin	21087-64-9	-	70	0.0214		0.0428			
Molybdenum	7439-98-7	-	40	0.8082		1.6165			
Monochlorobenzene	108-90-7	100	100	0.0679		0.1358			
Naphthalene	91-20-3	-	100	0.3294		0.6587	0.041		
Nickel	7440-02-0	-	100	6.5017		13.0033			
Nitrooxyphenylene (NOPA)	86-30-6	-	7	0.0382		0.0764			
Parachlorophenol (PCP)	87-86-5	1	1	0.0101		0.0202			
Phenol	108-95-2	-	2,000	1.1499		2.2998			
Picramic acid	1918-02-1	500	500	0.139		0.278			
Polyvinylpyrrolidone (PVP)	1336-36-3	0.5	0.03	0.0047		0.0094			
Prometon	1610-18-0	-	100	0.0475		0.0949			
Propazine	139-49-2	-	10	0.0089		0.0177			
Pyrene (PAH)	129-00-0	-	250	27.2362		54.4725	0.2		
Pyridine	110-89-1	-	10	0.0034		0.0069			
Selenium	7782-49-2	50	50	0.26		0.52	0.43		
Silver	7440-22-4	-	50	0.4249		0.8497	0.084		
Simazine	122-34-9	4	4	0.002		0.0039			
Styrene	100-42-5	100	100	0.11		0.22			
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	0.0025		0.0049			
1,1,1,2-Tetrachloroethane	630-20-6	-	70	0.0267		0.0533			
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002			
Tetrachloroethylene (PCE)	127-18-4	5	5	0.0023		0.0045			
Tetrahydrofuran	109-99-9	-	50	0.0111		0.0222			
Thallium	7440-28-0	2	2	0.142		0.284			
Toluene	108-88-3	1,000	800	0.5536		1.1072			
Toxaphene	8001-35-2	3	3	0.464		0.928			
1,2,4-Trichlorobenzene	120-82-1	70	70	0.204		0.408			
1,1,1-Trichloroethane	71-55-6	200	200	0.0701		0.1402			
1,1,2-Trichloroethane	79-00-5	5	5	0.0016		0.0032			
Trichloroethylene (TCE)	79-01-6	5	5	0.0018		0.0036			
1,2-Dichloroethane (DCE)	93-72-1	50	50	0.0275		0.055			
1,2,3-Trichloropropane	95-18-4	-	60	0.026		0.052			
Trifluralin	1552-09-8	-	7.5	0.2477		0.4954			
Trinitrobenzene (2,4,6-trinitro)	95-63-6 / 108-67-8	-	480	0.6897		1.3793			
Vanadium	7440-62-2	-	-	-		-			
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001			
Xylenes (m-, p-, o- combined)	1330-20-7	10,000	2,000	1.97		3.94			

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenic Results from: http://epa-prgs.onrl.gov/cgi-bin/chemicals/csl_search)

TP-4 8'-10'

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Fed. MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0056			0.0112		
Acetone	67-64-1	-	9,000.	1.847			3.6939		
Alachlor	15972-80-8	2.	2.	0.0017			0.0033		
Aldicarb	116-06-3	3.	10.	0.0025			0.005		
Aluminum	7429-90-5	-	200.	300.6452			601.2903		
Antimony	7440-39-0	6.	6.	0.271			0.542		
Anthracene	120-12-7	-	3,000.	98.3721			196.7442	0.31	
Arsenic	7440-38-2	10.	10.	0.292			0.584	20.	E
Athene, total chlorinated	1912-24-9	3.	3.	0.002			0.0039		
Barium	7440-39-3	2,000.	2,000.	82.4			164.8	240.	E
Bentazon	25057-89-0	-	300.	0.0659			0.1319		
Benzene	71-43-2	5.	5.	0.0028			0.0051		
Benzofluoranthene (PAH)	50-32-8	0.2	0.2	0.235			0.47	0.35	
Benzofluoranthene (PAH)	205-99-2	-	0.2	0.24			0.48	0.45	
Beryllium	7440-41-7	4.	4.	3.16			6.32		
Boron	7440-42-8	-	1,000.	3.1994			6.3987		
Bromodifluoromethane (THM)	75-27-4	80	0.6	0.0002			0.0003		
Bromomethane (THM)	75-25-2	80	4.4	0.0012			0.0023		
Bromomethane	74-83-9	-	10.	0.0025			0.0051		
Butylate	2008-41-5	-	400.	0.3882			0.7765		
Cadmium	7440-43-9	5.	5.	0.378			0.752	1.3	E
Carbaryl	63-25-2	-	40.	0.0364			0.0727		
Carbofuran	1563-66-2	40.	40.	0.0156			0.0312		
Carbon disulfide	75-16-0	-	1,000.	0.2965			0.593		
Carbon tetrachloride	56-23-5	5.	5.	0.0019			0.0039		
Chloramben	133-90-4	-	150.	0.0363			0.0727		
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942			5.7885		
Chloroethane	75-00-3	-	400.	0.1133			0.2266		
Chloroform (THM)	67-66-3	80	6.	0.0017			0.0033		
Chlorpyrifos	2921-88-2	-	2.	0.0295			0.059		
Chloromethane	74-87-3	-	30.	0.0078			0.0156		
Chromium (total)	7440-47-3	100.	100.	150,000. No Cr-VI		350,000 If no Cr-VI	12.	0.49	E
Chrysene (PAH)	218-01-9	-	0.2	0.0725			0.1451		Re-assess if Cr-VI present
Cobalt	7440-48-4	-	40.	1.812			3.6239		
Copper	7440-50-8	1,300.	1,300.	45.8			91.6		
Cyanazine	21725-46-2	-	1.	0.0005			0.0009		
Cyanide, free	57-12-5	200.	200.	2.02			4.04		
Dacthal (DCPA)	1861-32-1	-	70.	0.0856			0.1712		
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	60.	0.016			0.032		
1,2-Dibromo-3-chloroethane (DBCP)	96-12-8	0.2	0.2	8.64E-05			0.0002		
Dibutyl phthalate	84-74-2	-	1,000.	2.5187			5.0376		
Dicamba	1918-00-9	-	300.	0.0776			0.1551		
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584			1.168		
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761			1.1522		
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072			0.144		
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412			3.0825		
1,1-Dichloroethane	75-34-3	-	850.	0.2418			0.4836		
1,2-Dichloroethane	107-06-2	5.	5.	0.0014			0.0028		
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025			0.005		
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0206			0.0412		
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294			0.0588		
1,4-Dioxaphenoxycane acid (DLC)	94-75-7	70.	70.	0.0181			0.0362		
1,2-Dichloropropane	78-87-5	5.	5.	0.0017			0.0033		
1,6-Dichlorocyclohexane (Hexachlorocyclohexane)	542-75-6	-	0.4	0.0001			0.0003		
Di (2-ethylhexyl) phtalate	117-81-7	5.	5.	1.44			2.88		
Dimethoate	60-51-5	-	2.	0.0005			0.0009		
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05			0.0001		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05			0.0001		
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.85E-05			0.0001		
Dinoseb	88-85-7	7.	7.	0.0615			0.123		
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0006			0.0012		
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0808			0.1616		
EPTC	759-94-4	-	250.	0.132			0.264		

02-32-000195

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2 or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700	700	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000	2.8224		5.6447		
Fluoranthene	206-44-0	-	400	44.4069		88.8179	0.81	
Fluorene (PAH)	86-73-7	-	400	7.4074		14.8148	0.1	
Fluoride	7782-41-4	4,000	4,000	801		1,202		
Fluorochloromethane	75-69-4	-	3,490	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1	1	0.0128		0.0256		
n-Hexane	110-54-3	-	600	4.2213		8.4427		
Lead	7439-92-1	15	15	13.5		27	1,000	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300	19.5652		39.1304		
Mercury	7439-97-6	2	2	0.104		0.208	0.44	E
Methanol	67-55-1	-	5,000	1.0128		2.0256		
Methoxychlor	72-43-5	40	40	2.16		4.32		
Methylene chloride	75-09-2	5	5	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000	0.8361		1.6722		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	0.1128		0.2257		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	80	0.0135		0.027		
Methoxychlor-Methoxychlor	51218-45-2	-	100	0.1172		0.2344		
Metribuzin	21087-84-9	-	70	0.0214		0.0428		
Molybdenum	7439-98-7	-	40	0.8082		1.6165		
Monochlorobenzene	108-90-7	100	100	0.0679		0.1359		
Naphthalene	91-20-3	-	100	0.3284		0.6567	0.2	
Nickel	7440-02-0	-	100	6.5017		13.0033		
n-Nonadecane (C19H40)	86-30-6	-	7	0.0382		0.0764		
Nonachlorophenol (NCP)	87-86-5	1	1	0.0121		0.0242		
Phenol	108-95-2	-	2,000	1.1489		2.2978		
Picloram	1918-02-1	500	500	0.139		0.278		
Polybrominated biphenyls (PBBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100	0.0475		0.0949		
Propazine	139-40-2	-	10	0.0089		0.0177		
Pyrene (PAH)	129-00-0	-	250	27.2382		54.4725	0.87	
Pyridine	110-86-1	-	10	0.0034		0.0069		
Selenium	7782-49-2	50	50	0.26		0.52	0.59	E
Silver	7440-22-4	-	50	0.4249		0.8497	0.1	
Simazine	122-34-9	4	4	0.002		0.0039		
Styrene	100-42-5	100	100	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	0.0025		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70	0.0267		0.0533		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5	5	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50	0.0111		0.0222		
Thallium	7440-28-0	2	2	0.142		0.284		
Toluene	108-88-3	1,000	800	0.5536		1.1072		
Toxaphene	8001-35-2	3	3	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70	70	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200	200	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5	5	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5	5	0.0018		0.0036		
1,1,1,2,2-Pentachloroethane (PERC)	93-72-1	50	50	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Trichloroethylene (TCE) combined	65-63-6 / 108-67-8	-	480	0.8897		1.7793		
Vanadium	7440-62-2	-	-	-		-		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m-, o-, p- combined)	1330-20-7	10,000	2,000	1.97		3.94		

Residual Contaminant Levels Protective of Groundwater Quality
 (Soil-to-Groundwater Scenario Results from: http://epa-prgs.oai.gov/cgi-bin/cf/chemicals/csl_search)

TP-5 0-4

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2 or input the calculated site-specific DF ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0056		0.0112			
Acetone	67-64-1	-	9,000.	1.847		3.6939			
Alachlor	15972-60-8	2.	2.	0.0017		0.0033			
Aldicarb	116-08-3	3.	10.	0.0025		0.005			
Aluminum	7429-90-5	-	200.	300.6452		601.2903			
Antimony	7440-38-0	6.	6.	0.271		0.542			
Anthracene	120-12-7	-	3,000.	98.3721		196.7442	0.2		
Arsenic	7440-39-2	10.	10.	0.292		0.584	25.	E	
Asbestos, total inorganic residues	1912-24-9	3.	3.	0.002		0.0039			
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	28.		
Bentazon	25057-89-0	-	300.	0.0659		0.1319			
Benzene	71-43-2	5.	5.	0.0026		0.0051			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.14		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48	0.15		
Beryllium	7440-41-7	4.	4.	3.16		6.32			
Boron	7440-42-8	-	1,000.	3.1954		6.3907			
Endosulfotrisulfone (THM)	75-27-4	80	0.6	0.0002		0.0003			
Bromoform (THM)	75-25-2	80	4.4	0.0012		0.0023			
Bromomethane	74-83-9	-	10.	0.0025		0.0051			
Butylate	2008-41-5	-	400.	0.3882		0.7765			
Cadmium	7440-43-9	5.	5.	0.376		0.752	1.4	E	
Carbaryl	63-25-2	-	40.	0.0364		0.0727			
Carbofuran	1563-65-2	40.	40.	0.0156		0.0312			
Carbon disulfide	75-15-0	-	1,000.	0.2966		0.593			
Carbon tetrachloride	55-23-5	5.	5.	0.0019		0.0039			
Chloramben	133-90-4	-	150.	0.0363		0.0727			
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942		5.7885			
Chloroethane	75-00-3	-	400.	0.1133		0.2266			
Chloroform (THM)	67-66-3	80	6.	0.0017		0.0033			
Cisoprynicol	2921-88-2	-	2.	0.0255		0.059			
Chloromethane	74-87-3	-	30.	0.0078		0.0155			
Chromium (total)	7440-47-3	100.	100.	180,000. No Cr-VI		360,000. If no Cr-VI	7.7		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451	0.3	E	
Cobalt	7440-48-4	-	40.	1.812		3.6239			
Copper	7440-50-8	1,300.	1,300.	45.8		91.6			
Cyanazine	21725-48-2	-	1.	0.0005		0.0009			
Cyanide, free	57-12-5	200.	200.	2.02		4.04			
Dacthal (DCPA)	1881-32-1	-	70.	0.0856		0.1712			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	50.	0.016		0.032			
1,1-Dibromo-2,2,2-trichloroethane (DBCP)	96-12-8	0.2	0.2	8.64E-05		0.0002			
Dibutyl phthalate	84-74-2	-	1,000.	2.5187		5.0375			
Dicamba	1918-00-9	-	300.	0.0776		0.1551			
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168			
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522			
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412		3.0825			
1,1-Dichloroethane	75-34-3	-	850.	0.2418		0.4836			
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028			
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0206		0.0412			
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0254		0.0508			
1,1-Dichloroethoxy acid (DDE)	94-75-7	70.	70.	0.0181		0.0362			
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033			
1,1-Dichloro-2,2,2-trifluoroethane (perfluoro)	542-75-6	-	0.4	0.0001		0.0003			
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44		2.88			
Dimethoate	60-51-5	-	2.	0.0005		0.0009			
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		0.0001			
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		0.0001			
Dinitrobenzene, Total Residues	25321-14-6	-	0.05	6.86E-05		0.0001			
Dinoseb	88-85-7	7.	7.	0.0615		0.123			
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0008		0.0012			
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Endrin	72-20-8	2.	2.	0.0808		0.1616			
EPTC	759-94-4	-	250.	0.132		0.264			

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
02-32-000195								
Ethylbenzene	100-41-4	700.	700.	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000.	2.8224		5.6447		
Fluoranthene	206-44-0	-	400.	44.4089		88.8179	0.42	
Fluorene (PAH)	86-73-7	-	400.	7.4074		14.8148		
Fluoride	7782-41-4	4,000.	4,000.	601.		1,202.		
Fluorochloromethane	75-69-4	-	3,490.	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000.	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1.	1.	0.0126		0.0252		
n-Hexane	110-54-3	-	600.	4.2213		8.4427		
Lead	7439-92-1	15.	15.	13.6		27.	31.	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300.	19.5652		39.1304		
Mercury	7439-97-6	2.	2.	0.104		0.208	0.17	
Methanol	67-56-1	-	5,000.	1.0128		2.0256		
Methoxychlor	72-43-5	40.	40.	2.16		4.32		
Methylene chloride	75-09-2	5.	5.	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	0.8391		1.6782		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500.	0.1129		0.2257		
Methyl tert-butyl ether (MTBE)	1534-04-4	-	90.	0.0135		0.027		
Metolachlor's Metolachlor	51218-45-2	-	100.	0.1172		0.2344		
Metribuzin	21087-64-9	-	70.	0.0214		0.0428		
Molybdenum	7439-98-7	-	40.	0.8082		1.6165		
Monochlorobenzene	108-90-7	100.	100.	0.0679		0.1358		
Naphthalene	91-20-3	-	100.	0.3294		0.6587	0.072	
Nickel	7440-02-0	-	100.	6.5017		13.0033		
Nitroazobenzene (NAB)	86-30-6	-	7.	0.0382		0.0764		
Pentachlorophenol (PCPP)	87-86-5	1.	1.	0.0101		0.0202		
Phenol	108-95-2	-	2,000.	1.1499		2.2998		
Picloram	1918-02-1	500.	500.	0.139		0.278		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1610-18-0	-	100.	0.0475		0.0949		
Propazine	139-40-2	-	10.	0.0099		0.0177		
Pyrene (PAH)	129-00-0	-	250.	27.2362		54.4725	0.36	
Pyridine	110-86-1	-	10.	0.0034		0.0069		
Selenium	7782-49-2	50.	50.	0.26		0.52	0.49	
Silver	7440-22-4	-	50.	0.4249		0.8497	0.063	
Simazine	122-34-9	4.	4.	0.002		0.0039		
Styrene	100-42-5	100.	100.	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	0.0025		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	0.0267		0.0533		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50.	0.0111		0.0222		
Thallium	7440-28-0	2.	2.	0.142		0.284		
Toluene	108-88-3	1,000.	800.	0.5536		1.1072		
Toxaphene	8001-35-2	3.	3.	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200.	200.	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5.	5.	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5.	5.	0.0018		0.0036		
1,1,1,2,2-Pentachloropropane	93-72-1	50.	50.	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	90.	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Trinitrobenzene (2,4,6-trinitro)	95-03-6 / 108-67-3	-	490.	0.6897		1.3793		
Vanadium	7440-62-2	-	490.	0.6897		1.3793		
Vinyl chloride	75-01-4	2	0.2	6.90E-05		0.0001		
Xylenes (m-, p-, o-isomers)	1330-20-7	10,000.	2,000.	1.97		3.94		

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!	02-32-000195
Acetochlor	34256-82-1	-	7.	0.0058		0.0112			
Acetone	67-64-1	-	9,030.	1.847		3.6939			
Alachlor	15972-60-8	2.	2.	0.0017		0.0033			
Aldicarb	116-06-3	3.	10.	0.0025		0.005			
Aluminum	7429-90-5	-	230.	300.6452		601.2903			
Antimony	7440-36-0	6.	6.	0.271		0.542			
Anthracene	120-12-7	-	3,000.	98.3721		196.7442	0.12		
Arsenic	7440-38-2	10.	10.	0.292		0.584	64.	E	
Athene, total chlorinated residues	1912-24-9	3.	3.	0.002		0.0039			
Barium	7440-39-3	2,000.	2,000.	82.4		164.8	300.	E	
Bentazon	25057-89-0	-	300.	0.0859		0.1319			
Benzene	71-43-2	5.	5.	0.0026		0.0051			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	0.235		0.47	0.099		
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	0.24		0.48	0.1		
Beryllium	7440-41-7	4.	4.	3.16		6.32			
Boron	7440-42-8	-	1,000.	3.1994		6.3987			
6-bromo-2-methoxybenzene (THM)	75-27-4	80	0.6	0.0002		0.0003			
Bromoform (THM)	75-25-2	80	4.4	0.0012		0.0023			
Bromomethane	74-83-9	-	10.	0.0025		0.0051			
Butylate	2008-41-5	-	400.	0.3882		0.7765			
Cadmium	7440-43-9	5.	5.	0.376		0.752	1.9	E	
Carbaryl	63-25-2	-	40.	0.0364		0.0727			
Carbuturan	1663-66-2	40.	40.	0.0156		0.0312			
Carbon disulfide	75-15-0	-	1,000.	0.2966		0.593			
Carbon tetrachloride	56-23-5	5.	5.	0.0019		0.0039			
Chloramben	133-90-4	-	150.	0.0363		0.0727			
Chlorodifluoromethane	75-45-6	-	7,000.	2.8942		5.7885			
Chloroethane	75-00-3	-	400.	0.1133		0.2266			
Chloroform (THM)	67-65-3	80	6.	0.0017		0.0033			
Chlorpyrifos	2921-88-2	-	2.	0.0295		0.059			
Chloromethane	74-87-3	-	30.	0.0078		0.0155			
Chromium (total)	7440-47-3	100.	100.	190,000. No Cr-VI		380,000. If no Cr-VI	33.		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	0.0725		0.1451	0.2	E	
Cobalt	7440-48-4	-	40.	1.812		3.6239			
Copper	7440-50-8	1,300.	1,300.	45.8		91.6			
Cyanazine	21725-46-2	-	1.	0.0005		0.0009			
Cyanide, free	57-12-5	200.	200.	2.02		4.04			
Dacthal (DCPA)	1881-32-1	-	70.	0.0855		0.1712			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	60.	0.016		0.032			
1,2-Dichloro-3-chloropropane (DCCP)	96-12-8	0.2	0.2	9.64E-05		0.0002			
Dibutyl phthalate	84-74-2	-	1,000.	2.5187		5.0375			
Dicamba	1918-00-9	-	300.	0.0778		0.1551			
1,2-Dichlorobenzene	95-50-1	600.	600.	0.584		1.168			
1,3-Dichlorobenzene	541-73-1	-	600.	0.5761		1.1522			
1,4-Dichlorobenzene	106-46-7	75.	75.	0.072		0.144			
Dichlorodifluoromethane	75-71-8	-	1,000.	1.5412		3.0825			
1,1-Dichloroethane	75-34-3	-	850.	0.2413		0.4836			
1,2-Dichloroethane	107-06-2	5.	5.	0.0014		0.0028			
1,1-Dichloroethylene	75-35-4	7.	7.	0.0025		0.005			
1,2-Dichloroethylene (cis)	156-59-2	70.	70.	0.0203		0.0412			
1,2-Dichloroethylene (trans)	156-60-5	100.	100.	0.0294		0.0588			
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70.	70.	0.0181		0.0362			
1,2-Dichloropropane	78-87-5	5.	5.	0.0017		0.0033			
1,3-Dichloropropane (trans) (Dienol)	542-78-6	-	0.4	0.0001		0.0003			
Di (2-ethylhexyl) phthalate	117-81-7	6.	6.	1.44		2.88			
Dimethoate	60-51-5	-	2.	0.0005		0.0009			
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		0.0001			
2,6-Dinitrotoluene	506-20-2	-	0.05	6.88E-05		0.0001			
Dinitrobenzene, Total Residues	25321-14-6	-	0.05	6.89E-05		0.0001			
Dinoseb	88-85-7	7.	7.	0.0515		0.123			
1,4-Dioxane (p-dioxane)	123-91-1	-	3.	0.0006		0.0012			
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.00E-05	3.00E-05	1.50E-05		3.00E-05			
Enclon	72-20-8	2.	2.	0.0908		0.1816			
EPTC	759-94-4	-	250.	0.132		0.264			

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF - ->	2.00	INPUT NUMERIC SOIL Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Ethylbenzene	100-41-4	700.	700.	0.785		1.57		
Ethyl Ether (Diethyl Ether)	60-29-7	-	1,000.	0.2235		0.4471		
Ethylene glycol	107-21-1	-	14,000.	2.6224		5.6447		
Fluoranthene	206-44-0	-	400.	44.4089		88.8179	0.22	
Fluorene (PAH)	86-73-7	-	400.	7.4074		14.8148		
Fluoride	7782-41-4	4,000.	4,000.	601.		1,202.		
Fluorotrichloromethane	75-69-4	-	3,400.	2.2343		4.4685		
Formaldehyde	50-00-0	-	1,000.	0.2019		0.4039		
Heptachlor	76-44-8	0.4	0.4	0.0331		0.0662		
Heptachlor epoxide	1024-57-3	0.2	0.2	0.0041		0.0082		
Hexachlorobenzene	118-74-1	1.	1.	0.0126		0.0252		
n-Hexane	110-54-3	-	600.	4.2213		8.4427		
Lead	7439-92-1	15.	15.	13.5		27.	890.	E
Lindane	58-89-9	0.2	0.2	0.0012		0.0023		
Manganese	7439-96-5	-	300.	19.5652		39.1304		
Mercury	7439-97-6	2.	2.	0.104		0.208	0.29	E
Methanol	67-56-1	-	5,000.	1.0128		2.0256		
Methoxychlor	72-43-5	40.	40.	2.16		4.32		
Methylene chloride	75-09-2	5.	5.	0.0013		0.0026		
Methyl ethyl ketone (MEK)	78-93-3	-	4,000.	0.8391		1.6782		
Methylisobutyl ketone (MIBK)	108-10-1	-	500.	0.1129		0.2257		
Methyl tertiary butyl ether (MTBE)	1634-04-4	-	60.	0.0135		0.027		
Metolachlor/Chlorfenchlor	51218-45-2	-	100.	0.1172		0.2344		
Melribuzin	21087-64-9	-	70.	0.0214		0.0428		
Molybdenum	7439-98-7	-	40.	0.8082		1.6165		
Monochlorobenzene	108-90-7	100.	100.	0.0679		0.1358		
Naphthalene	91-20-3	-	100.	0.3294		0.6587	0.066	
Nickel	7440-02-0	-	100.	6.5017		13.0033		
N,N-Dimethylbenzylamine (DMBA)	86-30-5	-	7.	0.0382		0.0764		
Pentachlorophenol (PCPP)	87-86-5	1.	1.	0.0101		0.0202		
Phenol	108-95-2	-	2,000.	1.1499		2.2998		
Picloram	1918-02-1	500.	500.	0.139		0.278		
Polybrominated biphenyls (PBBs)	1336-36-3	0.5	0.03	0.0047		0.0094		
Prometon	1510-18-0	-	100.	0.0475		0.0949		
Propazine	139-40-2	-	10.	0.0089		0.0177		
Pyrene (PAH)	129-00-0	-	250.	27.2352		54.4725	0.26	
Pyridine	110-86-1	-	10.	0.0034		0.0069		
Selenium	7782-49-2	50.	50.	0.26		0.52	0.39	
Silver	7440-22-4	-	50.	0.4249		0.8497	0.2	
Simazine	122-34-9	4.	4.	0.002		0.0039		
Styrene	100-42-5	100.	100.	0.11		0.22		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12.	0.0026		0.0049		
1,1,1,2-Tetrachloroethane	630-20-6	-	70.	0.0267		0.0533		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		0.0002		
Tetrachloroethylene (PCE)	127-18-4	5.	5.	0.0023		0.0045		
Tetrahydrofuran	109-99-9	-	50.	0.0111		0.0222		
Thallium	7440-28-0	2.	2.	0.142		0.284		
Toluene	108-88-3	1,000.	800.	0.5536		1.1072		
Toxaphene	8001-35-2	3.	3.	0.464		0.928		
1,2,4-Trichlorobenzene	120-82-1	70.	70.	0.204		0.408		
1,1,1-Trichloroethane	71-55-6	200.	200.	0.0701		0.1402		
1,1,2-Trichloroethane	79-00-5	5.	5.	0.0016		0.0032		
Trichloroethylene (TCE)	79-01-6	5.	5.	0.0018		0.0036		
1,1,1-Trichloroethane and 1,1,2-Trichloroethane	93-72-1	50.	50.	0.0275		0.055		
1,2,3-Trichloropropane	96-18-4	-	60.	0.026		0.052		
Trifluralin	1582-09-8	-	7.5	0.2477		0.4954		
Trifluoromethylamine (TFMA)	95-63-6 / 108-67-8	-	450.	0.6897		1.3793		
Vanadium	7440-62-2	-	-	-		-		
Vinyl chloride	75-01-4	2.	0.2	6.90E-05		0.0001		
Xylenes (m-, o-, p- combined)	1330-20-7	10,000.	2,000.	1.97		3.94		

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