Figure U-11

Ornate Shrew Risk Summary

Based on Maximum Detected Concentrations

	Ornate Shrew																																			
Study Area	**SW**	**SW**	**SWP**	**SWP**	**ADB**	**ADB**	**BTA**	**BTA**	**CDA**	**CDA**	**FPP**	**FPP**	**LQT**	**LQT**	**MSA**	**MSA**	**ROS**	**ROS**	**RCRA**	**RCRA**	**RWA**	**RWA**	**WCS**	**WCS**	**ASP**	**ASP**	**P13**	**P13**	**P18**	**P18**	**PA5**	**PA5**	**RCF**	**RCF**	**BKG**	**BKG**
CPEC	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**	**Low HQ**	**High HQ**
Inorganics																																				
Barium	6	14	6	14	<1	<1	<1	<1	<1	1	2	5	<1	<1	<1	2	<1	<1	6	14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	5	<1	1	<1	<1
Beryllium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	5	52	5	52	<1	3	<1	6	<1	8	1	15	5	52	2	21	<1	8	4	39	2	24	3	34	3	35	1	11	2	16	4	42	<1	9	<1	8
Chromium	9	34	9	34	<1	1	1	6	<1	4	2	8	<1	3	4	15	<1	3	6	24	6	24	9	34	<1	1	<1	2	<1	3	<1	4	<1	2	<1	2
Cobalt	<1	2	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	9	16	9	16	<1	<1	<1	1	1	2	1	2	2	3	3	6	<1	2	6	10	7	11	9	16	<1	1	<1	<1	1	2	1	2	<1	<1	<1	<1
Total Cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Lead	11	20	11	20	<1	<1	<1	<1	<1	<1	2	3	<1	1	11	20	<1	1	2	4	<1	2	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	1	4	1	4	<1	<1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1	<1	1	4	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Molybdenum	<1	4	<1	5	<1	1	<1	2	<1	2	<1	4	<1	2	<1	1	<1	4	<1	3	<1	2	<1	2	<1	7	<1	<1	<1	4	<1	5	<1	2	<1	3
Nickel	3	5	3	5	<1	<1	<1	2	<1	2	1	3	<1	1	<1	2	<1	1	2	4	2	4	3	5	2	4	<1	2	1	3	2	4	<1	1	<1	1
Selenium	2	38	2	49	<1	8	2	38	<1	10	<1	11	<1	10	<1	<1	<1	10	<1	23	<1	10	<1	9	1	34	<1	24	2	49	1	27	<1	13	<1	15
Thallium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tin	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	<1	24	<1	24	<1	9	<1	12	<1	14	<1	14	<1	17	<1	18	<1	11	<1	24	<1	19	<1	20	<1	12	<1	10	<1	11	<1	12	<1	11	<1	12
PCDD/PCDFs (Dioxins)																																				
Total Mammalian Dioxin TEQ	10	96	10	96	<1	<1	<1	7	10	96	<1	<1	<1	<1	3	26	<1	<1	<1	7	<1	<1	<1	7	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	2	17
Total Mammalian TEQ	13	128	13	128	<1	<1	<1	7	10	98	1	13	<1	1	3	27	<1	<1	<1	7	<1	3	<1	7	<1	<1	<1	<1	<1	1	<1	<1	<1	<1		
Herbicides																																				
2,4-Dichlorophenoxybutyric acid (2,4-DB)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Dalapon	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
MCPA	<1	5	<1	5	<1	<1	<1	<1	<1	<1	<1	2	<1	5	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
MCPP	6	17	6	17	<1	<1	<1	<1	<1	1	<1	<1	6	17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Polycyclic Aromatic Hydrocarbons (PAHs)																																				
Total LMW PAH	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total HMW PAH	<1	2	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
PCBs																																				
Aroclor 1260	6	20	6	20	<1	<1	<1	<1	4	16	2	8	<1	<1	<1	1	9	30	<1	<1	2	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Sum of PCB Congeners	2	9	2	9	<1	<1	<1	<1	<1	<1	3	11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total Mammalian PCB TEQ	3	32	3	32	<1	<1	<1	<1	<1	2	1	12	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Pesticides																																				
4,4'-DDE	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
4,4'-DDT	9	44	9	44	<1	<1	<1	<1	<1	<1	1	5	9	44	<1	2	<1	4	<1	<1	1	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total DDT	9	45	9	45	<1	<1	<1	<1	<1	<1	1	5	9	44	<1	2	1	5	<1	<1	1	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Hexachlorobenzene	11	108	11	108	<1	<1	<1	<1	<1	3	<1	<1	11	108	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Methoxychlor	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Semi-Volatile Organic Compounds (SVOCs)																																				
Bis(2-ethylhexyl)phthalate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Diethylphthalate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Volatile Organic Compounds (VOCs)																																				
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
1,1-Dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Acetone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Acetonitrile	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Acrolein	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane)																																				
Isopropanol	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Methyl ethyl ketone	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Methylene chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Propanal																																				
Tert-Butyl alcohol (TBA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Tetrachloroethylene	3	15	3	15	<1	<1	<1	<1	<1	<1	3	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Tetrahydrofuran	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Trichloroethylene	<1	2	<1	2	<1	<1	<1	1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		

Notes:

- Not evaluated
- Low or High HQ < 1
- High HQ ≥ 1
- Low HQ ≥ 1
- Low HQ > 10

CPEC = Constituent of Potential Ecological Concern
HQ = Hazard Quotient
LMW PAH = Low Molecular Weight Polycyclic Aromatic Hydrocarbons
HMW PAH = High Molecular Weight Polycyclic Aromatic Hydrocarbons
NOAEL = No Observed Adverse Effect Level
LOAEL = Lowest Observed Effect Level
TRV = Toxicity Reference Value
Low HQ is based on LOAEL TRV; High HQ is based on NOAEL TRV.

Study Areas:

SW = Sitewide
SWP = Sitewide Including Ponds (Ponds 18 and A-5)
ADB = Administration Building Area
BTA = Burial Trench Area
CDA = Central Drainage Area
FPP = Former Ponds and Pads
LQT = Liquid Treatment Area
MSA = Maintenance Shed Area
ROS = Remaining On-site Areas
RCRA = RCRA Canyon
RWA = Roadway Areas
WCS = West Canyon Spray Area
ASP = A-Series Pond
P13 = Pond 13
P18 = Pond 18
PA5 = Pond A-5
RCF = RCF Pond
STW = Stormwater Ponds (Pond 13, A-Series Pond, and RCF Pond)
NDR = North Drainage
ADR = A Drainage
BDR = B Drainage
UCD = Upper C Drainage
LCD = Lower C Drainage
BKG = Background