

Appendix B

Vega Baja Solid Waste Disposal Site Groundwater Health Consultation

Table 1. Contaminants with high quantitation limit in the groundwater samples.

Chemical Volatile Organic Compounds	*Comparison Value in parts per billion (ppb)	†Concentration of the chemical (ppb)
Vinyl Chloride	0.2 child (chronic EMEG) 0.7 adult (chronic EMEG) 0.03 (CREG) 2.0 -DW (PRWQSR)	0.5 UJ
1,2 - Dichloroethane	0.4 (CREG) 5.0 DW (PRWQSR)	0.5 UJ
1,2 - Dibromoethane	0.0004 (CREG)	0.5 UJ

***Comparison Value:**

CREG-Cancer Risk Evaluation Guide for 1×10^{-6} excess cancer risk

EMEG-Environmental Media Evaluation Guide (ATSDR)

PRWQSR- Puerto Rico Water Quality Standard Regulations for Drinking Water

†Concentration of the chemical:

U-Non-detect

J-Estimated

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Table 1. Contaminants with high quantitation limit in the groundwater samples.
(Continued)

Chemical Semi Volatile Organic Compounds	*Comparison Value in parts per billion (ppb)	†Concentration of the chemical (ppb)
Bis (2 - chloroethyl) ether	0.03 (CREG)	10 U
Hexachloroethane	3 (CREG)	10 U
Nitrobenzene	5 child (RMEG)	10 U
Hexachlorobutadiene	2 child (EMEG) 7 adult (EMEG) 0.4 (CREG)	10 U
2,4,6 - Trichlorophenol	3 (CREG)	10 U
N-nitrosodiphenylamine	7 (CREG)	10 U
Hexachlorobenzene	0.5 child (EMEG) 2 adult (EMEG) 0.02 (CREG) 1.0 (MCL)	10 U
Pentachlorophenol	0.3 (CREG)	25 U
3,3 - dichlorobenzidine	0.08 (CREG)	10 U
Benzo (a) pyrene	0.005 (CREG) 0.2 (MCL)	10 U

***Comparison Value:**

CREG-Cancer Risk Evaluation Guide for 1×10^{-6} excess cancer risk

EMEG-Environmental Media Evaluation Guide (ATSDR)

RMEG-Reference Media Evaluation Guide

MCL-Maximum Contaminant Level for Drinking Water

†Concentration of the chemical:

U-Non-detect

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Table 1. Contaminants with high quantitation limit in the groundwater samples.
(Continued)

Chemical Pesticides/PCBs	*Comparison Value in parts per billion (ppb)	†Concentration of the chemical (ppb)
Heptachlor	0.008 (CREG) 40 DW (PRWQSR)	0.05 U
Aldrin	0.002 (CREG)	0.05 U
Heptachlor epoxide	0.004 (CREG) 0.2 (MCL)	0.05 U
Dieldrin	0.002 (CREG)	1.0 U
Toxaphene	0.03 (CREG) 3.0 DW (PRWQSR)	5 U
Aroclor 1016	0.7 child (RMEG)	1 U
Aroclor 1254	0.2 child (EMEG) 0.7 adult (EMEG)	1 U

***Comparison Value:**

CREG-Cancer Risk Evaluation Guide for 1×10^{-6} excess cancer risk

EMEG-Environmental Media Evaluation Guide (ATSDR)

RMEG-Reference Media Evaluation Guide

PRWQSR- Puerto Rico Water Quality Standard Regulation for Drinking Water

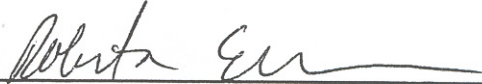
MCL-Maximum Contaminant Level for Drinking Water

†Concentration of the chemical:

U-Non-detect

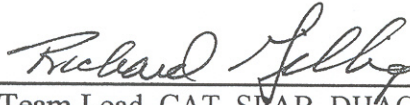
Certification

This Vega Baja-Groundwater Health Consultation was prepared by the Puerto Rico Department of Health under a cooperative agreement with the federal Agency for Toxic Substances and Disease Registry (ATSDR). It is in accordance with approved methodologies and procedures existing at the time the health consultation was initiated.



Technical Project Officer, CAT, SPAB, DHAC

The Division of Health Assessment and Consultation (DHAC), ATSDR, has reviewed this health consultation and concurs with its findings.



for _____
Team Lead, CAT, SPAB, DHAC, ATSDR