









IN, E M I M    C E M    A L A C, A N ( I A ) -    F A L L 0 0 9

A, E C H A C, E I A, A N A M L E E L,    B 1 - 1 D  
H E B E I N G C M A N

INTEGRITY MONITORING DATA ANALYSIS REPORT - FALL 009

ANALYSIS OF CHLORINATED BENZENE AND POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) IN GROUNDWATER AT THE B1-1D  
HEBERLING CLEANUP  
ANALYSIS AT ANA FIELD LAB

Parameter:	B1 C0007	B1 C0008	B1 C0009	B1 C0010	B1 C0011	B1 C0012	B1 C0013
Sample Name:	B1WC0007S001	B1WC0008S001	B1WC0009S001	B1WC0010S001	B1WC0011S001	B1WC0012S001	B1WC0013S001
Collection Date:	4/27/2010	4/27/2010	4/27/2010	4/27/2010	4/27/2010	4/27/2010	4/27/2010
Sample Depth (feet):	0.0 - 0.5	1.5 - 2.0	0.0 - 0.5	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0

ANALYTE	UNIT	CL	LA	CL	LA	B1 C0007	B1 C0008	B1 C0009	B1 C0010	B1 C0011	B1 C0012	B1 C0013
Butyl benzyl phthalate	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Caprolactam	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Carbazole	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Chrysene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Dibenzo(a,h)anthracene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Dibenzofuran	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Diethyl phthalate	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Dimethyl phthalate	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Di-n-butyl phthalate	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Di-n-octyl phthalate	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Diphenylamine	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Fluoranthene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Fluorene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Hexachlorobenzene	ug/kg	--	--	2,600	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Hexachlorobutadiene	ug/kg	--	--	10,000	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Hexachlorocyclopentadiene	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Hexachloroethane	ug/kg	--	--	60,000	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Isophorone	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Naphthalene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Nitrobenzene	ug/kg	--	--	40,000	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
n-Nitrosodimethylamine	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
n-Nitroso-di-n-propylamine	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
p-(Dimethylamino)azobenzene	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Pentachlorophenol	ug/kg	17,000	17,000	2,000,000	--	<333 {<83.3}	<332 {<82.9}	<333 {<83.1}	<333 {<83.3}	<333 {<83.3}	<333 {<83.2}	<331 {<82.8}
Phenanthrene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	<33.3 {<9.99}	<33.1 {<9.94}
Phenol	ug/kg	--	--	--	--	<333 {<66.6}	<332 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
Pyrene	ug/kg	--	--	--	--	<33.3 {<10}	<33.2 {<9.95}	<33.3 {<9.98}	<33.3 {<9.99}	<33.3 {<9.99}	12.7 J	<33.1 {<9.94}
Pyridine	ug/kg	--	--	--	--	<333 {<66.6}	<333 {<66.3}	<333 {<66.5}	<333 {<66.6}	<333 {<66.6}	<333 {<66.6}	<331 {<66.3}
ADI NOCLIDE	--	--	--	--	--	R	R	R	R	R	R	R

IN, E M I M    C E M    A L A C, A N ( I A ) -    F A L L 009

A, E C H A C, E I A, A N A M L E E L,    B1-1D  
H E B E I N G C M A N





ANALYTICAL DATA AND ANALYSIS B1-1D  
 BEING COMPLETED  
 ANALYSIS ANA FIELD LAB

ANALYTE	UNIT	MCL	EPA L a a0 S0.F	CLP L a a0 S0.F	MCL	CONC	CONC	CONC
						B1 C0014	B1 C0033	B1 C0034
Sample Name:						B1WC0014S001	B1WC0033S001	B1WC0034S001
Collection Date:						4/28/2010	6/17/2010	6/17/2010
Sample Depth (feet):						0.5 - 1.0	1.0 - 1.5	1.0 - 1.5
Butyl benzyl phthalate	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Caprolactam	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Carbazole	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Chrysene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Dibenzo(a,h)anthracene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Dibenzofuran	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Diethyl phthalate	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Dimethyl phthalate	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Di-n-butyl phthalate	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Di-n-octyl phthalate	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Diphenylamine	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Fluoranthene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Fluorene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Hexachlorobenzene	ug/kg	--	--	2,600	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Hexachlorobutadiene	ug/kg	--	--	10,000	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Hexachlorocyclopentadiene	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Hexachloroethane	ug/kg	--	--	60,000	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Isophorone	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Naphthalene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Nitrobenzene	ug/kg	--	--	40,000	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
n-Nitrosodimethylamine	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
n-Nitroso-di-n-propylamine	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
p-(Dimethylamino)azobenzene	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Pentachlorophenol	ug/kg	17,000	17,000	2,000,000	--	<167 {<41.7}	<332 {<82.9}	<332 {<82.9}
Phenanthrene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Phenol	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
Pyrene	ug/kg	--	--	--	--	<16.7 {<5}	<33.2 {<9.95}	<33.2 {<9.95}
Pyridine	ug/kg	--	--	--	--	<167 {<33.3}	<332 {<66.4}	<332 {<66.4}
ADI NOCLIDE	--	--	--	--	--	R	R	R

IN, E M I M    C E M    A L A C, A N ( I A ) -    F A L L 0 0 9

A , E C H A R A C, E M A, A N A M L E E L,    B 1 - 1 A N D B 1 - 2

H E B E I N G C M A N

A N, A    A N A F I E L D L A B    A, A    A

**N O S:**

"--" - not analyzed / not applicable

<5 - Analyte not detected at or above the stated method detection limit (metals) or analyte not detected at or above the stated reporting limit (organics)

{<1} - Analyte not detected at or above the stated method detection limit (organics)

<sup>a</sup> - WET Leachate Testing Trigger = STLC limit \* 10

<sup>b</sup> - TCLP Leachate Testing Trigger = TCLP limit \* 20

<sup>c</sup> Waste characterization sample results not validated

H - Analytical holding time was exceeded.

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to RL or En eth