

Freeman, Christine D CNIN
From: Ramanauskas.Peter@epamail.epa.gov
Sent: Monday, August 26, 2002 8:38 AM
To: Freeman Christine D CNIN
Cc: gateswh@efdsouth.navfac.navy.mil
Subject: Re: BIOFACILITY DECON RESULTS

Thanks Chris,

No further decon action is required at the Biofacility.

Thanks!
Pete

From: Freeman Christine D CNIN
To: Peter Ramanauskas/R5/USEPA/US@EPA
cc: "William H. Gates (E-mail)" <gateswh@efdsouth.navfac.navy.mil>
Subject: BIOFACILITY DECON RESULTS
08/20/02 02:37 PM

Pete,
Attached are the decon results for the Biofacility efforts. Only the ditch sampling is outstanding.

Please review and let us know if you agree that no further decon action is required within the facility. The CBOD issue will be worked through our NPDES personnel and IDEM representatives.

<<decon results.xls>>

Thanks,
Christine

(See attached file: decon results.xls)



decon results.xls

**BIOFACILITY DECONTAMINATION PROCESS CONFIRMATION SAMPLES
SUMMARY OF ANALYSIS**

Water Samples

Compost Building Sump Samples

All three samples exceed the surface discharge limit for CBOD
(but meet the sewage treatment plant limit)

HMX and RDX were detected as very low levels in the North building sample

All other criteria meet surface discharge limits in all three samples

Decontamination Sump Sample

Meets the surface discharge limits for all criteria

Retention Ponds

Both samples exceed the surface discharge limit for CBOD
(but meet the sewage treatment plant limit)

All other criteria meet surface discharge limits

Groundwater Samples

No explosives were detected in either sample

Wipe Samples (analyzed for HMX, RDX, and TNT only)

North Compost Building

HMX was detected in one sample from the North wall
and one sample from the South wall
All other samples were non-detect

Middle Compost Building

All samples were non-detect

South Compost Building

RDX was detected at a very low level in one floor sample
All other samples were non-detect

Shower Trailer and Lab Trailer

All samples were non-detect

Middle Building Sludge Sample

Non-detect for all 14 explosive compounds

Drainage Ditch Samples

Awaiting analytical results

**BIOFACILITY DECONTAMINATION PROCESS CONFIRMATION SAMPLES
WATER SAMPLE ANALYSIS (all results in mg/l)**

	Discharge Limits		Building Sump Samples				Retention Ponds		Groundwater	
	STP	Direct	North	Middle	South	Decon	Pond 1	Pond 2	Pond 1	Pond 2
HMX	2.0 total of all 3	BDL	0.000342 PJ	ND	ND	ND	ND	ND	ND	ND
RDX			0.00194 P	ND	ND	ND	ND	ND	ND	ND
TNT			ND	ND	ND	ND	ND	ND	ND	ND
Nitrate	90	No standard	0.24	0.24	0.4	ND	ND	ND		
CBOD	75	15	26.4	25.8	23.9	ND	25.4	28.2		
TSS	500	15	4	ND	ND	ND	ND	6		
Ammonia (May1-Nov30)	69.8	3	ND	ND	ND	ND	ND	1.1		
Ammonia (Dec.1-Apr30)	139.6	6	na	na	na	na	na	na		
Oil & Grease	15	No sheen	ND	ND	ND	nd	2.9	2.9		
Cadmium	0.0321	0.003	ND	ND	ND	ND	ND	ND		
Chromium	8.59	0.59	0.0017	ND	ND	0.00083	ND	0.0013		
Copper	0.201	0.02	0.0014	0.0071	ND	0.0095	ND	ND		
Lead	0.151	0.012	ND	ND	ND	ND	ND	0.0054		
Nickel	2.34	0.164	ND	ND	ND	ND	ND	ND		
Zinc	4.26	0.308	0.0252	0.0603	0.047	0.0364	ND	0.265		
Silver	0.134	0.01	ND	ND	ND	ND	ND	ND		
Mercury	0.0011	0.0001	ND	ND	ND	ND	ND	ND		
Cyanide	0.109	0.009	0.0027	0.0065	0.0037	ND	0.0022	0.004		

STP- sewage treatment plant

BDL - below detection limit

ND - non-detect

na - not applicable

J - Indicates an estimated value. The mass spectral data indicate the presence of the compound that meets the identification criteria. However, the result is less than the sample quantitation limit but greater than zero.

P - Indicates a difference in quantitation of greater than 25% between primary and secondary columns.

BIOFACILITY DECONTAMINATION PROCESS CONFIRMATION SAMPLES
WIPE SAMPLE ANALYSIS (all results ug/wipe)

North Building													
	Floor, South Side				Floor, North Side				North Wall		South Wall		Ceiling
	East	East Middle	West Middle	West	East	East Middle	West Middle	West	East	West	East	West	
HMX	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.58 P	ND	1.47 P	ND
RDX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TNT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Middle Building									
	Floor, South Side		Floor, North Side		South Wall		North Wall		Ceiling
	East	West	East	West	East	West	East	West	
HMX	ND	ND	ND	ND	ND	ND	ND	ND	ND
RDX	ND	ND	ND	ND	ND	ND	ND	ND	ND
TNT	ND	ND	ND	ND	ND	ND	ND	ND	ND

South Building											
	Floor, South Side		Floor, North Side		South Wall			North Wall			Ceiling
	East	West	East	West	East	Middle	West	East	Middle	West	
HMX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RDX	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND
TNT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Shower Trailer		Lab Trailer	
	Gross Decon	Shower Area	Floor	Counter Top
HMX	ND	ND	ND	ND
RDX	ND	ND	ND	ND
TNT	ND	ND	ND	ND

J - Indicates an estimated value. The mass spectral data indicate the presence of the compound that meets the identification criteria. However, the result is less than the sample quantitation limit but greater than zero.

P - Indicates a difference in quantitation of greater than 25% between primary and secondary columns.

ND - non-detect