EMLab P&K
1936 Olney Avenue, Cherry Hill, NJ 08003
(866) 871-1984 Fax (856) 489-4085 www.emlab.com

Client: NIOSH, Morgantown, WV
Date sampled: 4/30/2007
Project ID: Bennington Study
Samples submitted by: Ju-Hyeong Park
Date Report Completed: 10/2/07
P&K Project No.: 750-705-0233

Bulk samples

Sample ID	Result [cfu per mg]	Identification	Detectoin Limit [cfu per mg]
HP 1.1	ND	NA	19
HP 1.2	ND	NA	15
HP 1.3	ND	NA	32
HP 1.4	ND	NA	21
HP 1.5	ND	NA	26
HP 1.6	ND	NA	2
HP 1.7	ND	NA	200
HP 1.8	ND	NA	280
HP 1.9	ND	NA	19
HP 1.10	ND	NA	230
HP 1.11	ND	NA	29
HP 1.12	ND	NA	2
HP 1.13	ND	NA	260
HP 1.14	ND	NA	540
HP 1.15	300	*M. chelonae*	22
HP 1.17	ND	NA	36
HP 1.18	ND	NA	16
HP 1.19	ND	NA	14
HP 1.20	ND	NA	13
HP 1.21	ND	NA	280
HP 1.23	ND	NA	20
HP 1.24	ND	NA	2
HP 1.25	ND	NA	12
HP 1.26	ND	NA	18
HP 1.27	ND	NA	11

Sample ID	Result [cfu per mg]	Identification	Detectoin Limit [cfu per mg]
HP 1.28	ND	NA	33
HP 1.29A	ND	NA	180
HP 1.30	ND	NA	370
HP 2.1	ND	NA	360
HP 2.2	ND	NA	260
HP 2.3	ND	NA	3
HP 2.5	ND	NA	230
HP 2.6	ND	NA	290
HP 2.7	ND	NA	3
HP 2.8	ND	NA	9
HP 2.9	ND	NA	32
HP 2.10	ND	NA	24
HP 2.11	ND	NA	22
HP 2.12	ND	NA	2
HP 2.13	ND	NA	260
HP 2.14	ND	NA	2
HP 2.15	ND	NA	290
HP 2.16	ND	NA	25
HP 2.17	ND	NA	240
HP 2.18	ND	NA	240
HP 2.19	ND	NA	<1
HP 2.20	ND	NA	180
HP 2.21	ND	NA	240
HP 2.22	ND	NA	230
HP 3.1	ND	NA	280
HP 3.2	ND	NA	190
HP 3.3	ND	NA	240
HP 3.4	ND	NA	170
HP 3.5	ND	NA	13
HP 3.6	ND	NA	20
HP 3.9	ND	NA	19
HP 3.10	ND	NA	19
HP 3.11	ND	NA	270
HP 3.12	ND	NA	200
HP 3.13	ND	NA	20
HP 3.14	ND	NA	260
HP 3.15	ND	NA	250
HP 3.16	ND	NA	240
HP 3.17	ND	NA	20
HP 3.18	ND	NA	25

Sample ID	Result [cfu per mg]	Identification	Detectoin Limit [cfu per mg]
HP 3.20	ND	NA	27
HP 3.21	ND	NA	29
HP 3.22	ND	NA	30
HP 3.23	ND	NA	22
RU 4-3	ND	NA	280
RU 4-4	910	AFB[1)]	300
RU 4-5	1600	AFB[2)]	200
RU 6-3	ND	NA	180
RU 6-4	5300	AFB[2)]	330

[1)] Acid-fast bacilli resembling isolate from water sample RU4-4 (identified as MAC). Unable to isolate for testing due to competing bacteria.

[2)] Rapid-growing acid-fast bacilli resembling *Rhodococcus* .

Characterization completed by:_____

Douglas Toal, Ph.D., Laboratory Director

Quality control checked by:_____

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Water samples

Sample ID	Result [cfu per ml]	Identification	Detectoin Limit [cfu per ml]
HP 1.2	ND	NA	10
HP 1.3	ND	NA	1
HP 1.4	ND	NA	4
HP 1.5	ND	NA	13
HP 1.6	ND	NA	3
HP 1.7	ND	NA	175
HP 1.8	ND	NA	200
HP 1.9	ND	NA	2
HP 1.10	ND	NA	2
HP 1.11	ND	NA	20
HP 1.12	ND	NA	20
HP 1.13	ND	NA	20
HP 1.15	1000	*M. chelonae*	20
HP 1.15	400	AFB[1)]	200
HP 1.17	ND	NA	20
HP 1.18	ND	NA	200
HP 1.19	ND	NA	20
HP 1.20	ND	NA	20
HP 1.21	20	*M. chelonae*	20
HP 1.23	ND	NA	20
HP 1.24	ND	NA	20
HP 1.25	ND	NA	200
HP 1.26	ND	NA	200
HP 1.27	ND	NA	200
HP 1.28	ND	NA	200
HP 1.29A	ND	NA	200
HP 1.30	ND	NA	20
HP 2.2	ND	NA	200
HP 2.3	ND	NA	200
HP 2.5	ND	NA	2000
HP 2.6	60000	MAC[2)]	2000
HP 2.7	ND	NA	20
HP 2.10	ND	NA	20

Sample ID	Result [cfu per ml]	Identification	Detectoin Limit [cfu per ml]
HP 2.11	ND	NA	20
HP 2.12	ND	NA	20
HP 2.13	ND	NA	200
HP 2.14	ND	NA	20
HP 2.15	ND	NA	200
HP 2.17	ND	NA	200
HP 2.18	ND	NA	200
HP 2.19	ND	NA	20
HP 2.20	ND	NA	20
HP 2.21	ND	NA	200
HP 2.22	ND	NA	200
HP 3.1	ND	NA	200
HP 3.2	ND	NA	200
HP 3.3	ND	NA	2000
HP 3.4	ND	NA	20
HP 3.5	ND	NA	200
HP 3.6	ND	NA	20
HP 3.7	ND	NA	20
HP 3.10	ND	NA	20
HP 3.11	ND	NA	20
HP 3.12	ND	NA	20
HP 3.13	ND	NA	20
HP 3.14	ND	NA	20
HP 3.15	ND	NA	200
HP 3.17	ND	NA	20
HP 3.18	ND	NA	200
HP 3.20	ND	NA	2
HP 3.21	ND	NA	200
HP 3.22	ND	NA	200
HP 3.23	ND	NA	20
RU 4-3	ND	NA	4000
RU 4-4	400	MAC[2)]	40
RU 4-5	ND	NA	4000
RU 6-3	440	AFB[3)]	40

[1)] Slow growing, nonchromogenic acid-fast bacilli.

[2)] *M. avium* complex (MAC): The MAC contains at least two clearly defined species: *M. avium* and *M. intracellulare*. A significant proportion of the strains in this complex cannot be classified in either species.

[3)] Rapid growing yellow pigmented acid-fast bacilli.

Characterization completed by: Douglas Toal

Douglas Toal, Ph.D., Laboratory Director

Quality control checked by: Daniel M Devine