TA-21 '08 DP Aggregate

Roberts, Kathryn, NMENV

From: Mark S. Thacker [mthacker@lanl.gov]
Sent: Wednesday, January 23, 2008 9:45 AM
To: Roberts, Kathryn, NMENV
Cc: 'Allan Chaloupka'; 'Roy Bohn'; 'Day, Emily'; 'Kirby Olson'; bill criswell; duanep@lanl.gov
Subject: FW: [Released] FW: screening for stockpile 139
Importance: High
Attachments: 7209 table.xls

Katie, attached are the results of some stockpiled soil from 21-024(i), it was overburden soil. As you will see there is an ascendance for benzo(a)pyrene at 0.010 ppm above the residential SSL, which is very low for this compound. LANL requests permission from NMED to utilize this soil for backfill below 10 feet at SWMU 21-006-99. Utilization of this soil below 10 feet precludes a residential risk assessment and would pose no excess risk to the public or environment while providing a beneficial reuse.

Mark

From: Kirby Olson [mailto:kolson@portageenv.com]
Sent: Friday, January 18, 2008 3:29 PM
To: 'Mark S. Thacker'; 'Roy Bohn'; 'Duane A. Parsons'; dblain@portageenv.com; 'Ron DeSotel'
Subject: [Released] FW: screening for stockpile 139
Importance: High

Hi Mark,

The validation of the data from the sample for this stockpile has the same result for benzo(a)pyrene. We talked a little about this at the 1/16/08 DP Aggregate meeting, and having you discuss it with NMED is probably the best approach at this point. We would like to reuse this soil because the exceedance of the SSL is very small. I've attached the screening table to this email. Please let me now if you'd like any assistance with an explanation to send to NMED.

Kirby

From: Mark S. Thacker [mailto:mthacker@lanl.gov]
Sent: Wednesday, January 02, 2008 12:22 PM
To: 'Kirby Olson'; 'Ron DeSotel'; 'Roy Bohn'; 'Duane A. Parsons'; dblain@portageenv.com; 'Baker, Larry'
Subject: RE: screening for stockpile 139

Let me know what the validated data shows Kirby and I can approach NMED if we think it is worth while, we certainly are not much above the residential SSL.

Mark

From: Kirby Olson [mailto:kolson@portageenv.com]
Sent: Wednesday, January 02, 2008 11:16 AM
To: 'Ron DeSotel'; 'Roy Bohn'; 'Duane A. Parsons'; dblain@portageenv.com; 'Mark S. Thacker'; 'Baker, Larry'
Subject: screening for stockpile 139

Hi everyone,

30311

event ID	SWMU	Associated Stockpile number	SAMPLE ID	ANALYTE NAME	Std Result	STD REPORTING UNITS	Reporting Qualifier	LANL SSL/SAL	Exceeds LANL SSL/SAL ?	
252	21-024(i)	139	RE21-08-7209	4,4'-DDT	0.000946	mg/kg	J	no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	4-Isopropyltoluene	0.000257	mg/kg	J	no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Acenaphthene	0.287	mg/kg		3730	no	
252	21-024(i)	139	RE21-08-7209	Acetone	0.0033	mg/kg	J	28100	no	
252	21-024(i)	139	RE21-08-7209	ALPHA	15.6	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Aluminum	4850	mg/kg		77800	no	
252	21-024(i)	139	RE21-08-7209	Anthracene	0.514	mg/kg		22000	no	
252	21-024(i)	139	RE21-08-7209	Aroclor-1254	0.00547	mg/kg		1.12	no	
252	21-024(i)	139	RE21-08-7209	Aroclor-1260	0.003	mg/kg	J	1.12	no	
252	21-024(i)	139	RE21-08-7209	Arsenic	3.76	mg/kg		3.9	no	
252	21-024(i)	139	RE21-08-7209	Barium	77.9	mg/kg		15600	no	
252	21-024(i)	139	RE21-08-7209	Benzo(a)anthracene	0.637	mg/kg		6.21	no	
252	**21-024(i)**	**139**	**RE21-08-7209**	**Benzo(a)pyrene**	**0.631**	**mg/kg**		**0.621**	**yes**	**concentration slightly exceeds SSL**
252	21-024(i)	139	RE21-08-7209	Benzo(b)fluoranthene	0.641	mg/kg		6.21	no	
252	21-024(i)	139	RE21-08-7209	Benzo(ghi)perylene	0.459	mg/kg		no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Beryllium	0.793	mg/kg		156	no	
252	21-024(i)	139	RE21-08-7209	BETA	34.6	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Bismuth-214	1.33	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Calcium	2550	mg/kg		no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Chromium	5.57	mg/kg		2100	no	
252	21-024(i)	139	RE21-08-7209	Chrysene	0.617	mg/kg		615	no	
252	21-024(i)	139	RE21-08-7209	Cobalt	2.59	mg/kg	*	1520	no	
252	21-024(i)	139	RE21-08-7209	Copper	4.19	mg/kg		3130	no	
252	21-024(i)	139	RE21-08-7209	Dibenzofuran	0.122	mg/kg	J	142	no	
252	21-024(i)	139	RE21-08-7209	Fluoranthene	1.92	mg/kg		2290	no	
252	21-024(i)	139	RE21-08-7209	Fluorene	0.249	mg/kg		2660	no	
252	21-024(i)	139	RE21-08-7209	gamma-Chlordane	0.000792	mg/kg		no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Indeno(1,2,3-cd)pyrene	0.413	mg/kg		6.21	no	
252	21-024(i)	139	RE21-08-7209	Iron	8580	mg/kg		23500	no	
252	21-024(i)	139	RE21-08-7209	Lead	14.5	mg/kg		400	no	
252	21-024(i)	139	RE21-08-7209	Lead-212	1.64	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Lead-214	1.61	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Magnesium	1170	mg/kg	N	no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Manganese	279	mg/kg		3590	no	
252	21-024(i)	139	RE21-08-7209	Mercury	5.67	mg/kg		23	no	
252	21-024(i)	139	RE21-08-7209	Methylnaphthalene[2-]	0.0644	mg/kg		79.5	no	
252	21-024(i)	139	RE21-08-7209	Naphthalene	0.0783	mg/kg		79.5	no	
252	21-024(i)	139	RE21-08-7209	Nickel	7.21	mg/kg		1560	no	
252	21-024(i)	139	RE21-08-7209	Nitrate	0.996	mg/kg	HJ	100000	no	SSL based on max allowable concentration
252	21-024(i)	139	RE21-08-7209	Perchlorate	0.00123	mg/kg	J	55	no	
252	21-024(i)	139	RE21-08-7209	Phenanthrene	1.54	mg/kg		1830	no	
252	21-024(i)	139	RE21-08-7209	Potassium	855	mg/kg	N	no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Potassium-40	28.7	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Pyrene	1.42	mg/kg		2290	no	
252	21-024(i)	139	RE21-08-7209	Radium-226	1.33	pCi/g		5	no	
252	21-024(i)	139	RE21-08-7209	Radium-228	2.13	pCi/g		5	no	
252	21-024(i)	139	RE21-08-7209	Selenium	6.5	mg/kg		391	no	
252	21-024(i)	139	RE21-08-7209	Silver	0.121	mg/kg	J	391	no	
252	21-024(i)	139	RE21-08-7209	Sodium	425	mg/kg		no SSL	n/a	
252	21-024(i)	139	RE21-08-7209	Thallium	0.182	mg/kg	J	5.16	no	
252	21-024(i)	139	RE21-08-7209	Thallium-208	0.579	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Thorium-234	2.37	pCi/g		no SAL	n/a	
252	21-024(i)	139	RE21-08-7209	Toluene	0.000302	mg/kg	J	252	no	SSL based on soil saturation
252	21-024(i)	139	RE21-08-7209	Tritium	2.909650924	pCi/g		750	no	
252	21-024(i)	139	RE21-08-7209	uranium-234	0.966	pCi/g		170	no	
252	21-024(i)	139	RE21-08-7209	Uranium-235	0.399	pCi/g		17	no	
252	21-024(i)	139	RE21-08-7209	uranium-235	0.0734	pCi/g		17	no	
252	21-024(i)	139	RE21-08-7209	Uranium-238	0.907	pCi/g		86	no	
252	21-024(i)	139	RE21-08-7209	Vanadium	12.6	mg/kg		78.2	no	
252	21-024(i)	139	RE21-08-7209	Zinc	36.1	mg/kg		23500	no	