

103907

(7)

Steven Paris

From: Shen, Hai, NMENV [Hai.Shen@state.nm.us]
Sent: Thursday, May 15, 2008 9:51 AM
To: Steven Paris
Cc: David J McInroy; Worth, Edwin; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Steve,

The revised table looks very good and it provides useful information. Thank you for your time!

NMED already officially approved the annual pore gas monitoring work plan at MDA G. LANL should follow that approved work plan to conduct the annual monitoring. If any deviations are necessary due to technical difficulties or other reasons, the annual monitoring report should document that. All of the boreholes and depths identified in the previously approved work plan are important to define the nature and extent of vapor contamination at MDA G. If it is feasible, NMED expects that the deepest sampling port (280 ft) in borehole 54-22116 can be included for monitoring.

Thank you again for your information.

Hai

*Hai Shen, Engineer Specialist
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505*

*Phone: (505) 476-6039
Fax: (505) 476-6030*

Main HWB Phone: (505) 476-6000

From: Steven Paris [mailto:smparis@lanl.gov]
Sent: Wed 5/14/2008 5:24 PM
To: Shen, Hai, NMENV
Cc: 'David J McInroy'; 'Worth, Edwin'; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Hai,

Please find revised Table D-1 attached that incorporates relevant nearest pit/shaft/trench information used to determine port depths for VOC and tritium sampling.

The table has unique sample locations and nearest pit/shaft/trench information.

Request approval to perform annual pore gas monitoring at MDA G according to this revised table.

Please contact me with any questions.

31254



Steve

Steve Paris

Corrective Actions Projects

Los Alamos National Laboratory

P.O. Box 1663, Mail Stop: M992

Los Alamos, NM 87544

505-606-0915 (o) 505-670-9116 (c)

smparis@lanl.gov

From: Shen, Hai, NMENV [mailto:Hai.Shen@state.nm.us]
Sent: Wednesday, May 14, 2008 10:36 AM
To: Steven Paris
Cc: David J McInroy; Worth, Edwin; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Steve, In your second table, your Well ID is not unique. A sampling port depth is definitely needed to define not only the Well ID, but also sampling depth in this well. If you still have questions, please give me a call at 672-0459. Thanks, Hai

From: Steven Paris [mailto:smparis@lanl.gov]
Sent: Wed 5/14/2008 10:20 AM
To: Shen, Hai, NMENV
Cc: 'David J McInroy'; 'Worth, Edwin'; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Hai,

There should be two tables in the attachment. Table D-1, MDA G Pore-Gas Monitoring Locations, presents locations and pore depths.

Is Table D-1 included as the first table in the attachment you received?

Steve

Steve Paris

Corrective Actions Projects

Los Alamos National Laboratory

P.O. Box 1663, Mail Stop: M992

Los Alamos, NM 87544

505-606-0915 (o) 505-670-9116 (c)

smparis@lanl.gov

From: Shen, Hai, NMENV [mailto:Hai.Shen@state.nm.us]
Sent: Wednesday, May 14, 2008 10:04 AM
To: Steven Paris
Cc: David J McInroy; Worth, Edwin; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Steve, The revised table only lists the Depth of Pit, Trench, Shaft (ft) targeted by Well ID, no depth of sampling ports associated with the individual Well ID. I attached the document you sent. Thanks, Hai

From: Steven Paris [mailto:smparis@lanl.gov]
Sent: Wed 5/14/2008 9:53 AM
To: Shen, Hai, NMENV
Cc: 'David J McInroy'; 'Worth, Edwin'; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Hai,

The port depths for each location are provided in the right column of the table. All port depths presented will be field screened and bolded port depths will be sampled for VOCs and tritium.

Let me know if this is not the case with the table I sent you.

Steve

Steve Paris

Corrective Actions Projects

Los Alamos National Laboratory

P.O. Box 1663, Mail Stop: M992

Los Alamos, NM 87544

505-606-0915 (o) 505-670-9116 (c)

smparis@lanl.gov

From: Shen, Hai, NMENV [mailto:Hai.Shen@state.nm.us]
Sent: Wednesday, May 14, 2008 9:15 AM
To: Steven Paris
Cc: David J McInroy; Worth, Edwin; Cobrain, Dave, NMENV
Subject: RE: MDA G 3rd Quarter Sampling Event

Steve,

The new table looks better. However, the depth of each sampling port was not specified in the revised table. To keep the sampling depth consistently for all sampling events, a column needs to be added in the revised table to define the sampling port depth. Please send us back a revised table for our processing.
Thanks,

Hai

From: Steven Paris [mailto:smparis@lanl.gov]
Sent: Tue 5/13/2008 1:31 PM
To: Shen, Hai, NMENV
Cc: 'David J McInroy'; 'Worth, Edwin'
Subject: FW: MDA G 3rd Quarter Sampling Event

Hai,

Because of the confusing nature of blending plans, verbal location descriptions and conflicting tables within plans, I would like to provide you a summary table definitively identifying all sample locations for your review. This is being done to ensure that we are in agreement and NMED gets what they are expecting.

Attached is a revised Table D-1, MDA G Pore-Gas Monitoring Locations, from the MDA G Corrective Measures Evaluation (CME) Plan Revision 2, Appendix D, that presents port depths that are proposed pore-gas sampling for submittal to an analytical laboratory for analysis of VOCs and tritium. The table currently provided in the Appendix D of the CME Plan for MDA G does not identify ports to be sampled for VOCs and tritium. Also included in the attachment is a table identifying the pore-gas monitoring locations, adjacent pit/trench/shaft, distance from the monitoring location to the adjacent pit/trench/shaft, and depth of each adjacent pit/trench/shaft. This table was used to identify the port nearest the lowest base elevation of the adjacent disposal unit (see CME Plan Appendix D requirement below).

Vapor samples will be collected annually using SUMMA canisters for VOCs and silica gel columns for tritium from the port nearest the lowest base elevation of the adjacent disposal unit, and at the total depth of the locations listed in Table D-1 with two exceptions: location 54-25105 will be sampled across the open portion using a single packer, and location 54-22116 will be sampled from the two ports containing the highest level of TCA, as measured by the B&K analyzer. Annual subsurface vapor monitoring will include collection of a minimum of 20 vapor samples from subsurface monitoring locations at MDA G.

We intend to implement the annual pore-gas sampling according to attached

table following your approval. Please note this table replaces the table provided in the April 30, 2008, 15-day sampling notification letter.

The attached table identifies new port construction at 54-01116 which was recently constructed in support of the ongoing SVE Pilot Project. In addition, it identifies the sampling interval for the open borehole at 54-25105. The revised table excludes location G-5, previously included in Appendix D of the MDA G CME Plan, Rev. 2, which has a blank FLUTe membrane (no ports) and is not available for sampling in its current configuration.

Please provide your concurrence or comments to me in the near future.

Thanks,

Steve Paris

Steve Paris

Corrective Actions Projects

Los Alamos National Laboratory

P.O. Box 1663, Mail Stop: M992

Los Alamos, NM 87544

505-606-0915 (o) 505-670-9116 (c)

smparis@lanl.gov

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**Table D-1
MDA G Pore-Gas Monitoring Locations**

Well ID	Nearest Pit/Trench/Shaft	Distance Nearest Pit/Trench/Shaft from Well ID (ft)	Nearest Pit/Trench/Shaft Excavation Depth (ft)	Depths of Ports(ft)
54-01107	Shaft 139	11	60	20, 44.5, 56.5 , 74, 91, 100
54-01110	Shaft 153	19	60	20, 48, 60 , 70, 85, 90
54-01111	Trench A	13	8	20 , 39.5, 50, 70, 78, 100, 139
54-01115	Pit 20	3	36	7, 26, 40 , 53, 63, 68
54-01116	Shaft 65	9	25	22.5 , 42.5, 67.5, 82.5, 97.5, 132.5, 151.5, 165, 187.8
54-01117	Shaft 26	6	25	20 , 31.5, 55, 73, 82, 85
54-01121	Pit 1	8	20	20 , 26, 61.5, 70, 76, 98, 121
54-01126	Pit 3	50	33	7, 17, 28, 35 , 42, 49
54-01128	Pit 1	50	20	7.5, 15, 20 , 30, 39
54-02009	Pit 3	30	33	37 , 62, 79, 92
54-02010	Pit 26	10	36	30 , 53, 95
54-02032	Pit 2	60	26	20 , 60, 100, 130, 156
54-02033	Pit 38	75	60	20, 60 , 100, 200, 220, 260, 277
54-22116 ¹	Pit 3	167	33	28, 46, 64, 82, 100, 118, 136, 154, 172 , 190 , 208, 226, 244, 262, 280
54-24370	Pit 29	7	50	40 , 72, 120, 174, 200, 243
54-24386	Pit 4	13	34	40 , 83, 117, 135, 195
54-24394	Pit 33	5	40	50 , 100, 150, 192, 245, 300
54-24397	Trench C	10	10	50 , 90, 130, 165, 188, 239
54-25105	Pit 13	9	28	485-701 (open borehole)
54-27436	Pit 6	17	26	45 , 70, 115, 163, 185

Note: VOC and tritium sampling is to be performed on borehole port depths in bold.

¹ VOC and tritium samples to be collected from the two ports with highest 1,1,1-trichloroethane field-screening results at the time of monitoring. Historically, this has occurred at 172 ft and 190 ft beneath Pit 3.