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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO



MAR 13 2008

MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT

Attn: Mr. James P. Bearzi
NMED - Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg 1
Santa Fe, New Mexico 87505-6303

FROM: 49 CES/CEV
550 Tabosa Ave
Holloman AFB NM 88330-8458

SUBJECT: Partial Response to the Notice of Deficiency (NOD) on SWMU
Assessment Report, Holloman AFB, Septic Tanks, Dated 13 Set 07.

1. The partial answer to the subject NOD is attached. A future work plan to address missing information is planned pending receipt of funds.
2. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
3. If you have any questions, please contact 1 Lt Amanda Huffman at (575) 572-3931.

DEBORH J. HARTELL
Chief, Environmental Flight

Attachments:

1. NOD Response Table
2. 2 of 2 Map Tubes

(w/Atch)
Mr. David Strasser
Hazardous Waste Bureau
5500 San Antonio Dr. NE
Albuquerque, NM 87109

(w/o Atch)
Mr. Will Moats
Hazardous Waste Bureau
5500 San Antonio Dr. NE
Albuquerque, NM 87109

(w/o Atch)
Ms. Laurie King
USEPA, Region 6 (6PD-F)
1445 Ross Ave Ste 12
Dallas TX 75202-2733

7007 1490 0000 7439 0647

Global Power for America

Septic Tanks NOD Requirements 13 March 2008

<p>Notes: Attachment A Attachment 1 Attachment 2 Attachment 3 2 of 2 Map Tubes</p>	<p>List of Attachments Bldg 308 Layout of how it is connected to the sewer system Test Track Letter Bldg 1190 Flammable Waste Stream Attachment 4 - 46d</p>	<p>Reference in Table Response Reference in Table Response Reference in Table Response Reference in Table Response Reference in Table Response</p>
Item #	NMED Comment	HAFB Response
1. Active systems	For 25 active systems, no investigations are required. However, NMED must be notified 90 days before any are deactivated or removed.	Concur
2. Inactive/removed septic systems	Confirm that all sites in use w/ inactive/ removed septic systems have been connected to sewer system and provide dates	<p>Buildings 1219, 1226, 1235 and 1239 are still active septic tanks and were erroneously reported as being inactive.</p> <p>Inactive Septic Tanks: Bldg. 308 is connected to the Sewer System through Bldg. 309 seen in Attachment 1 and 45b</p> <p>Bldg. 1199 was connected to the sewer system in 1995 when the Test Track was connected. See Attachment 45a.</p> <p>Bldg. 1221 was connected to the sewer system in 2001. See Attachment 45a.</p>

		<p>Bldg. 1200 is connected to the sewer system. See Attachment 45d The building is currently a secured vacant building and the floor drains have been plugged. This buildings are on the demolition list and will be torn down in the upcoming year.</p> <p>Bldg. 1201 is connected to the sewer system. See Attachment 45d The building is currently a secured vacant building and the floor drains have been plugged. This buildings are on the demolition list and will be torn down in the upcoming year.</p> <p>Bldg. 920, 921, 922 and 924 are abandoned and not in use. These buildings are currently not connected to the sewer system. See Attachment 45c. These buildings are on the proposed demolition list and will likely be torn down in the next five years.</p> <p>Bldg. 1097 was used as a communication work center until 2005 and is currently being used to house base radio system network. This building is not connected to the sewer system.</p> <p>Bldg. 1194 has been used for storage for the past 10 years, currently not connected to the sewer system.</p>
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		<p>Bldg. 1196 has been used for storage for the past 10 years, currently not connected to the sewer system.</p> <p>Bldg. 1250 has been used for storage for the past 15 years. There is no record of the building being connected to the sewer system. See Attachment 45e.</p> <p>Bldg. 1251 has been vacant since the mid 90s. There is no record of the building being connected to the sewer system. See Attachment 45e.</p> <p>Bldg. 1091 has been torn down, but the septic tank is still in place.</p> <p>Bldg. 1190 has been torn down, but the septic tank is still in place.</p> <p>Newly Added Inactive Septic Tank Bldg. 702 is currently connected to the sewer system and the septic tank is still in place.</p> <p>Removed Septic Tanks Bldg. 1102 was connected to the sewer system in 2001. See Attachment 45a.</p> <p>Bldg. 1103 was connected to the sewer system in 2001. See Attachment 45a.</p>
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		<p>Bldg. 1108 was connected to the sewer system in 2001. See Attachment 45a.</p> <p>Bldg. 1119 was connected in 2001 to the sewer system. See Attachment 45a.</p> <p>Bldg. 1150 has been connected to the sewer system. See Attachment 45a.</p> <p>Bldg. 1154 has been connected to the sewer system. See Attachment 45a.</p> <p>Bldg. 1166 is part of the Test Track buildings and was connected to the sewer system in 1995. See Attachment 45a.</p> <p>Bldg. 1173 is part of the Test Track buildings and was connected to the sewer system in 1995. See Attachment 45a.</p> <p>Bldg 1175 is part of the Test Track buildings and was connected to the sewer system in 1995. See Attachment 45a. Bldg 1176 is part of the Test Track buildings and was connected to the sewer system in 1995. See Attachment 45a.</p> <p>Bldg. 1265 has been connected to the sewer system. See Attachment 45a.</p> <p>Bldg. 1269 has been connected to the sewer system.</p>
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		<p>Newly Added Removed Septic Tanks Bldg 638 is used for T-38 engines and is currently connected to the sewer system. There was no sign of a septic tank during the site visit.</p> <p>Bldg 642 was in a restricted area and near rotating radar so we were unable to do a site visit.</p> <p>Bldg 1142 has been abandoned and there is no sign of a septic tank during the site visit. Bldg 1168 was in a restricted area near the test track and so we were unable to do a site visit. All septic tanks were removed from the test track area in 1995. This septic tank should have also been removed.</p> <p>Bldg. 1155 is currently connected to the sewer system. There was no sign of a septic tank during the site visit.</p>
<p>3. Removed systems</p>	<p>Submit copies of field notes, reports, sampling results associated with removal of septic systems that removal complied with Liquid Waste Regs. 20.7.3.307 NMAC. Provide info that any potential source of haz constituent contamination does not remain.</p>	<p>A layout of Holloman AFB with the location of active, inactive and removed septic tanks has been provided. See attachment 23.</p> <p>No field notes, reports, or sampling results could be located.</p> <p>This requirement will be addressed by the future work plan.</p>
<p>4. AOC-L (OT-37) and High Speed Test Track</p>	<p>Confirm whether or not these sites as well as those along the track or in the vicinity of the track historically used septic systems. Provide required background information, same as</p>	<p>Test Track did use septic tanks and they have been removed. The buildings at the Test Track that had septic tanks are 1166, 1173, 1175 and 1176. All buildings</p>

	number 3 above, if used.	located at or near the test track were connected to Holloman's sewer system in 1995. A letter sent to NMED is attached (Attachment 2) giving information about the sewer system put in the test track area. Information concerning items detailed in #3 above is not currently available and will be addressed in the future work plan.
5. Leachfields	Map all leachfields and distribution lines associated with inactive septic tanks. For inactive system sites where unknown locations and depths of the septic tanks and leachfields, excavate a portion of the tank and leachfield to determine soil sample locations and depths. Usually 3 samples at bottom and 5 ft below bottom of leachfield lines.	<p>Drawings have been provided for the following buildings:</p> <p>924 (Attachment 4) 1091 (Attachment 7) 1097 (Attachment 8 & 9) 1199 (Attachment 12) 1200 (Attachment 16) 1201 (Attachment 17) 1221 (Attachment 21) 1102 (Attachment 27 & 28) 1103 (Attachment 29) 1108 (Attachment 31) 1166 (Attachment 32) 1176 (Attachment 39)</p> <p>A base maps has been provided showing leachfield locations in 1984 for the following buildings:</p> <p>920, 921, 922, 924 (Attachment 46a)</p> <p>639, 640, 700 and 1091 (Attachment 46b)</p> <p>1102, 1103, 1142, 1150, 1154, 1158, 1173, 1174, 1175, 1176, 1178, 1179, 1180, 1183, and 1199 (Attachment 46c)</p>

		<p>1190, 1194, 1196, 1200, 1201 and 1221 (Attachment 46d)</p> <p>No maps were available for the following: Inactive Septic Tanks: 1250 and 1251 Removed Septic Tanks: 1119, 1265 and 1269</p> <p>Sampling requirements will be addressed in the future work plan.</p>
6. Info on sumps or floor drains	For all inactive septic tank sites, locate all floor drains and sumps that could drain into the septic system and provide a description of contaminants of potential concern that could have been discharged.	<p>Bldg. 924 (Attachment 5 & 6) Bldg. 1097 (Attachments 9 & 10) Bldg. 1190 (Attachment 11) Bldg. 1199 (Attachment 13) Bldg. 1200 (Attachment 14 & 15) Bldg. 1201 (Attachment 18 & 19) Bldg. 1221 (Attachment 22) Bldg. 1175 (Attachment 33 – 35) Bldg. 1176 (Attachment 36) Bldg. 1265 (Attachment 40 – 44)</p> <p>Requirements will be addressed in the future work plan.</p>
7. Contaminants of concern	For all inactive septic tank systems, submit description of past/present activities and list contaminants of potential concern (COPCs). The list of COPCs will be the minimum list of analytes for future sampling and analysis.	A Spill Plan from 1989 showed what was stored at a select number of buildings listed below.

		<p>Bldg 308</p> <table border="1"> <thead> <tr> <th><u>Chemical</u></th> <th><u>Container Type</u></th> </tr> </thead> <tbody> <tr> <td>MEK</td> <td>1 gallon can</td> </tr> <tr> <td>Polyurethane Paint</td> <td>1 gallon can</td> </tr> <tr> <td>Naptha</td> <td>1 gallon can</td> </tr> <tr> <td>Toluene</td> <td>1 gallon can</td> </tr> <tr> <td>Epoxy Primer</td> <td>1 gallon can</td> </tr> <tr> <td>PD-680 Type II</td> <td>55 gallon drum</td> </tr> <tr> <td>Waste Paint/Thinners</td> <td>55 gallon drum</td> </tr> </tbody> </table> <p>Bldg 1091</p> <table border="1"> <thead> <tr> <th><u>Substance</u></th> <th><u>Vol/No of Tanks/Type</u></th> </tr> </thead> <tbody> <tr> <td>Diesel</td> <td>250 gal each/ 1 / UST</td> </tr> </tbody> </table> <p>Bldg 1097</p> <table border="1"> <thead> <tr> <th><u>Substance</u></th> <th><u>Vol/No of Tanks/Type</u></th> </tr> </thead> <tbody> <tr> <td>Diesel</td> <td>250 gal each/ 1 /AST</td> </tr> <tr> <td></td> <td>500 gal each/ 1 /UST</td> </tr> <tr> <td></td> <td>(Abandoned)</td> </tr> </tbody> </table> <p>Bldg. 1235</p> <table border="1"> <thead> <tr> <th><u>Substance</u></th> <th><u>Vol/No of Tanks/Type</u></th> </tr> </thead> <tbody> <tr> <td>MOGAS</td> <td>500 gal each/ 1 /AST</td> </tr> </tbody> </table> <p>Requirements will be addressed in the future work plan.</p>	<u>Chemical</u>	<u>Container Type</u>	MEK	1 gallon can	Polyurethane Paint	1 gallon can	Naptha	1 gallon can	Toluene	1 gallon can	Epoxy Primer	1 gallon can	PD-680 Type II	55 gallon drum	Waste Paint/Thinners	55 gallon drum	<u>Substance</u>	<u>Vol/No of Tanks/Type</u>	Diesel	250 gal each/ 1 / UST	<u>Substance</u>	<u>Vol/No of Tanks/Type</u>	Diesel	250 gal each/ 1 /AST		500 gal each/ 1 /UST		(Abandoned)	<u>Substance</u>	<u>Vol/No of Tanks/Type</u>	MOGAS	500 gal each/ 1 /AST
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<p>8. Report Maps</p>	<p>The maps provided are deficient. For all inactive sites, maps must include:</p> <ol style="list-style-type: none"> base-wide site map so reader can accurately locate the subject site. A coordinate system (UTM, lat/log) and boundaries of the site shown on all site maps. A north arrow. 	<ol style="list-style-type: none"> Attachment 23 is a base wide map with the locations of active, inactive and removed septic tanks at Holloman AFB <p>Extra maps for a number of buildings have also been provided and should provide needed information. The attachments are listed below.</p>																																

	<p>d. The locations of the septic tanks, sumps, floor drains, distribution lines and leachfields.</p> <p>e. Any proposed sample locations must be shown accurately.</p>	<p>Attachment 24 – Bldg. 1221 Septic Tank Details and Sewage Disposal System</p> <p>Attachment 25 – Bldg. 1221 Profile of Sewer line Septic Tank and Disposal Field</p> <p>Attachment 26 – Bldg. 1102 Grading Plan</p> <p>Attachment 30 – Bldg. 1108 Utility Plot Plan, Septic Tank Details, Sewer Clean Out, Toilet Room</p> <p>Attachment 37 – Bldg. 1176 New Drain Pit and Utility Plan</p> <p>Attachment 38 – Bldg. 1176 Sewer Clean Out and Utilities Contour Plan</p> <p>b. Reference grid system can not be placed on maps used outside of the Department of Defense</p> <p>c. Provided on maps and blueprints</p> <p>d. Provided on maps and blueprints</p> <p>e. Currently no proposed sample locations exist. Sampling will be addressed in the future work plan.</p>
<p>9. RCRA Facility Investigation Work Plans and Reports</p>	<p>For all inactive sites, submit RFI work plans (or single wp for all) and a final RFI Report.</p>	<p>Funding for the work plan and final RFI report will be requested.</p>
<p>10. Bldg 308 (Inactive)</p>	<p>Describe process in historic weapons calibration operations. Solvent use, type, types of aircraft support equipment currently stored in the building.</p> <p>Permit Table B lists B 308 as “Waste Accumulation Area”. Explain why.</p>	<p>At one time hazardous waste was accumulated in this building. The types of hazardous materials used in this building are:</p>

		<p>Bldg 308</p> <table border="1"> <thead> <tr> <th>Chemical</th> <th>Container Type</th> </tr> </thead> <tbody> <tr> <td>MEK</td> <td>1 gallon can</td> </tr> <tr> <td>Polyurethane Paint</td> <td>1 gallon can</td> </tr> <tr> <td>Naptha</td> <td>1 gallon can</td> </tr> <tr> <td>Toluene</td> <td>1 gallon can</td> </tr> <tr> <td>Epoxy Primer</td> <td>1 gallon can</td> </tr> <tr> <td>PD-680 Type II</td> <td>55 gallon drum</td> </tr> <tr> <td>Waste Paint/Thinners</td> <td>55 gallon drum</td> </tr> </tbody> </table> <p>Hazardous waste is no longer accumulated.</p>	Chemical	Container Type	MEK	1 gallon can	Polyurethane Paint	1 gallon can	Naptha	1 gallon can	Toluene	1 gallon can	Epoxy Primer	1 gallon can	PD-680 Type II	55 gallon drum	Waste Paint/Thinners	55 gallon drum
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11. Bldg 920, 921, 922, 924	<p>-Permit Table B, SWMU 134 "Drainage Ditch". NFA granted Feb 01. Explain why this site was considered a SWMU and what was done to achieve NFA by submitting SOB for NFA.</p> <p>-Provide results of all sampling/analysis associated with wells MW24-01, 24-03, 24-05, 24-06.</p> <p>-OT-24 shown on restoration map is not on permit tables. Provide description of OT-24, summary of all activities at site and contaminants of potential concern.</p> <p>-Bldg 924—provide a description of processes involved in radar equipment maintenance operations—solvent use, type etc.</p>	<p>Found drawings for Bldg 924, but we were unable to gather any other information. Bldg 924 Attachment 4 – 6</p> <p>Requirements will be addressed in the future work plan.</p>																
14. Bldg 1190	<p>Bldg demo'd 2002 (it appears septic tank is still in place).</p> <p>- Submit RFI work plan to locate inactive septic tank, sumps or floor drains, leachfield, distribution lines</p> <p>- Develop list of contaminants of concern (TPH, VOC, SVOC, metals)</p>	<p>Yes, the septic tank is still in place although the building has been demo'd. An on site investigation showed that the tank was empty, but still on site. See Attachment 46c for the location of the leachfield.</p>																

	<ul style="list-style-type: none"> -Soil sampling -Results for site characterization 	<p>See Attachment 11 for a layout of Bldg 1190.</p> <p>Hazardous waste records show flammable waste stream existed in 1993. For more information see Attachment 3. This waste stream is no longer active.</p> <p>Sampling will be addressed in the future work plan.</p>
15. Bldg 1194	<ul style="list-style-type: none"> - Is septic tank still in place? - Investigate just like the above 	<p>Yes, the septic tank is still in place.</p> <p>See Attachment 46c for the location of the leachfield.</p> <p>Requirements will be addressed in the future work plan</p>
16. Bldg 1196	<p>Historic missile assembly operations in this building</p> <ul style="list-style-type: none"> - Provide description of processes involved, solvent use, etc. 	<p>This building was used in the past as Tacan navigation system. The system type is a rotating beam beacon navigation system. See Attachment 46c for the location of the leachfield</p> <p>For the last 10 years this building has been used for storage.</p> <p>Requirements will be addressed in the future work plan</p>
17. Bldg 1199	<p>Information provided indicates bldg was used as a rocket fuel laboratory</p>	<p>The septic tank is still in place.</p> <p>Requirements will be addressed in the future work plan.</p>
18. Bldg 1200 and 1201	<p>Permit Table A, part of OT-32 "Primate Research Lab Sewer Line", part of ACM Work Plan approved in Apr 07</p> <ul style="list-style-type: none"> -History indicated bldgs used as bio labs for animal experiments. If septic tank is still in place, must investigate same as bldg 1190 	<p>Yes, the septic tank is still in place.</p> <p>See Attachment 46c for the location of the leachfield</p> <p>No record of hazardous waste produced in this facility.</p> <p>Sampling will be addressed in the future work plan.</p>

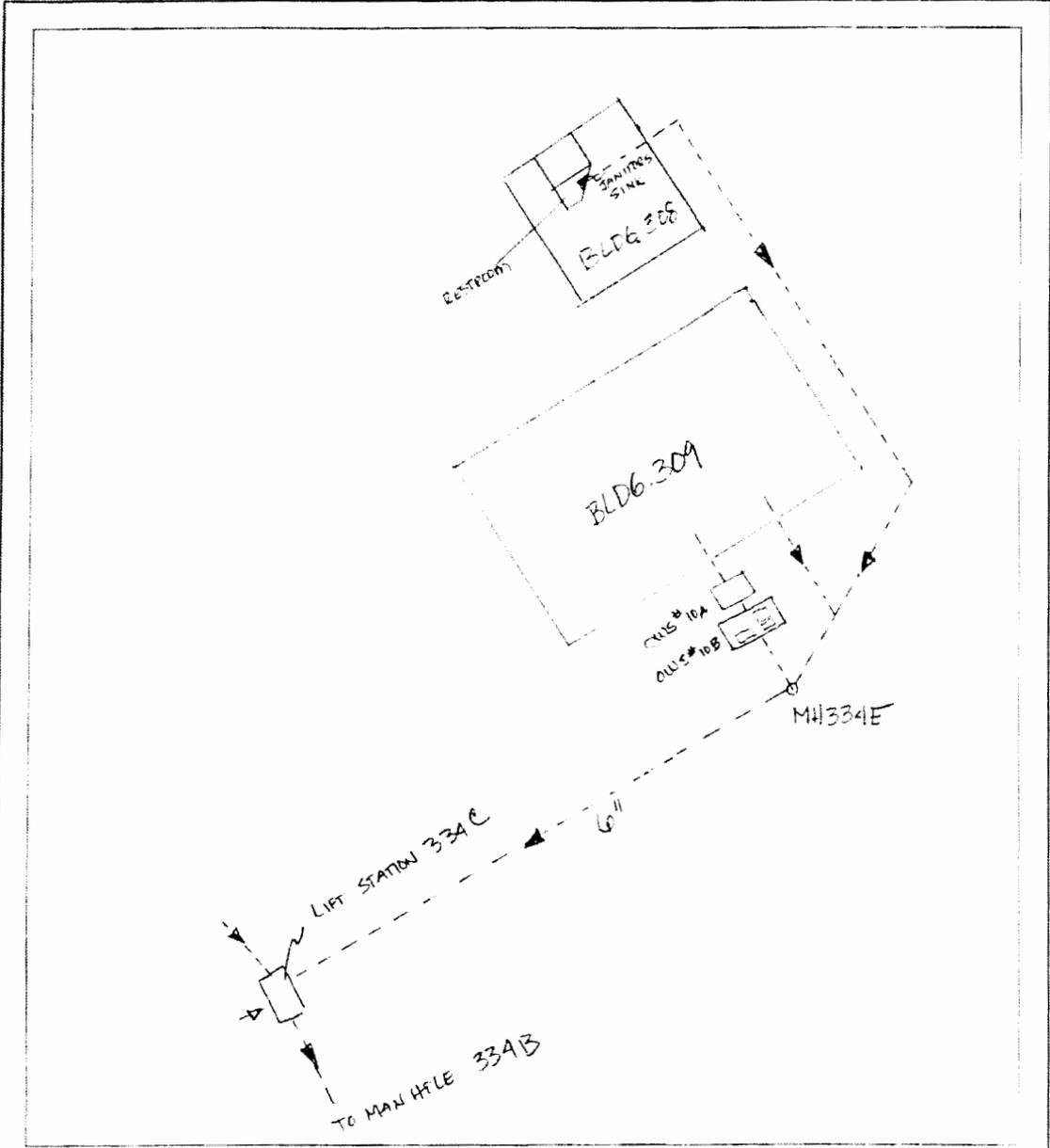
20. Bldg 1221	Ammo storage, septic in place - Investigate as bldg 1190	Yes, the septic tank is still in place. See Attachment 46c for the location of the leachfield. See attachment 21 for more details and information. See attachment 22 for information on building floor drains and sumps. Sampling will be addressed in the future work plan.
21. Bldg 1226, 1235, 1239	Ammo maintenance, septic in place -Investigate as bldg 1190	As noted in #2 above septic tanks are still in place and are actively being used.
23. Bldg 1251	Research and testing shop -Investigate as bldg 1190	We recently looked for but did not locate this tank. Requirements will be addressed in the future work plan.
24. Bldg 1269	Medical Science Lab - Investigate as bldg 1190	The septic tank for Bldg 1269 has been removed according to the recent field investigation.

List of Attachments

A – List of Attachments

- 1 – Bldg. 308 Layout of how it is connected to the sewer system
- 2 – Test Track Letter
- 3 – Bldg. 1190 Flammable Waste Stream
- 4 – Bldg. 924 Septic Tank Details
- 5 – Bldg. 924 Latrine Cross Section
- 6 – Bldg. 924 Plumbing Plan
- 7 – Bldg. 1091 Septic Tank Details, Septic Tank Drain Field and the Drain Field Details
- 8 – Bldg. 1097 Materials Septic System
- 9 – Bldg. 1097 Septic Tank Placement and Piping & Latrine Plan
- 10 – Bldg. 1097 Mechanical Plumbing Plan
- 11 – Bldg. 1190 Plumbing Floor Plan
- 12 – Bldg. 1199 Site Plan, the Sewer Isometric and the Plumbing Plan
- 13 – Bldg. 1199 Floor Plan
- 14 – Bldg. 1200 Plumbing Floor Plan
- 15 – Bldg. 1200 Floor Plan
- 16 – Bldg. 1200 Septic Tank and Drain Field
- 17 – Bldg. 1201 Septic Tank and Absorbent Area Layout, Isometric Sewer Layout, Septic Tank Plan and Septic Tank Elevation
- 18 – Bldg. 1201 Floor Plan
- 19 – Bldg. 1201 Layout Plan
- 20 – Bldg. 1201 Systematic-Waste System
- 21 – Bldg. 1221 Site Plan
- 22 – Bldg. 1221 Floor Plan
- 23 – Layout of Holloman AFB with active, inactive and removed septic tank locations
- 24 – Bldg. 1221 Septic Tank Details and Sewage Disposal System
- 25 – Bldg. 1221 Profile of Sewer Line Septic Tank and Disposal Field
- 26 – Bldg. 1102 Grading Plan
- 27 – Bldg. 1102 Septic Tank Details and Boring Log Results
- 28 – Bldg. 1102 Leaching Well and Cover Details and Sewer Clean Out
- 29 – Bldg. 1103 Layout Plan
- 30 – Bldg. 1108 Utility Plot Plan, Septic Tank Details, Sewer Clean Out, Toilet Room Details
- 31 – Bldg. 1108 Plan Details
- 32 – Bldg. 1166 Sewer Layout and the Septic Tank Details
- 33 – Bldg. 1175 Trench Pit, Toilet Room Details, Trench Junction to UPS
- 34 – Bldg. 1175 Sanitary Sewer Manhole
- 35 – Bldg. 1175 Water and Sewer Piping
- 36 – Bldg. 1176 Plumbing Plan
- 37 – Bldg. 1176 New Drain Pit and Utility Plan
- 38 – Bldg. 1176 Sewer Clean Out and Utilities Contour Plan
- 39 – Bldg. 1176 Septic Tank Details
- 40 – Bldg. 1265 Water Piping Diagram and Partial Plumbing Plan
- 41 & 42 – Bldg. 1265 Floor Plan
- 43 – Bldg. 1265 Building, Pavement and Utilities Layout and Sewer Clean Out

- 44 – Bldg 1265 Enlarged Plan
- 45 – Shows layout for Holloman AFB Sewer Pipe Line
- 45a – Buildings 1102, 1103, 1108, 1119, 1154, 1194, 1196, 1199, 1200, 1201, 1221,
1176
- 45b – Building 308
- 45c – Buildings 920, 921, 922, 924
- 45d – Building 1097
- 45e – Building 1250, 1251
- 46 – Shows layout of Holloman AFB in 1984 and where Septic Tank Leach Field
locations
- 46a – Buildings 920, 921, 922, 924
- 46b – Buildings 638, 640, 702, 1091
- 46c – Buildings 1102, 1103, 1108, 1142, 1150, 1154, 1166, 1173, 1175, 1176, 1178,
1188
- 46d – Buildings 1190, 1194, 1196, 1200, 1201 and 1221



APPROXIMATE
SCALE IN FEET

NOT TO SCALE



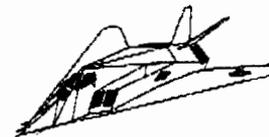
INDUSTRIAL WASTEWATER PRETREATMENT STUDY
AIR COMBAT COMMAND
HOLLOMAN AFB NEW MEXICO

FIGURE 1-23
LOCKHEED MARTIN ACE SHOP
(BLDG 308)

JOB NO. DD8910	DRAWING NO. 1-23	DATE 12/97	SCALE 1"=5'
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Attachment ~~#1~~ #2

FACSIMILE TRANSMITTAL HEADER SHEET



**United States Army
Corps of Engineers
Albuquerque District PPMD**

FAX NUMBER FROM: (505) 342-3494

FAX NUMBER TO: 505-475-7015

COMMAND	OFFICE SYMBOL	TELEPHONE NUMBER	AUTHORIZED RELEASER'S SIGNATURE
FROM: BRAD GREEN	CESWA-PP-M	(505) 342-3209	<i>Brad Green</i>
TO: BRENT HUNT	49CES-CEV	(505) 475-3931	DATE: March 22, 1996
CLASSIFICATION UNCLASSIFIED	No. PAGES H + 3	PRECEDENCE	REMARKS:

BRENT,

1. FY94 SEWER EFFLUENT SYSTEM. COPY OF THE TRANSMITTAL LETTER TO NMEID. I HOPE THIS INFORMATION PROVIDED HELPS.

2. Please call if you have any questions.

Brad



DEPARTMENT OF THE ARMY
ALBUQUERQUE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1680
ALBUQUERQUE, NEW MEXICO 87103-1680
FAX (505) 786-2770

REPLY TO
ATTENTION OF:

Engineering and Planning Division
General Engineering Section

August 5, 1994

Mr. Mike Coffman
Surface Water Bureau
New Mexico Environmental Improvement Division
1190 St. Francis Drive
Santa Fe, NM 87503

RE: Holloman Air Force Base, Sewer Effluent System

Dear Mr. Coffman:

Enclosed for your information are drawings, specifications, and a design analysis for the Sewer Effluent System at Holloman Air Force Base near Alamogordo, New Mexico. This project will replace the current septic tank and leach field systems presently used for sanitary sewage disposal at the Test Track, King I, and Queen I Areas at Holloman with a system of gravity sewers, lift stations, and force mains. The new sewer effluent system will convey the sewage to the existing sanitary sewage system.

As I have mentioned to you in our telephone conversations over the past year, a portion of the new sewer system will cross the Lost River Basin, an ephemeral stream located south of the Test Track Area. Portions of the Lost River are home to the White Sands pupfish (Cyprinodon tularosa), a State of New Mexico-listed endangered species. We have consulted with the U.S. Fish and Wildlife Service concerning the pupfish, in accordance with the Endangered Species Act. A copy of a letter from the Fish and Wildlife Service is contained in Appendix "A" of the enclosed design analysis, and in part reads: "Construction of the (sewer) line across the dry lake bed of Lost River will not have any effect upon the White Sands pupfish (CYPRINODON TULAROSA) or its habitat. The important habitat for the pupfish is upstream of the dry lake in the Lost River proper. Thus, any activity which would disturb the lake bed would not affect the pupfish." Therefore, the new sewer line (referred to as Line "A") crossing the Lost River has been located in the "dry lake" (basin) portion of the river, downstream of the critical pupfish habitat, and is shown in plan and profile on Sheet C-2 of the enclosed drawings. We have not planned, nor will we allow any work in the critical pupfish habitat upstream of the sewer line crossing. In the unlikely event that the Line "A" crossing becomes inundated, and pupfish are present, work will not be allowed; this is explicitly stated in Section 01120 of the project specifications, "PROTECTION OF THE WHITE SANDS PUFFISH HABITAT."

Mr. Coffman
RE: Holloman Air Force Base, Sewer Effluent System

August 5, 1994

The proposed sewer line crossing will be a 4-inch diameter non-ferrous force main sewer, buried below the estimated 12.5-foot scour depth of the 50-year recurrence flood in the river basin at this location. The lift station (named "A1") that pumps effluent through this force main is located above the estimated 100-year recurrence flood elevation of 4037.6 feet at this location. De-watering of groundwater in the trench excavation for the sewer line in the river will be required. Construction in the basin will be covered under the Corps' "Nationwide 12" Section 404 permit of the Clean Water Act.

The design of the sewer lines and lift stations are in accordance with the Environmental Improvement Division's "Guidelines for Wastewater Collection and Treatment Works in New Mexico", dated February 12, 1987, and other references listed on pages I-2 and I-3 of the design analysis. A detailed discussion of the design of the sewer lines and lift stations is presented in Part II of the design analysis.

Of note in the project design are provisions for the loss of electrical power or pump malfunctions at the lift stations. All lift station pump controllers are provided with voice-synthesized telephone dialers that will transmit lift station alarm conditions to eight telephone numbers designated by the Holloman Base Civil Engineer's Office (BCE). In addition, the BCE may dial into the lift stations to remotely assess the operation of the lift stations. In the case of a pump malfunction or power failure in the Test Track Area, effluent collected at Lift Station B1 (shown on Sheet C-10) will be stored in the lift station wet well and a 10,000 gallon underground storage tank. This tank is sized to accommodate an average day's volume of effluent generated by the buildings serviced by Lift Station B1. These buildings are the principal source of effluent generated for the project. Another effluent storage tank is provided in the King I Area at Lift Station A3, shown on Sheet C-6. This storage tank is provided to collect effluent pumped from the Test Track Area. This is necessary because the Test Track Area and the King I Area are on different primary electrical distribution circuits, which means that a power failure in the King I Area might mean that effluent would still be pumped to the King I Area. The other lift stations in the system do not need storage tanks because they either (1) have sufficient wet well storage capacity, or (2) they are located downstream of the storage tanks at lift stations B1 or A3 (which will intercept their flows). A detailed explanation of the operation and maintenance requirements of the lift stations is provided in Part XI of the design analysis.

A Stormwater Pollution Prevention Plan in accordance with the National Pollutant Discharge Elimination System (NPDES) has been prepared to specify the control of runoff during the construction of the project and post-construction closure (seeding and mulching). A copy of this plan will be maintained at the project, and a copy is available upon request.

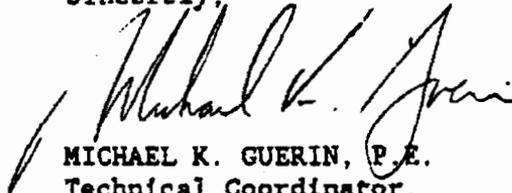
If you have any comments regarding the project design, please forward them to me by September 2, 1994.

Mr. Coffman
RE: Holloman Air Force Base Sewer Effluent System

August 5, 1994

Thank you for answering the numerous questions I have asked you during the design of the project. If there is any further information you desire on the Sewer Effluent System project, please call me at (505) 766-8286, FAX (505) 766-8733.

Sincerely,



MICHAEL K. GUERIN, P.E.
Technical Coordinator,
HAFB Sewer Effluent System

Attachment: #3

HAZARDOUS WASTE PROFILE SHEET

PART I

A. GENERAL INFORMATION
 WASTE PROFILE NO. 50-93-206

49 Sps

1. GENERATOR NAME Holloman Air Force Base

2. FACILITY ADDRESS Highway 70 West
Holloman AFB, New Mexico

3. GENERATOR USEPA ID NM 6572124422

4. GENERATOR STATE ID _____

5. ZIP CODE 88530

6. TECHNICAL CONTACT TSgt Joseph K. Klaszyk

7. TITLE Security Police **PHONE** 15051475-3193

B. 1. NAME OF WASTE Rife Boze Cleaner

2. USEPA or STATE WASTE CODE(S) D001

3. PROCESS GENERATING WASTE Used Material

4. PROJECTED ANNUAL VOLUME/UNITS (1) 30 gal / 6 months

5. MODE OF COLLECTION Drum

6. IS THIS WASTE A DIOXIN LISTED WASTE AS DEFINED IN 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, OR F028)? YES NO

7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL (40 CFR 268)? YES NO

HAS AN EXEMPTION BEEN GRANTED? YES NO

DOES THE WASTE MEET APPLICABLE TREATMENT STANDARDS? YES NO REFERENCE STANDARDS _____

PART II

1. MATERIAL CHARACTERIZATION (OPTIONAL-NOT REQUIRED DATA)

COLOR _____

DENSITY _____ BTU/LB _____

TOTAL SOLIDS _____ ASH CONTENT _____

LAYERING: MULTILAYERED BILAYERED SINGLE PHASE

2. RCRA CHARACTERISTICS

PHYSICAL STATE: SOLID LIQUID SEMI-SOLID

GAS OTHER

TREATMENT GROUP: WASTEWATER NON-WASTEWATER

IGNITABLE (D001) 125°F REACTIVE (D003)

FLASH POINT (F) _____ WATER REACTIVE

HIGH TOC (> 10%) _____ CYANIDE REACTIVE

LOW TOC (< 10%) _____ SULFIDE REACTIVE

CORROSIVE (D002) _____ TOXICITY CHARACTERISTIC (SEE REVERSE FOR LISTING)

pH _____

CORRODES STEEL

3. CHEMICAL COMPOSITION (ppm or mg/L)

COPPER _____ PHENOLICS _____

NICKEL _____ TOTAL HALOGENS _____

ZINC _____ VOLATILE ORGANICS _____

CHROMIUM-HEX _____ PCBs _____

(OTHER) _____

NOTE: EXPLOSIVES, SHOCK SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE NORMALLY ARE NOT ACCEPTED BY THE DRMO

4. MATERIAL COMPOSITION

COMPONENT	CONCENTRATION	RANGE
Solvent Petroleum	Hydrocarbon 60%	
6L (Lightweight)	35%	
Corrosion Inhibitor	5%	
TOTAL	100%	

5. SHIPPING INFORMATION

DOT HAZARDOUS MATERIAL? YES NO

PROPER SHIPPING NAME Waste Flammable Liquid
NOS (Contains Rife Boze Cleaner) UN 2924
1993

HAZARD CLASS 3 U.N. or N.A. NO UN ~~2924~~ 1993

ADDITIONAL DESCRIPTION _____

METHOD OF SHIPMENT BULK DRUM OTHER _____

CERCLA REPORTABLE QUANTITY (RQ) 100 lbs / D001

EMERGENCY RESPONSE GUIDE PAGE _____

DOT PUBLICATION 6800.4 PAGE NO. 27 EDITION (YR) 90

SPECIAL HANDLING INFORMATION _____

6. GENERATOR CERTIFICATION

BASIS FOR INFORMATION

CHEMICAL ANALYSIS (ATTACH TEST RESULTS)

USER KNOWLEDGE (ATTACH SUPPORTING DOCUMENTS - Explain how and why these documents comply with RCRA requirements)

I, _____, HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED IN TO THE DRMO. ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

SIGNATURE OF GENERATOR'S REPRESENTATIVE _____ **DATE** 21 Sep 93