

N83447.AR.000058
NAS FORT WORTH
5090.3a

RCRA PERMIT TO DISPOSE OF HAZARDOUS WASTE IN ACCORDANCE WITH TEXAS
WATER COMMISSION NAS FORT WORTH TX
3/29/1991
TEXAS WATER COMMISSION



**NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 559

EPA ID NO. TX0571924042
TWC Permit NO. HW-50289

AUTHORIZATION TO OPERATE UNDER THE
RESOURCE CONSERVATION AND RECOVERY ACT

In compliance with the Resource Conservation and Recovery Act (RCRA), as amended,

U.S. Air Force / Carswell Air Force Base
CSG / CC Carswell AFB
Fort Worth, Texas 76127-5000

is authorized to dispose of hazardous waste in accordance with the limitations, requirements and other conditions set forth herein at a facility located in Tarrant County, Fort Worth, Texas. (North Latitude 32°45'53", West Longitude 97°25'44").

This is a joint permit issued by the Texas Water Commission (TWC) and the Environmental Protection Agency (EPA) and is issued, in part, pursuant to the Hazardous and Solid Waste Amendments of 1984 (HSWA), amending RCRA. The provisions in this permit marked by an asterisk (*), and conditions under Provisions V.I, V.M, and V.N attached to this authorization, stem from HSWA and are hereby issued under Federal authority. Any notification or report sent to TWC regarding or required by Provisions V.I, V.M, and V.N shall also be sent to the Hazardous Waste Management Division, EPA, Region 6. Provisions V.I, V.M and V.N are subject to review and approval by both EPA and TWC.

This permit is based on the assumption that all information contained in the permit application is accurate and that the facility will be constructed and operated as specified in the permit application. The permit application consists of all information regarding this facility submitted September 6, 1989, May 2, 1990 and August 21, 1990, to TWC. The permit may be modified, revoked and reissued, or terminated for cause, which includes failing to fully disclose all relevant facts in the application or during permit issuance, or misrepresentation of any relevant facts at any time. (See 40 CFR 270.41, 270.42, and 270.43).

The permit provision issued under the above cited Federal authority shall be effective on April 30, 1991 and shall expire at midnight on February 7, 2001.

Issued this 29th day of March, 1991.

by Allyn M. Davis
Allyn M. Davis, Director
Hazardous Waste Management Division

PERMIT NO. HW-50289
 EPA I.D. No. 0571924042
 NAME: U.S. Air Force/Carswell Air Force Base

CONTINUATION SHEET 3 OF 20

[II.A.2.b.]

b.	<u>Waste Descriptions</u>	<u>TWC Waste Class</u>	<u>Hazard Code</u>
(10)	Batteries, dry cell	IH	TC,C,R
(11)	Batteries, Metal/electrolyte	IH	TC,C,R
(12)	Benzene	IH	T
(13)	Benzene, Hydroxy/Phenol	IH	T
(14)	Boric Acid	IH	C
(15)	Buthyl Alcohol	IH	I
(16)	Cadmium-bearing waste	IH	T
(17)	Carbon Disulphide	IH	T
(18)	Carbon Tetrachloride	IH	T
(19)	Chlorine	IH	R,T
(20)	Chloroform	IH	T
(21)	Chromium-bearing waste	IH	T
(22)	Corrosion Inhibitor	IH	T
(23)	Corrosive Liquid	IH	C
(24)	Cyclohexanone	IH	I
(25)	DDT	IH	T
(26)	Dichloride Ethylene	IH	I
(27)	Dichlorodifluoromethane	IH	T
(28)	Dichlorofluoromethane	IH	T
(29)	DS-2 Decontamination Agent	IH	R,C
(30)	Ethoxyethanol	IH	I
(31)	Ethyl Acetate	IH	T
(32)	Ethyl Alcohol	IH	I
(33)	Ethyl Benzene	IH	I,T
(34)	Ethyl Ether	IH	T
(35)	Formaldehyde	IH	T
(36)	Formic Acid	IH	T
(37)	Halogenated Solvent	IH	I
(38)	Heptane	IH	I
(39)	Hexachlorobenzene	IH	T
(40)	Hexahydrobenzene	IH	T
(41)	Hexane	IH	I
(42)	Hexanol	IH	I
(43)	Hydrazine or Diamine	IH	T,R
(44)	Hydrochloric Acid	IH	C
(45)	Ignitable Liquid and Solid Waste	IH	I
(46)	Isopentyl Alcohol	IH	I
(47)	Isopropyl Alcohol	IH	I
(48)	Iso-Butanol	IH	I
(49)	Lead-Bearing Waste	IH	T
(50)	Lithium Batteries	IH	R
(51)	Mercury-contaminated waste	IH	T,TC
(52)	Mercury Batteries	IH	TC
(53)	Methanol	IH	T,I
(54)	Methyl Ethyl Ketone	IH	T,I
(55)	Methyl Isobutyl Ketone	IH	T,I
(56)	Methylene Chloride	IH	T,I
(57)	Naptha Petroleum	IH	I
(58)	Napthalene	IH	I

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CONTINUATION SHEET 7 OF 20

[III.B.]

7. The permittee shall ensure that all waste analyses utilized for waste identification or verification have been performed in accordance with methods specified in the current editions of "Test Methods for Chemical Analysis of Water and Wastes" or "Test Methods for the Evaluation of Solid Waste" (SW-846) or other methods which are officially approved by the United States Environmental Protection Agency (U.S.E.P.A.). The permittee shall utilize only laboratories which follow a quality control/quality assurance program conforming to the program specified in "Test Methods for the Evaluation of Solid Waste" (SW-846).
8. The permittee shall comply with inspection requirements of 40 CFR §264.15.
9. The permittee shall comply with the training requirements of 40 CFR §264.16.
10. All tanks, sumps, pumps, fire and spill control equipment, decontamination equipment, and all other equipment and structures authorized or required by this permit shall be maintained in good functional condition.
11. The permittee shall comply with the security requirements of 40 CFR §264.14.

C. Container Storage Area Design, Construction, and Operation Requirements:

The permittee shall comply with the following minimum requirements for the container storage areas authorized by Provision II.B.

1. The container storage areas shall be constructed and operated to comply with 40 CFR §§264.170-264.178.
2. In addition, within 30 days of permit issuance by the TWC, the permittee shall comply with the following minimum requirements for the container storage area authorized by Provision II.B.:
 - a. The permittee shall provide a minimum of 30" aisle spacing between double rows of drums;
 - b. Drums of 55 gallons or more capacity shall not be stacked more than three high;
 - c. Pallets shall be used between layers of stacked drums; and
 - d. Drums of incompatible wastes shall be separated by an impermeable barrier.

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EPA I.D. No. 0571924042
NAME: U.S. Air Force/Carswell Air Force Base

CONTINUATION SHEET 11 OF 20

[V.]

- B. The permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency order issued by the TWC.
- C. For a new facility or unit requiring permitting, the permittee shall not commence storage, processing or disposal of solid waste; and for a permitted facility or unit being modified, the permittee shall not process, store or dispose of solid waste in the modified portion of the facility or unit, until the following requirements have been satisfied:
1. The permittee has notified the local TWC District Office and submitted to the Executive Director by certified mail or hand delivery a letter signed by the permittee and a Texas registered professional engineer certifying that the facility or unit has been constructed or modified in compliance with the permit. Required certification shall be in the following form:
This is to certify that the construction of the following facility unit(s) authorized or required by TWC Permit No. HW-50289 has been completed, and that construction of said facility unit(s) has been performed in accordance with and in compliance with the design and construction specifications of Permit No. HW-50289. (Description of facility units and components with reference to applicable permit provisions).
 - a. The permittee must also submit notification and documentation materials as described in Permit Provision C.1. to the Director of Hazardous Waste Division, U.S.E.P.A., Region VI Office.
 2. The Executive Director has inspected the modified or newly constructed facility or unit and finds it is in compliance with the conditions of the permit; or within 15 days of submitting the letter required by Provision V.C.1., the permittee has not received notice from the Executive Director of an intent to inspect, prior inspection is waived and the permittee may commence processing, storage or disposal of solid waste.
- D. The following details shall be included as information which must be reported orally within 24 hours pursuant to 31 TAC §305.125(9):
1. Information concerning release of any solid waste that may cause an endangerment to public drinking water supplies.
 2. Any information of a release or discharge of solid waste, or of a fire or explosion from a facility unit, which could threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include

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NAME: U.S. Air Force/Carswell Air Force Base

CONTINUATION SHEET 15 OF 20

[VI.B.]

1. Subpart B -- General Facility Standards;
2. Subpart C -- Preparedness and Prevention;
3. Subpart D -- Contingency Plan and Emergency Procedures;
4. Subpart E -- Manifest System, Recordkeeping, and Reporting;
5. Subpart G -- Closure and Post-closure; and
6. Subpart I -- Use and Management of Containers.

VII. Incorporated Application Materials

The permittee shall maintain the following documents at the facility and make them available for inspection by regulatory personnel.

A. Contingency Plan

The permittee shall follow the contingency plan, developed in accordance with 40 CFR Part §264, Subpart D, dated September 6, 1989, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The contingency plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of this permit upon the date of approval by the TWC.

B. Inspection Schedule

The permittee shall follow the inspection schedule, developed in accordance with 40 CFR §264.15, dated September 6, 1989, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The inspection schedule is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the schedule shall become provisions and conditions of this permit upon the date of approval by the TWC.

C. Closure Plan

Facility closure shall be completed in accordance with the requirements of 31 TAC §335.152 and 40 CFR Part 264 Subpart G and the closure plan dated September 6, 1989, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The closure plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of the permit upon the date of approval by the TWC.

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NAME: U.S. Air Force/Carswell Air Force Base

[VIII.A.2.b.(4)]

increase over background has occurred for soil and water samples. The plan shall include a schedule for collecting samples from monitor wells during 3 sampling events spaced at 2 month intervals and analyzed in accordance with USEPA SW-846 for all Appendix IX constituents, unless a shorter list can be justified. If a shorter list is proposed, the justification for same must be presented in the workplan.

- (5) A preliminary soils and ground-water report to be submitted as part of the workplan. This preliminary report shall contain, at a minimum, the following information regarding the soils and ground-water investigation:
 - (a) a site map having a one inch equals 50 feet scale, which depicts the locations of 1) all solid waste management units being investigated, 2) existing and proposed borings and monitor wells and 3) lines of proposed geologic cross-sections;
 - (b) plans and schedule for submitting the hydrogeologic information; and
 - (c) well construction diagram.
- (6) Four copies of Final Soils and Ground-water Report shall be submitted with the Facility Investigation report required by Provision VIII.D. which contains at a minimum the following information:
 - (a) contours of the ground-water surface based on measurements in piezometers and monitor wells, and apparent direction of ground-water flow;
 - (b) geologic cross-sections depicting the near-surface stratigraphy;
 - (c) logs of all soil borings and monitor wells; and
 - (d) results of analyses for soil and ground water.
3. The permittee may elect to certify that no wastes with Appendix IX constituents have been managed in an RFI unit or units in lieu of performing the investigation procedures noted in Provision VIII.A.2. provided that confirming data are submitted.

Cross Reference ChartNR Waste Management ActivityOperating Unit

1. 29, 700-gallon-capacity storage area Original Tract (OT)

RFI Units

2. Building 1060 - Waste Accumulation Area	· OT
3. Fire Training Area No. 1	· A-102
4. Fire Training Area No. 2	· A-104
5. Waste Fuel Storage Tank	· A-102
6. Waste Oil Tank	· A-102
7. Landfill No. 4	· E-501
8. Landfill No. 5	· A-102
9. Waste Burial Area	· A-102
10. Landfill No. 1	· OT
11. Building 1410 - Waste Accumulation Area	OT
12. Oil/Water Separation System	OT
13. Building 1191 - Waste Accumulation Area	OT
14. Storm Water Drainage System	· A-101
15. Building 1320 - Power Production Maintenance- Facility Waste Accumulation Area	OT · E-508
16. Landfill No. 6	· E-508
17. Entomology Dry Well	· OT
18. French Underdrain System	· E-530 and E-531
19. Weapons Storage Area Disposal Site	· G-700
20. Building 1340 - Oil/Water Separator	· E-537
21. POL Tank Farm	· OT

CARSWELL AIR FORCE BASE
FORT WORTH, TEXASATTACHMENT B
SHEET 5 OF 11

TRACT NO. A-104

ACREAGE: 56.2

A Tract of land situated in the County of Tarrant, State of Texas, being part of the J. M. Shreeve Survey (A-1456) and part of the John Collett Survey (A-262) and being more particularly described as follows:

From the intersection of the south right-of-way line for White Settlement Road with the west boundary line of said J. M. Shreeve Survey, east 1205 feet to the point of beginning, said point being the northwest corner of the W. Coulsting property in said south right-of-way line for White Settlement Road; thence along said south right-of-way line for White Settlement Road, south 89 deg. 35' east, 1128.5 feet to a point; thence south 00 deg. 10' east, 2170.3 feet to a point in the south boundary line of said W. Coulsting property; thence along the common line between the W. Coulsting and the Texas Electric Service Co. properties north 89 deg. 25' west, 1128.5 feet to the southwest corner of said W. Coulsting property; thence along the common line between the W. Coulsting and the R. L. Carlock, Jr., et al, properties north 00 deg. 10' west, 2168.3 feet to the point of beginning, containing 56.2 acres, more or less,

and being part of the same land conveyed to W. Coulsting by Mrs Mary E. Farmer by deed dated 15 October 1921 and recorded in Vol 723 at Page 354 of the Deed Records of said Tarrant County.

CARSWELL AIR FORCE BASE
FORT WORTH, TARRANT COUNTY, TEXAS

ATTACHMENT B
SHEET 9 OF 11

TRACT NO. F-531

ACREAGE: 12.20

A tract of land situated in the County of Tarrant, State of Texas, being part of the Cornelius Connelly Survey (A-319) and being more particularly described as follows:

From the southeast corner of the J. B. Farmer Survey (A-514) south, 367 feet to the point of beginning, said point being the northernmost northeast corner of the Sidney T. Oates property and being also in the west line of the Grace Cozby property; thence along the common line between said Sidney T. Oates property on the right and the Grace Cozby, the Lois Trigg, and the Eugene Sergi properties on the left south, 1220 feet to a point, same being a reentrant corner of said Oates property and the southwest corner of the said Eugene Sergi property, said point being the southwest corner of Lot No. 13 in the Winding Brook Addition to Westworth Village, Tarrant County, Texas; thence along the common line between said Sidney T. Oates and the Sergi properties east, 228.1 feet to a point, same being the easternmost northeast corner of said Oates property and southeast corner of said Sergi property, and being also the southeast corner of Lot No. 13 of said Winding Brook Addition and located in the west right of way line of Winding Brook Drive; thence along said west right of way line of south, 180 feet to a point, same being the easternmost southeast corner of said Oates property and the northeast corner of Lot No. 6 of said addition; thence along the common line between said Sidney T. Oates and the Evelyn Oates properties west, 226.5 feet, to a point, same being a reentrant corner of said Oates property and the northwest corner of Lot No. 9 of said addition; thence along the common line between said Oates property on the right and the said Evelyn Oates and the County of Tarrant properties on the left south, 199.7 feet to a point, same being the southernmost southeast corner of the Sidney T. Oates property in the south right-of-way line of Oates Drive; thence west, 306.2 feet to a point, same being the southwest corner the Sidney T. Oates property, and the southeast corner of the C. R. Lees property; thence along the common line between said Oates property on the right and the C. R. Lees, the H. C. Thomas, the Homer Priddy, the Mrs Kate M. Hyde, and the Carswell Air Force Base properties on the left north, 1603 feet to a point, same being the northwest corner of said Oates property and being in the existing boundary line of said Air Force Base; thence along the common line between said Oates and Air Force Base properties east, 306.2 feet to the point of beginning and containing 12.20 acres, more or less,

and being substantially the same land conveyed to Sidney T. Oates, et ux by Betty Gordon Rosen by deed dated 1 April 1935 and recorded in Vol. 1246 at Page 43 and being the same land conveyed to Sidney T. Oates, et ux by Betty Gordon Rosen by deed dated 1 September 1934 and recorded in Vol. 1221 at Page 25 and being substantially the same land conveyed to Sidney T. Oates by E. G. Rosen, et al by deed dated 18 May 1939 and recorded in Vol. 1395 at Page 229 and being a part of the same land conveyed to Sidney T. Oates et ux by Lois Trigg, independent executrix of will and estated of Ross Trigg by deed dated 17 March 1952 and recorded in Vol. 2411 at Page 232 of the Deed Records of Tarrant County, Texas.

1 MAY 1990



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

DEC 23 1994

Dear Sir/Madam:

This letter is to inform you that on June 27, 1994, the Texas Natural Resource Conservation Commission (TNRCC) received authorization to implement those provisions covered in the Hazardous and Solid Waste Amendments of 1984 (HSWA) Cluster I and II. Those provisions in your HSWA permit that were marked with an asterisk (*) or (**), are now administered under the authority of the TNRCC. The State will be implementing the provisions that cover the Boiler and Industrial Furnace (BIF) Rules, Subparts AA and BB Air Emission Standards, and Off-Site Contamination. The Land Disposal Restriction (LDR) permit provision will continue to be marked because TNRCC is not authorized for the complete list of LDRs covered by the general permit provision.

All BIF extensions, BIF compliance recertifications, BIF compliance test notifications, and AA and BB Air Emission Standards reports should be sent to the Executive Director of the TNRCC. All outstanding issues should be addressed to the TNRCC for resolution.

If you have any questions regarding this matter, please contact Mr. Bill Gallagher of my staff at (214) 665-6785. Thank you for your cooperation.

Sincerely yours,

for Allyn M. Davis, Director
Hazardous Waste Management Division

cc: Mr. Barry Williams
Texas Natural Resource Conservation Commission



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 ROSS AVENUE SUITE 1200

DALLAS TEXAS 75202-2733

March 29, 1991

CERTIFIED MAIL: RETURN RECEIPT REQUESTED

Colonel Charles A. Jackson
 U.S. Air Force / Carswell Air Force Base
 CSG / CC Carswell AFB
 Fort Worth, Texas 76127-5000

RE: Transmittal of Hazardous Waste Permit for
 US Air Force / Carswell Air Force Base TX0571924042

Dear Colonel Jackson:

Enclosed is a copy of your permit to operate a hazardous waste facility, pursuant to the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA). The Texas Water Commission (TWC) has been delegated only partial authority for HSWA. Therefore, in order for the permit to be considered a full RCRA permit, it must be issued under the State program authority as well as the Federal authority for the additional HSWA requirements.

EPA has revised the permit issued on February 7, 1991, by TWC. An asterisk (*) is placed on Provisions V.I, V.M, and V.N, denoting Federal HSWA authority.

Procedures for requesting the EPA Administrator to review permit decisions are detailed at 40 CFR Part 124.19. If you petition the Administrator for such a review, please send a copy of your petition to this office.

If you have any questions, please contact David Neleigh of my staff at (214) 655-6785.

Sincerely yours,

Allyn M. Davis

Allyn M. Davis
 Director
 Hazardous Waste Management Division

Enclosure

cc: Allen Beinke
 Texas Water Commission

TEXAS WATER COMMISSION



B. J. Wynne, III, Chairman
 John E. Birdwell, Commissioner
 Cliff Johnson, Commissioner

John J. Vay, General Counsel
 Michael E. Field, Chief Hearings Examiner
 Brenda W. Foster, Chief Clerk

February 13, 1991

Allen Beinke, Executive Director

Dear Permittee: RE: U.S. DEPT OF AIR FORCE - CARSWELL, AFB; Permit HW50289

Enclosed is a copy of:

() 1. Permit for a wastewater treatment facility issued pursuant to Chapter 26 of the Texas Water Code. In order that you may comply with monitoring requirements of your permit, self-reporting forms and instructions will be forwarded to you from the Water Quality Division at an early date. If your facility is not yet operating, please use the attached Notification of Completion of Facilities form to advise this agency and our district office of the completion or placement in operation of proposed facilities in accordance with the special provision incorporated into the permit.

() 2. Amended permit for a wastewater treatment facility issued pursuant to Chapter 26 of the Texas Water Code. Please continue using the self-reporting forms you have on hand until new forms are forwarded by the Water Quality Division. If your facility is not yet operating, please use the attached Notification of Completion of Facilities form to advise this agency and our district office of the completion or placement in operation of proposed facilities in accordance with the special provision incorporated into the permit.

() 3. Renewal of a permit for a wastewater treatment facility issued pursuant to Chapter 26 of the Texas Water Code. If your facility is not yet operating, please use the attached Notification of Completion of Facilities form to advise this agency and our district office of the completion or placement in operation of proposed facilities in accordance with the special provision incorporated into the permit.

(✓) 4. Permit for a hazardous or solid waste facility issued pursuant to Art. 4477-7, Texas Revised Civil Statutes. Your attention is directed to Commission Rule 335.5 which may be applicable to your facility.

() 5. Permit or amended permit for a waste disposal well or an injection well issued pursuant to Chapter 27 of the Texas Water Code. In accordance with the Texas Water Code, you must file a copy of the permit with the city and county health authorities.

If there are any questions concerning this permit, please let us know.

Gloria A. Vasquez

Gloria A. Vasquez, Chief Clerk

cc w/enclosures:

All Parties

TWC District Office 4

15 FEB 1991

PERMIT NO. HW-50289
 TEXAS SWR NO. 65004
 EPA PERMIT NO. TX 0571924042



TEXAS WATER COMMISSION
Stephen F. Austin State Office Building
Austin, Texas

**PERMIT FOR MUNICIPAL
 HAZARDOUS WASTE MANAGEMENT SITE**
 Issued under provisions of TEX.
 HEALTH & SAFETY CODE ANN.
 Chapter 361 (Vernon)

Name of Permittee: U.S. Air Force/Carswell Air Force Base
 7CSG/CC Carswell AFB
 Fort Worth, Texas 76127-5000

Site Owner: United States Department of the Air Force
 7CSG/CC Carswell AFB
 Fort Worth, Texas 76127-5000

Classification of Site: Class I Hazardous Waste Storage,
 Off-site, Non-commercial

The permittee is authorized to store and process wastes in accordance with the limitations, requirements, and other conditions set forth herein. This permit is granted subject to Texas Water Commission (TWC) rules, other Orders of the TWC, and laws of the State of Texas. Nothing in this permit exempts the permittee from compliance with the applicable rules and regulations of the Texas Air Control Board (TACB).

This permit will be valid until cancelled, amended, or revoked by the Commission, except that the authorization to store and process wastes shall expire midnight, 10 years after the date of permit approval.

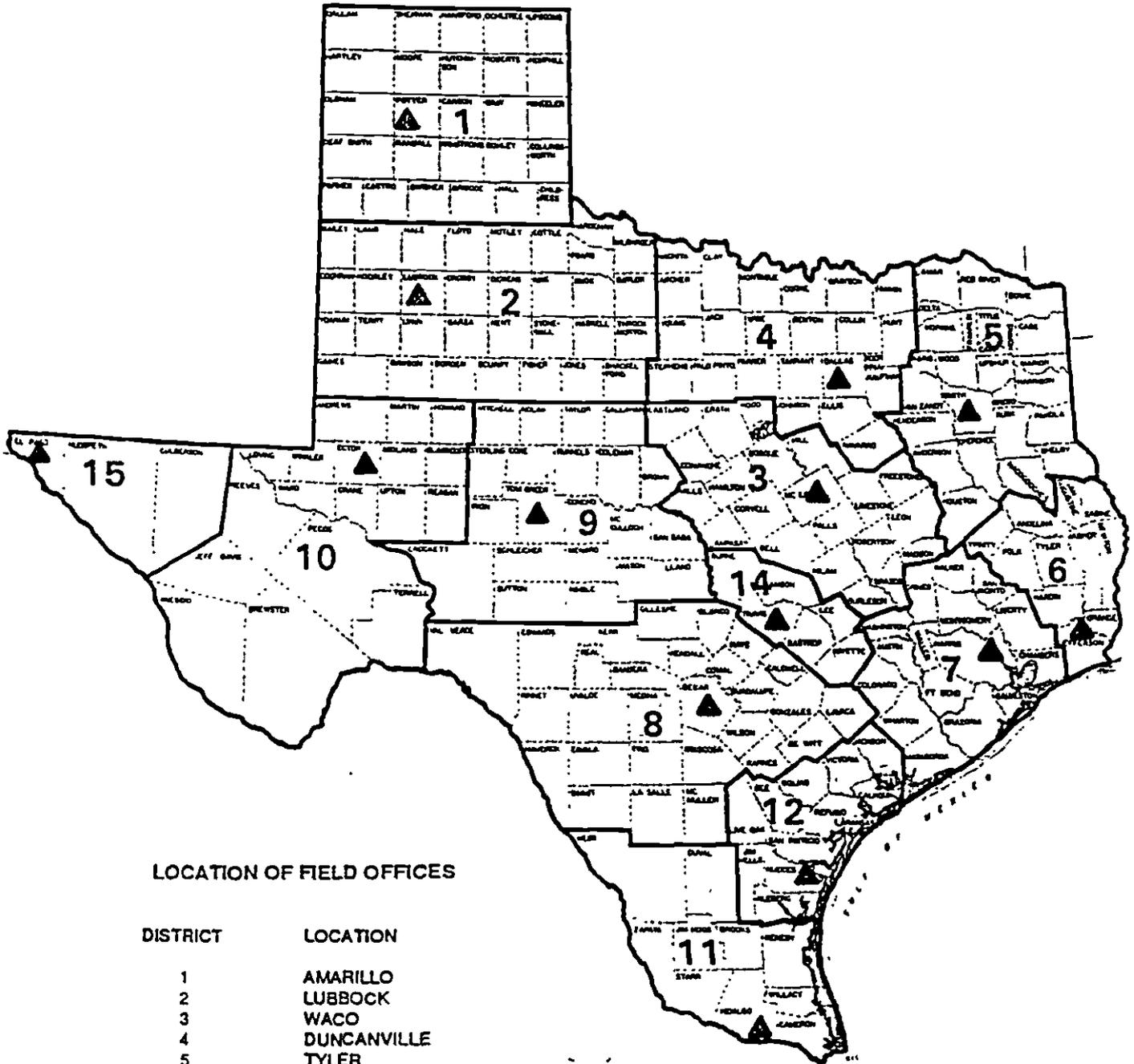
All provisions in this permit stem from both State and Federal authority. The provisions marked with an asterisk (*) stem from Federal authority and will implement the applicable requirements of HSWA not presently authorized to the State of Texas.

APPROVED, ISSUED, AND EFFECTIVE this 7th day of February, 1991

ATTEST:

Mauri A. Varguez

[Signature]
 For the Commission



LOCATION OF FIELD OFFICES

DISTRICT	LOCATION
1	AMARILLO
2	LUBBOCK
3	WACO
4	DUNCANVILLE
5	TYLER
6	BEAUMONT
7	HOUSTON
8	SAN ANTONIO
9	SAN ANGELO
10	ODESSA
11	WESLACO
12	CORPUS CHRISTI
14	AUSTIN
15	EL PASO
TWC LAB	HOUSTON

**TEXAS WATER COMMISSION
FIELD OPERATIONS DIVISION
AREA OFFICES**

DISTRICT 1

3918 Canyon Drive
Amarillo, Texas 79109-4996
806/353-9251 (TEX-AN 8-862-0071)
Don Manning, District Manager

DISTRICT 2

3411 Knoxville, Suite 101
Lubbock, Texas 79413-2249
806/796-7092 (TEX-AN 8-840-1067)
Larry L. Smith, District Manager

DISTRICT 3

14000 Woodway Drive
Waco, Texas 76712-3193
817/751-0335 (TEX-AN 8-820-1465)
William F. Bowles, District Manager

DISTRICT 4

1019 N. Duncanville Rd.
Duncanville, Texas 75116-2201
214/298-6171 (TEX-AN 8-831-5650)
Charles D. Gill, District Manager

DISTRICT 5

2916 Teague Drive
Tyler, Texas 75701-3734
214/595-5466 (TEX-AN 8-831-5256)
John Witherspoon, District Manager

DISTRICT 6

4820 Ward Drive
Beaumont, Texas 77705-0328
409/842-9413 (TEX-AN 8-850-1383)
Keith Anderson, District Manager

DISTRICT 7

5144 East Sam Houston Parkway North
Houston, Texas 77015
713/457-5191 (TEX-AN 8-730-0200 or 0300)
Gerald Hord, District Manager

TWC LABORATORY

5144 East Sam Houston Parkway North
Houston, Texas 77015
713/457-5229 (TEX-AN 8-730-0200 or 0300)
Jim Busceme, Lab Manager

DISTRICT 8

140 Heimer Road, Suite 360
San Antonio, Texas 78232-5028
512/490-3096 (TEX-AN 8-820-1308
and 820-1314)
Billy Boggs, District Manager

DISTRICT 9

102 Canyon Road
San Angelo, Texas 76904
915/655-9479 or 655-1336
Kenneth W. Krueger, District Manager

DISTRICT 10

2626 J.B. Shepperd Parkway Blvd.
Bldg. B-129
Odessa, Texas 79761
915/362-6997 (TEX-AN 8-840-1432)
William F. Lockey, District Manager

DISTRICT 11

813 E. Pike Blvd.
Weslaco, Texas 78596-4935
512/968-3165 (TEX-AN 8-820-1826)
John Sturgis, District Manager

DISTRICT 12

4410 Dillon Lane, Suite 47
Corpus Christi, Texas 78415-5326
512/851-8484 (TEX-AN 8-820-1682)
Chip Volz, District Manager

DISTRICT 14

1700 South Lamar, Bldg. 1, No. 101
Austin, Texas 78704-3360
512/463-7803 (TEX-AN 8-255-7803)
W. John Young, District Manager

DISTRICT 15

7500 Viscount Blvd., Suite 147
El Paso, Texas 79925
915/778-9634 (TEX-AN 8-846-8183)
Hector Villa, District Manager

PERMIT NO. HW-50289
EPA I.D. No. 0571924042

CONTINUATION SHEET 2 OF 20

NAME: U.S. Air Force/Carswell Air Force Base

I. Size and Location of Facility

- A. Carswell Air Force Base occupies 2751 acres of land in urban Tarrant County, Texas. The Base is positioned along the south shore of Lake Worth and is bordered by the following entities: Fort Worth and Westworth on the east; Fort Worth and White Settlement on the south; White Settlement on the southwest; and Fort Worth and Air Force Plant 4 on the northwest. the location is further described as being in Segment 0806 of the Trinity River Basin (North Latitude 32°45'53", West Longitude 97°25'44").
- B. The site plan and accompanying field notes describing the waste management sites which were submitted in the application for Permit No. HW-50289 are hereby made part of this permit as "Attachments A and B", respectively.

II. Units and Operations Authorized

A. Wastes Authorized:

1. The permittee is authorized to manage hazardous industrial solid waste listed in the application and described herein, subject to the limitations provided herein. Authorized wastes may be received from off-site federal facilities.
2. Hazardous wastes authorized to be managed under this permit are limited as follows:
 - a. Hazard Code Groups (as prescribed by the U.S. Environmental Protection Agency regulations in effect upon the date of permit approval):

<u> x </u> Ignitable Waste (I)	<u> x </u> Acute Hazardous Waste (H)
<u> x </u> Toxic Waste (T)	<u> x </u> Toxicity Characteristic (TC)
<u> x </u> Corrosive Waste (C)	<u> x </u> Reactive Waste (R)

b. <u>Waste Descriptions</u>	<u>TWC Waste Class</u>	<u>Hazard Code</u>
(1) Acetic Acid	IH	C
(2) Acetone	IH	I
(3) Alcohol, Denatured	IH	I
(4) Amyl Alcohol	IH	I
(5) Aniline	IH	T
(6) Aqueous Liquids w/pH < 2	IH	C
(7) Aqueous Liquids w/pH > 12.5	IH	C
(8) Arsenic Acid	IH	C,H
(9) Battery Electrolyte	IH	C

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[II.A.2.b.]

b.	<u>Waste Descriptions</u>	<u>TWC Waste Class</u>	<u>Hazard Code</u>
(10)	Batteries, dry cell	IH	TC, C, R
(11)	Batteries, Metal/electrolyte	IH	TC, C, R
(12)	Benzene	IH	T
(13)	Benzene, Hydroxy/Phenol	IH	T
(14)	Boric Acid	IH	C
(15)	Buthyl Alcohol	IH	I
(16)	Cadmium-bearing waste	IH	T
(17)	Carbon Disulphide	IH	T
(18)	Carbon Tetrachloride	IH	T
(19)	Chlorine	IH	R, T
(20)	Chloroform	IH	T
(21)	Chromium-bearing waste	IH	T
(22)	Corrosion Inhibitor	IH	T
(23)	Corrosive Liquid	IH	C
(24)	Cyclohexanone	IH	I
(25)	DDT	IH	T
(26)	Dichloride Ethylene	IH	I
(27)	Dichlorodifluoromethane	IH	T
(28)	Dichlorofluoromethane	IH	T
(29)	DS-2 Decontamination Agent	IH	R, C
(30)	Ethoxyethanol	IH	I
(31)	Ethyl Acetate	IH	T
(32)	Ethyl Alcohol	IH	I
(33)	Ethyl Benzene	IH	I, T
(34)	Ethyl Ether	IH	T
(35)	Formaldehyde	IH	T
(36)	Formic Acid	IH	T
(37)	Halogenated Solvent	IH	I
(38)	Heptane	IH	I
(39)	Hexachlorobenzene	IH	T
(40)	Hexahydrobenzene	IH	T
(41)	Hexane	IH	I
(42)	Hexanol	IH	I
(43)	Hydrazine or Diamine	IH	T, R
(44)	Hydrochloric Acid	IH	C
(45)	Ignitable Liquid and Solid Waste	IH	I
(46)	Isopentyl Alcohol	IH	I
(47)	Isopropyl Alcohol	IH	I
(48)	Iso-Butanol	IH	I
(49)	Lead-Bearing Waste	IH	T
(50)	Lithium Batteries	IH	R
(51)	Mercury-contaminated waste	IH	T, TC
(52)	Mercury Batteries	IH	TC
(53)	Methanol	IH	T, I
(54)	Methyl Ethyl Ketone	IH	T, I
(55)	Methyl Isobutyl Ketone	IH	T, I
(56)	Methylene Chloride	IH	T, I

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[II.A.2.b.]

<u>Waste Descriptions</u>	<u>TWC Waste Class</u>	<u>Hazard Code</u>
(59) Nickel-Cadmium Batteries	IH	TC
(60) Nitric Acid	IH	C
(61) 2-Nitropropane	IH	I,T
(62) Non-halogenated Solvents	IH	T
(63) Oil, Metal-Contaminated	IH	TC
(64) Oxalic Acid Powder	IH	C
(65) Paint Filters	IH	I,T
(66) Paint-related Material	IH	I
(67) Paint Thinner	IH	I,T
(68) PD-680	IH	I,T
(69) Pentane	IH	I
(70) Pesticides	IH	C,T
(71) Petroleum-derived Fuel-Waste	IH	I,TC
(72) Phosphoric Acid	IH	C
(73) Photographic Chemicals	IH	T
(74) Potassium Cyanide	IH	R,H
(75) Pyridine	IH	T
(76) Reactive Waste	IH	R
(77) Rifle Bore Cleaner	IH	I
(78) Silver Nitrate	IH	TC
(79) Sodium Hydroxide	IH	C
(80) Sodium Nitrite	IH	R
(81) Stoddard Solvent	IH	I
(82) Sulfuric Acid	IH	C
(83) Tetrachloroethane	IH	T,C
(84) Tetrachloroethylene	IH	T
(85) Tetrachloromethane	IH	T
(86) Toluene	IH	T,I
(87) Trichloroethane-1,1,1	IH	T
(88) Trichloroethylene	IH	T
(89) Trichlorofluoromethane	IH	T
(90) Trichloromethane	IH	T
(91) Trichlorotrifluoroethane	IH	T
(92) Turpentine	IH	I
(93) Vinyl Chloride	IH	I
(94) Xylene	IH	I

B. Unit Authorized:

The permittee is authorized to operate the following unit for storage subject to the limitations contained herein. All waste management activities subject to permitting are to be confined to the following unit:

1. Container Storage Area, enclosed, capacity 29,700 gallons (NOR 02), identified as conforming storage unit in the application, for storage of the wastes described in Provision II.A.2.b.(1)-(94).

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[II.]

- C. The unit and operational methods authorized are limited to those described both herein and by the application and related plans and specifications which were included in the permit application submittals dated September 6, 1989, May 2, 1990, and August 21, 1990. Prior to constructing or operating any unit in a manner which differs from either the related plans and specifications or the limitations of this permit, the permittee is required to
1. Notify the TWC and submit plans and specifications for the proposed modification; and
 2. Receive written authorization of the Executive Director for such modification, if the Executive Director determines that a permit amendment or modification is not required by TWC rules.
- D. Authorization to begin operation of new units is contingent upon compliance with Provision II.E. and V.C.
- E. Any proposed unit modifications, addition of units, or expansion in capacity which has not been addressed by the terms of this permit must be authorized in accordance with TWC permit amendment or modification rules.

III. Unit Design, Construction, and Operation

- A. General Design, Construction, and Certification Requirements:
1. Unit design, construction, and operation must comply with this permit, TWC Rules, and be in accordance with the plans and specifications for design, construction and operation approved herein. All plans submitted with the application dated September 6, 1989, May 2, 1990, and August 21, 1990 are approved, subject to the terms of this permit and any other orders of the TWC which are hereby incorporated by reference and made a part of this permit.
 2. The facility shall be designed, constructed, operated, and maintained to prevent washout of any hazardous waste. At a minimum, all storm-water control structures shall be designed and constructed to prevent washout of any hazardous waste by a 100-year flood.
 3. The authorized unit shall be clearly identified as numbered in Provision II.E. At a minimum, unit identification signs must be conspicuously posted on the approaches to the permitted units indicating "TWC PERMIT UNIT NO. (from Provision II.E.)," (for example, the conforming storage unit shall be labelled "TWC PERMIT UNIT NO. 1").

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[III.]

B. General Operational Requirements:

1. The permittee shall comply with the requirements of Title 40, Code of Federal Regulations (40 CFR) §264.17.
2. The permittee shall within 24 hours remove any spilled hazardous waste and waste residues and shall take steps necessary to prevent surface-water contamination as a result of spills.
3. The permittee shall manage all wastes within the facility unit in a manner in which particulate emissions of waste to the air meet TACB and TWC requirements.
4. All contaminated water as identified by Provisions III.B.5., IV.B.2., and IV.B.3. shall be disposed of by the following method(s):
 - a. Removal to an on-site, authorized industrial solid waste unit;
 - b. Removal off-site to an authorized industrial solid waste management facility; and/or
 - c. Removal to an authorized wastewater treatment system.
5. The permittee shall ensure that any equipment which has come in contact with hazardous waste has been decontaminated prior to exiting the unit. At a minimum, all contaminated equipment shall be washed sufficiently to remove waste residues. All wash water generated shall be collected and disposed of in accordance with Provision III.B.4.
6. The annual site activity report required by Provision V.F. shall be submitted to the TWC Central Office and the TWC District 4 Office by January 25 of each year for the preceding year's activities. This annual report shall include, at a minimum, the following information:
 - a. All information and records required by 31 Texas Administrative Code (TAC) §335.154; and
 - b. Volume of all wastes stored at the facility unit authorized in Provision II.B.; and
 - c. A description of waste processing capabilities and capacities corresponding to each type of waste managed on-site.

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[III.]

B. General Operational Requirements:

1. The permittee shall comply with the requirements of Title 40, Code of Federal Regulations (40 CFR) §264.17.
2. The permittee shall within 24 hours remove any spilled hazardous waste and waste residues and shall take steps necessary to prevent surface-water contamination as a result of spills.
3. The permittee shall manage all wastes within the facility unit in a manner in which particulate emissions of waste to the air meet TACB and TWC requirements.
4. All contaminated water as identified by Provisions III.B.5., IV.B.2. and IV.B.3. shall be disposed of by the following method(s):
 - a. Removal to an on-site, authorized industrial solid waste unit;
 - b. Removal off-site to an authorized industrial solid waste management facility; and/or
 - c. Removal to an authorized wastewater treatment system.
5. The permittee shall ensure that any equipment which has come in contact with hazardous waste has been decontaminated prior to exiting the unit. At a minimum, all contaminated equipment shall be washed sufficiently to remove waste residues. All wash water generated shall be collected and disposed of in accordance with Provision III.B.4.
6. The annual site activity report required by Provision V.F. shall be submitted to the TWC Central Office and the TWC District 4 Office by January 25 of each year for the preceding year's activities. This annual report shall include, at a minimum, the following information:
 - a. All information and records required by 31 Texas Administrative Code (TAC) §335.154; and
 - b. Volume of all wastes stored at the facility unit authorized in Provision II.B.; and
 - c. A description of waste processing capabilities and capacities corresponding to each type of waste managed on-site.

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[III.B.]

7. The permittee shall ensure that all waste analyses utilized for waste identification or verification have been performed in accordance with methods specified in the current editions of "Test Methods for Chemical Analysis of Water and Wastes" or "Test Methods for the Evaluation of Solid Waste" (SW-846) or other methods which are officially approved by the United States Environmental Protection Agency (U.S.E.P.A.). The permittee shall utilize only laboratories which follow a quality control/quality assurance program conforming to the program specified in "Test Methods for the Evaluation of Solid Waste" (SW-846).
8. The permittee shall comply with inspection requirements of 40 CFR §264.15.
9. The permittee shall comply with the training requirements of 40 CFR §264.16.
10. All tanks, sumps, pumps, fire and spill control equipment, decontamination equipment, and all other equipment and structures authorized or required by this permit shall be maintained in good functional condition.
11. The permittee shall comply with the security requirements of 40 CFR §264.14.

C. Container Storage Area Design, Construction, and Operation Requirements:

The permittee shall comply with the following minimum requirements for the container storage areas authorized by Provision II.B.

1. The container storage areas shall be constructed and operated to comply with 40 CFR §§264.170-264.178.
2. In addition, within 30 days of permit issuance by the TWC, the permittee shall comply with the following minimum requirements for the container storage area authorized by Provision II.B.:
 - a. The permittee shall provide a minimum of 30" aisle spacing between double rows of drums;
 - b. Drums of 55 gallons or more capacity shall not be stacked more than three high;
 - c. Pallets shall be used between layers of stacked drums; and
 - d. Drums of incompatible wastes shall be separated by an impermeable barrier.

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[III.]

- D. The entire waste management facility shall be designed, constructed, operated, and maintained to prevent inundation of and discharges from the areas surrounding the facility components authorized by Provision II.B., subject to the following requirements:
1. Each receipt, storage, and processing area, including unloading areas, shall be provided with a drainage control system which will collect spills and incident precipitation in such a manner as to
 - a. Preclude the release from the system of any collected spills, leaks, or precipitation, except as provided in Provision III.D.2. This requirement shall be met by, at a minimum, providing a base and sides which are free of cracks or gaps and are sufficiently impervious to contain leaks, spills, or precipitation until the collected material is removed, and providing curbs or sides designed to withstand a full hydrostatic head;
 - b. Minimize the amount of rainfall that is collected by the system;
 - c. Prevent run-on into the system from non-storage and processing areas; and
 - d. Have sufficient capacity to contain the volume of the largest tank or 10% of the total tank and/or container capacity, whichever is greater, plus (for unenclosed areas) the volume of rainwater which would be collected by the 25-year, 24-hour rainfall event (7.5 in.).
 2. Collected spills, leaks, clean-up residues, and contaminated rainfall runoff including stormwater from all waste management containment areas shall be removed promptly after the spillage and/or rainfall event in as timely a manner as is necessary to prevent overflow of the collection system, by the following method(s):
 - a. Removal to an on-site authorized industrial solid waste unit;
 - b. Removal off-site to an authorized industrial solid waste management facility; and/or
 - c. Removal to an authorized wastewater treatment system.

IV. Closure

A. General Closure Requirements:

1. Facility closure shall commence whenever any of the following conditions exist:

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[IV.A.1.]

- a. Upon direction of the TWC or the Executive Director for violation of the permit, TWC Rules, or State Statutes;
 - b. Upon suspension, cancellation, or revocation of the terms and conditions of this permit concerning the authorization to store, process, or dispose of waste materials;
 - c. Upon abandonment of the site;
 - d. When necessary to comply with Provision VII.C.
2. The permittee shall submit a written request for a permit amendment or modification to authorize a change in operating plans, unit design, or the approved closure plan in accordance with the time frames of Provisions IV.A.3.a.-d. The written request shall include a copy of the amended closure plan for approval by the Executive Director. The permittee shall submit a written request for a permit amendment or modification to authorize a change in the approved closure plan whenever any of the following conditions exist:
- a. Changes in operating plans or facility design affect the approved closure plan;
 - b. There is a change in the expected year of final closure, if applicable;
 - c. In conducting partial or final closure activities, unexpected events require amendment of the approved closure plan;
 - d. Requested by the Executive Director under the conditions described in Provisions IV.A.2.a.-c.
3. The permittee shall submit a written request for a permit amendment or modification according to the following schedule:
- a. At least 60 days prior to the proposed change in unit design or operation which will affect the approved closure plan;
 - b. No later than 60 days after an unexpected event has occurred which has affected the closure plan;
 - c. No later than 30 days after an unexpected event has occurred, if the unexpected event occurs during the partial or final closure period; or
 - d. Within 60 days of the Executive Director's request pursuant to Provision IV.A.4.d., or within 30 days if the change in facility conditions occurs during partial or final closure.

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[IV.A.]

4. The permittee shall notify the Executive Director in writing at least 45 days prior to the date on which final closure of the facility is expected to begin. A copy of the notice shall be submitted to the TWC District 4 Office.
5. Within 60 days of the completion of final closure, the permittee shall submit to the Executive Director by registered mail, with a copy to the TWC District 4 Office, a certification that the hazardous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved closure plan and the terms of this permit. The certification shall be signed by the permittee and by an independent registered professional engineer. Additional documentation supporting the independent registered professional engineer's certification shall be furnished to the Executive Director upon request.

B. Hazardous Waste Management Unit Area Closure Requirements:

1. All tanks, pumps, piping, and any other equipment or structures which have come in contact with waste shall either be decontaminated by removing all waste or disposed of at an authorized facility.
2. All wash water generated during decontamination activities shall be collected and disposed of in accordance with Provision III.B.4.
3. All hard-surfaced areas within the hazardous waste management unit areas shall be decontaminated and the wash water generated shall be collected and disposed of in accordance with Provision III.B.4.
4. Verification of decontamination shall be performed by analyzing wash water for the waste constituents which have been in contact with the particular item being decontaminated.

V. Standard Permit Conditions

The permittee has a duty to comply with the Standard Permit Conditions under 31 TAC §305.125. Moreover, the permittee has a duty to comply with the following permit conditions:

- A. In order to continue a permitted activity after the expiration date of the permit the permittee shall submit a new permit application at least 180 days before the expiration date of the effective permit, unless permission for a later date has been granted by the Executive Director. Authorization to continue such activity will terminate upon the effective denial of said application.

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[V.]

- B. The permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency order issued by the TWC.
- C. For a new facility or unit requiring permitting, the permittee shall not commence storage, processing or disposal of solid waste; and for a permitted facility or unit being modified, the permittee shall not process, store or dispose of solid waste in the modified portion of the facility or unit, until the following requirements have been satisfied:
1. The permittee has notified the local TWC District Office and submitted to the Executive Director by certified mail or hand delivery a letter signed by the permittee and a Texas registered professional engineer certifying that the facility or unit has been constructed or modified in compliance with the permit. Required certification shall be in the following form:
This is to certify that the construction of the following facility unit(s) authorized or required by TWC Permit No. HW-50289 has been completed, and that construction of said facility unit(s) has been performed in accordance with and in compliance with the design and construction specifications of Permit No. HW-50289. (Description of facility units and components with reference to applicable permit provisions).
 - a. The permittee must also submit notification and documentation materials as described in Permit Provision C.1. to the Director of Hazardous Waste Division, U.S.E.P.A., Region VI Office.
 2. The Executive Director has inspected the modified or newly constructed facility or unit and finds it is in compliance with the conditions of the permit; or within 15 days of submitting the letter required by Provision V.C.1., the permittee has not received notice from the Executive Director of an intent to inspect, prior inspection is waived and the permittee may commence processing, storage or disposal of solid waste.
- D. The following details shall be included as information which must be reported orally within 24 hours pursuant to 31 TAC §305.125(9):
1. Information concerning release of any solid waste that may cause an endangerment to public drinking water supplies.
 2. Any information of a release or discharge of solid waste, or of a fire or explosion from a facility unit, which could threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include

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[V.D.2.]

- a. name, address, and telephone number of the owner or operator;
 - b. name, address, and telephone number of the facility;
 - c. date, time, and type of incident;
 - d. name and quantity of material(s) involved;
 - e. the extent of injuries, if any;
 - f. an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
 - g. estimated quantity and disposition of recovered material that resulted from the incident.
- E. The Executive Director may waive the five-day written notice requirement as specified in 31 TAC §305.125(9) in favor of a written report submitted to the TWC within 15 days of the time the permittee becomes aware of the noncompliance or condition.
- F. An annual report must be submitted covering facility activities during the previous calendar year.
- G. Emissions from this facility must not cause or contribute to a condition of "air pollution" as defined in §382.003 of the Texas Clean Air Act or violate §382.085 of the Texas Clean Air Act. If the Executive Director of the TACB determines that such a condition or violation occurs, the permittee shall implement additional abatement measures as necessary to control or prevent the condition or violation.
- H. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
- I. The permittee shall notify the TWC in writing within 10 days of the discovery of any release of hazardous waste or hazardous constituents that may have occurred from any solid waste management unit at the facility regardless of when the release occurred or may have occurred and regardless of when waste was placed in any unit. Release of hazardous waste or hazardous waste constituents from any solid waste management unit regardless of when waste was placed in that unit or when the release occurred, will constitute grounds for (1) a major permit amendment or modification pursuant to the Texas Solid Waste Disposal Act, TEXAS HEALTH AND SAFETY CODE, Chapter 361 (Vernon Supp 1990), as necessary to incorporate into the permit appropriate corrective action; (2) the adoption by the TWC of a

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[V.I.]

by the TWC. Pursuant to such permit amendment, modification, ground-water compliance plan, or other order or action, the permittee shall then take timely corrective action for such releases.

The permittee shall notify the Executive Director in writing of any newly identified Solid Waste Management Unit(s) (SWMU) (i.e., a new unit not specifically identified during the RFA, discovered during the course of field investigation, environmental audits, or other means), no later than fifteen (15) calendar days after discovery.

- * If the release appears to have caused off-site contamination, the Director of the Hazardous Waste Division of Region VI of the U.S.E.P.A. must be included in all release activities required by the permit.

J. Waste Minimization

The permittee shall certify annually by October 1 for the previous year ending August 31, that the permittee

1. has a program in place to reduce the volume and toxicity of all hazardous wastes which are generated by the permittee's facility operation to the degree determined to be economically practicable;
2. that the proposed method of treatment, storage, or disposal is that practicable method currently available to the permittee which minimizes the present and future threat to human health and the environment. The waste minimization certification is to be included in the operating records; and
3. has surveyed its plant processes and other sources of hazardous waste and has identified those that are listed on the TWC Annual Waste Summary. Within 210 days of the effective date of this permit, the permittee shall submit to the Executive Director a list of Waste Minimization Projects ("WMPs") that it has determined through its waste minimization review program may be implemented within the next five years.

Annually thereafter, the permittee shall submit to the Executive Director on or before the anniversary date of the permittee's first listing of WMPs, a report setting forth the following information:

- a. The status of each listed WMP as of the date of the report including the quantity of each hazardous waste and the percentage of reduction together with a projection concerning the expected work or resources that may be devoted to each listed WMP during the next twelve months;

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[V.J.3.]

- b. If any WMP has been deleted from the list previously submitted, the reason for such deletion; and
- c. A listing of any new or changed WMP that permittee's review program has developed since the last annual report.

The Executive Director may require the permittee to submit a more detailed status report for a specific WMP if it is unclear to the Executive Director the reasons the permittee has taken a particular action in regard to such WMP.

- K. The permittee shall comply with 40 CFR §266.23(b).
- L. The permittee is required to meet all performance standards in this permit, regardless of whether the permit also contains a specific design or other requirement relating to the performance standard.
- *M. The permittee shall comply with the land disposal restrictions as found in 40 CFR Part 268 (Fed. Reg. November 7, 1986; June 4, 1987; July 8, 1987; August 17, 1988; June 23, 1989 and any subsequent applicable promulgations). Requirements include modifying the permittee's waste analysis plan, as necessary, to include analyses to determine compliance with applicable treatment standards or prohibition levels, pursuant to 40 CFR §§268.7(c) and 264.13(a).

VI. Incorporated Regulatory Requirements

- A. The following TWC regulations are hereby made provisions and conditions of this permit. Issuance of this permit with incorporated rules in no way exempts the permittee from compliance with any other applicable state statute and/or TWC Rule.
 - 1. 31 TAC Chapter 335 Subchapter A:
 - 2. 31 TAC Chapter 335 Subchapter B;
 - 3. 31 TAC §335.152;
 - 4. 31 TAC §§335.153-335.155; and
 - 5. 31 TAC §335.177.
- B. To the extent applicable to the activities authorized by this permit, the following provisions of 40 CFR Part 264, adopted by reference by 31 TAC §335.152, are hereby made provisions and conditions of this permit:

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[VI.B.]

1. Subpart B -- General Facility Standards;
2. Subpart C -- Preparedness and Prevention;
3. Subpart D -- Contingency Plan and Emergency Procedures;
4. Subpart E -- Manifest System, Recordkeeping, and Reporting;
5. Subpart G -- Closure and Post-closure; and
6. Subpart I -- Use and Management of Containers.

VII. Incorporated Application Materials

The permittee shall maintain the following documents at the facility and make them available for inspection by regulatory personnel.

A. Contingency Plan

The permittee shall follow the contingency plan, developed in accordance with 40 CFR Part §264, Subpart D, dated September 6, 1989, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The contingency plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of this permit upon the date of approval by the TWC.

B. Inspection Schedule

The permittee shall follow the inspection schedule, developed in accordance with 40 CFR §264.15, dated September 6, 1989, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The inspection schedule is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the schedule shall become provisions and conditions of this permit upon the date of approval by the TWC.

C. Closure Plan

Facility closure shall be completed in accordance with the requirements of 31 TAC §335.152 and 40 CFR Part 264 Subpart G and the closure plan dated September 6, 1989, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The closure plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of the permit upon the date of approval by the TWC.

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 EPA I.D. No. 0571924042
 NAME: U.S. Air Force/Carswell Air Force Base

CONTINUATION SHEET 16 OF 20

[VII.]

D. Waste Analysis Plan

The permittee shall follow the waste analysis plan developed in accordance with 40 CFR §264.13, dated August 21, 1990, which is hereby approved subject to the terms of this permit and any other orders of the TWC. The waste analysis plan is hereby incorporated into this permit by reference as if set out fully herein. Any and all revisions to the plan shall become provisions and conditions of this permit upon the date of approval by the TWC.

VIII. RCRA Facility Investigation

The permittee shall conduct a RCRA Facility Investigation in order to determine whether hazardous constituents listed in 40 CFR Part 264, Appendix IX have been released into the environment from the following SWMUs:

Carswell# Unit No.	Description
-16	Building <u>1060</u> - Waste Accumulation Area ✓
18	Fire Training Area No. 1
19	Fire Training Area No. 2
20	Waste Fuel Storage Tank
21	Waste Oil Tank
22	Landfill No. 4
23	Landfill No. 5
24	Waste Burial Area
28	Landfill No. 1
-32	Building <u>1410</u> - Waste Accumulation Area ✓
-35	Oil/Water Separation System
-36	Building <u>1191</u> - Waste Accumulation Area ✓
53	Storm Water Drainage System
-61	Building <u>1320</u> - Power Production Maintenance ✓ Facility <u>Waste Accumulation Area</u>
62	Landfill No. 6
63	Entomology Dry Well
64	French Underdrain System
65	Weapons Storage Area Disposal Site
67	Building 1340 - Oil/Water Separator
68	POL Tank Farm

#Unit numbers correspond to the nomenclature used in the RFA document for Carswell AFB.

- A. As a part of the facility investigation, the permittee shall submit three copies of a workplan to the Executive Director of the TWC for approval and/or modification, and one copy to the Executive Director, Hazardous Waste Management Division, U.S.E.P.A. Region VI, within 90 days from the issuance date of this permit by the TWC, which will address in detail the following items:

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EPA I.D. No. 0571924042
NAME: U.S. Air Force/Carswell Air Force Base

CONTINUATION SHEET 17 OF 20

[VIII.A.]

1. A plan view drawing of the facility at a scale of 1 inch equal to not more than 200 feet which clearly shows the following information:
 - a. the locations, surface area and estimated depths of soils contamination associated with all RFI units.
 - b. the locations of all RFI units.
 - c. all structures adjacent or nearby all RFI units such as concrete pads, gullies and roadways; and
 - d. the drawing date, its orientation and scale.

In consideration of the enormity of this facility, the use of match lines on partial maps will be permitted.

2. Procedures for investigating all RFI units which, at a minimum, include the following elements:
 - a. methods of locating areal extent of soil contamination; and
 - b. a hydrogeological evaluation of each unit area which reflects the following scope:
 - (1) Performance of a hydrogeologic assessment of the area to characterize the uppermost aquifer beneath the unit. The applicant must produce a soil boring program which determines the strata encountered, saturated intervals and direction of ground-water flow. The workplan must specify the spacing, depth and locations of boreholes. Samples from borings must be taken continuously from the surface to a depth of 20 feet and then at 5-foot intervals thereafter until ground water is reached. Samples shall be described as to color, soil type according to the Unified Soil Classification System, other visual characteristics such as structure, texture, mineral composition, moisture, etc., and any visual or olfactory evidence of contamination. The workplan should specify that soil borings be conducted with an Organic Vapor Analyzer (OVA) to augment the sense of smell. Sample description shall be performed by a qualified geologist or geotechnical engineer. Samples submitted for chemical analysis must be collected every 5 feet from the surface to the bottom of the borings and be analyzed in accordance with the United States Environmental Protection Agency publication SW-846, Methods for Evaluating Solid Waste (USEPA SW-846) for

PERMIT NO. HW-50289
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CONTINUATION SHEET 18 OF 20

[VIII.A.2.b.(1)]

all Appendix IX constituents, unless a shorter list can be justified. If a shorter list is proposed the justification for same must be presented in the workplan.

- (2) Plans for installation of a ground-water monitoring system, based upon the results of the soil boring program, consisting of a minimum of one background well located hydraulically upgradient of the unit, removed a sufficient distance so as not to be affected by the unit, and at least three wells located on the down-gradient perimeter of the unit. Exploratory boreholes which are developed may be converted to monitor wells if they are appropriately drilled and located. The plan should include procedures for determining the ground-water gradient. More than three downgradient perimeter wells may be required to effectively sample the uppermost aquifer for hazardous constituents and additional background wells are recommended in order to provide an adequate sample population for determining if background values have been exceeded. Procedures for installation of monitor wells which include detailed completion methods shall be submitted in the workplan. The upper 20 feet of the upper flow zone of the uppermost aquifer must be sampled by wells. No monitor well screen length shall exceed 20 feet. Well construction and sampling materials shall be selected to avoid sample analysis interference. Monitor wells shall be logged during installation according to approved procedures which are outlined in the workplan. If existing wells are utilized as part of the ground-water monitoring system, the permittee shall provide sufficient boring data or conduct additional soil borings to provide the information which will characterize the wells.
- (3) Well development methods. Methods of well development shall be described to ensure that any fluids introduced by drilling are removed and samples are not influenced by drilling activities.
- (4) Exact procedures for sampling and analysis of soil and water samples. The workplan shall include provisions for sample collection, sample preservation and shipment, analytical procedures, and chain of custody control. Statistical methods must be submitted that will be used to determine if a statistically significant

PERMIT NO. HW-50289

CONTINUATION SHEET 19 OF 20

EPA I.D. No. 0571924042

NAME: U.S. Air Force/Carswell Air Force Base

[VIII.A.2.b.(4)]

increase over background has occurred for soil and water samples. The plan shall include a schedule for collecting samples from monitor wells during 3 sampling events spaced at 2 month intervals and analyzed in accordance with USEPA SW-846 for all Appendix IX constituents, unless a shorter list can be justified. If a shorter list is proposed, the justification for same must be presented in the workplan.

- (5) A preliminary soils and ground-water report to be submitted as part of the workplan. This preliminary report shall contain, at a minimum, the following information regarding the soils and ground-water investigation:
 - (a) a site map having a one inch equals 50 feet scale, which depicts the locations of 1) all solid waste management units being investigated, 2) existing and proposed borings and monitor wells and 3) lines of proposed geologic cross-sections;
 - (b) plans and schedule for submitting the hydrogeologic information; and
 - (c) well construction diagram.
- (6) Four copies of Final Soils and Ground-water Report shall be submitted with the Facility Investigation report required by Provision VIII.D. which contains at a minimum the following information:
 - (a) contours of the ground-water surface based on measurements in piezometers and monitor wells, and apparent direction of ground-water flow;
 - (b) geologic cross-sections depicting the near-surface stratigraphy;
 - (c) logs of all soil borings and monitor wells; and
 - (d) results of analyses for soil and ground water.
3. The permittee may elect to certify that no wastes with Appendix IX constituents have been managed in an RFI unit or units in lieu of performing the investigation procedures noted in Provision VIII.A.2. provided that confirming data are submitted.

PERMIT NO. HW-50289

CONTINUATION SHEET 20 OF 20

EPA I.D. No. 0571924042

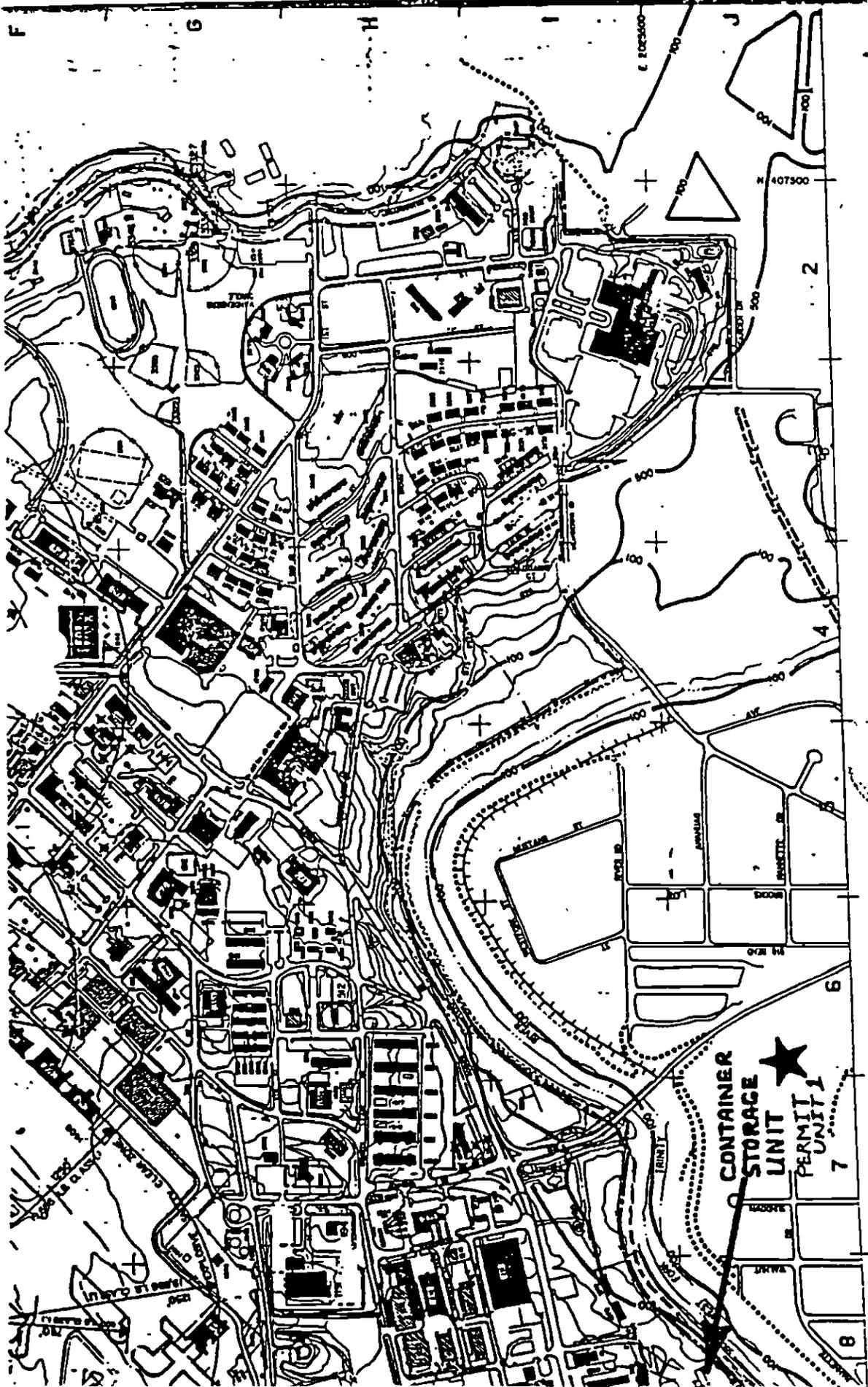
NAME: U.S. Air Force/Carswell Air Force Base

[VIII.A.]

4. A time schedule including significant accomplishments for conducting the RCRA Facility Investigation activities not to exceed twelve months in duration.
 5. A sample plan including sample locations, sampling methods, sampling equipment, sample handling procedures, analytical procedures, detection limits for each procedure, and sample quality assurance and quality control.
 6. A safety plan describing the known hazards and risks identifying levels of protective clothing to be worn, describing decontamination procedures and identifying any special requirement or training needs.
- B. The permittee shall immediately implement the approved work plan upon receipt of written approval from the Executive Director of the TWC.
- C. The permittee shall notify the TWC District 4 Office in Duncanville, Texas at least 10 days prior to any sampling activity in order to afford District personnel the opportunity to observe sampling procedures and split samples.
- D. The permittee shall submit three copies of an RCRA Facility Investigation report to the Executive Director, and one copy to the Director, Hazardous Waste Management Division, U.S.E.P.A. Region VI, within 60 days after the completion of the Facility Investigation. This report shall contain the results of all inspections, observations, evaluations and sampling events conducted as a part of the Facility Investigation along with all maps, drawings and cross-sections.
- E. If it is determined by the TWC that there has been a release to the environment of hazardous constituents listed in 40 CFR Part 264; Appendix IX, the permittee shall apply to the Executive Director of the TWC for an amendment or modification to this permit in order to initiate a further investigation and/or corrective action. If there is evidence of off-site contamination, the permittee shall also apply for a modification to this permit to the Director of the Hazardous Waste Management Division, U.S.E.P.A., Region VI.

Attachments

- A -- Legal Description
B -- Site Plan



DEPARTMENT OF THE AIR FORCE
 STRATEGIC AIR COMMAND
 COMPREHENSIVE PLAN
 BASE LAYOUT
CARSWELL AIR FORCE BASE
 FORT WORTH, TEXAS
 SCALE: 1" = 400 FT. DATE: MAY, 1968
 DRAWN: PLANNING DIVISION
 PROJECT: AIR FORCE BASE
 DALLAS, TEXAS
C-1
 SHEET 1 OF 2

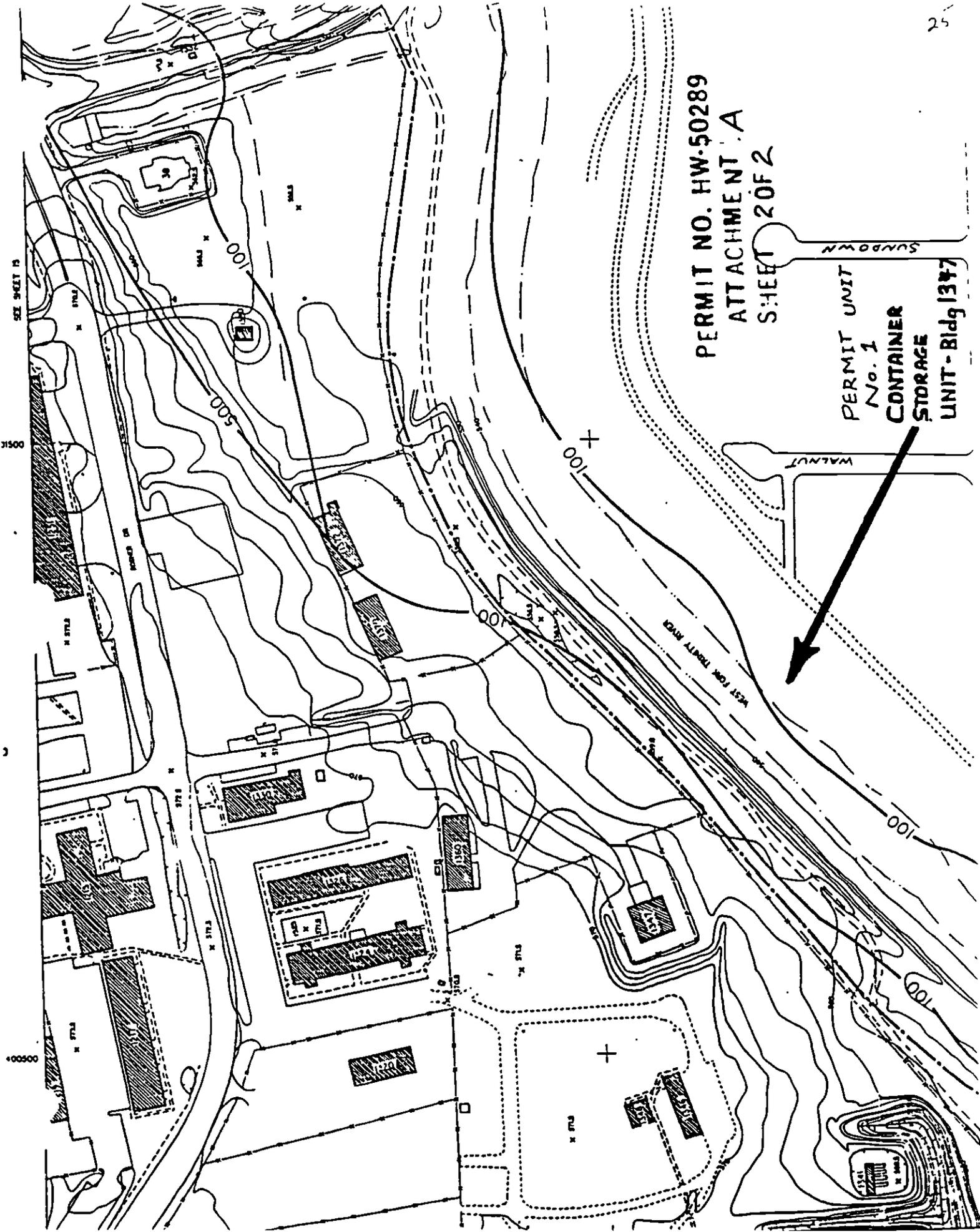


M.G. DEC. T 31 94° E
 YEAR 30 OCT 89
 ANNUAL CHANGE - 5.8" W
 AIRFIELD ELEVATION - 650 FEET



PERMIT NO. HW-50289
 ATTACHMENT A
 SHEET 1 OF 2

STATION	AREA OUTLINE
1	STRAIGHT
2	CURVED
3	CONTOUR
4	PERMITS
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100	PERMITS



PERMIT NO. HW-50289
 ATTACHMENT A
 SHEET 2 OF 2

PERMIT UNIT
 No. 1
 CONTAINER
 STORAGE
 UNIT - Bldg 1347

WALNUT

MAIN LINE FOR TRINITY RIVER

SEE SHEET 13

31500

400500

HW-50289 26
LEGAL DESCRIPTIONPERMIT NO. HW-50289
ATTACHMENT B
SHEET 1 OF 11Cross Reference ChartNR Waste Management Activity
=====Operating Unit1. 29, 700-gallon-capacity storage area Original Tract (OT)RFI Units

<u>2. Building 1060 - Waste Accumulation Area</u>	<u>. OT</u>
<u>3. Fire Training Area No. 1</u>	<u>. A-102</u>
<u>4. Fire Training Area No. 2</u>	<u>. A-104</u>
<u>5. Waste Fuel Storage Tank</u>	<u>. A-102</u>
<u>6. Waste Oil Tank</u>	<u>. A-102</u>
<u>7. Landfill No. 4</u>	<u>. E-501</u>
<u>8. Landfill No. 5</u>	<u>. A-102</u>
<u>9. Waste Burial Area</u>	<u>. A-102</u>
<u>10. Landfill No. 1</u>	<u>. OT</u>
<u>11. Building 1410 - Waste Accumulation Area</u>	<u>OT</u>
<u>12. Oil/Water Separation System</u>	<u>OT</u>
<u>13. Building 1191 - Waste Accumulation Area</u>	<u>OT</u>
<u>14. Storm Water Drainage System</u>	<u>. A-101</u>
<u>15. Building 1320 - Power Production Maintenance- Facility Waste Accumulation Area</u>	<u>OT</u> <u>. E-508</u>
<u>16. Landfill No. 6</u>	<u>. E-508</u>
<u>17. Entomology Dry Well</u>	<u>. OT</u>
<u>18. French Underdrain System</u>	<u>. E-530 and E-531</u>
<u>19. Weapons Storage Area Disposal Site</u>	<u>. G-700</u>
<u>20. Building 1340 - Oil/Water Separator</u>	<u>. E-537</u>
<u>21. POL Tank Farm</u>	<u>. OT</u>

PERMIT NO. HW-50289
 ATTACHMENT B
 SHEET 2 OF 11

CARSWELL AIR FORCE BASE
 FORT WORTH, TARRANT COUNTY, TEXAS

one m
 in

ORIGINAL TRACT

ACREAGE: 9.

Tract I

A tract of land situated about 6 miles N. 80 W. from the Courth in Tarrant County, Texas and embracing portions of the Jos B. Farmer, D. V. Farmer, Cornelius Connelly, B. L. Samuel, Daniel McVean, J. M. Shreeve, and E. S. Terrell Surveys.

Beginning at a stake in the most southerly south line of the S. Terrell Survey 103 feet from its south southwest corner, a City monument bears west 128 feet.

Thence north no degrees 07 minutes west 4225-82/100 feet to a
 Thence north 31 degrees 15 minutes east 389-1/10 feet to a stal
 Thence north no degrees 5-1/2 minutes east 1807-9/10 feet to a
 in the north line of the said E. S. Terrell Survey; thence north 89
 degrees 37 minutes east 4-3/4 feet to a monument.

Thence south 45 degrees 27 minutes east 212-7/10 feet to a Lak
 Worth monument.

Thence north 89 degrees 43 minutes east 150 feet to a Lake Wor
 monument.

Thence north 44 degrees 30 minutes east 212-8/10 feet to a Lak
 Worth monument, in the said north line of said Terrell Survey.

Thence north 89 degrees 36 minutes east along said line, 1449-
 feet to a Lake Worth monument at the northeast corner of said Terrel
 Survey in the west line of the Daniel McVean Survey.

Thence north along said line 834-4/10 feet to a Lake Worth mor

Thence north 19 degrees 43 minutes east 437-8/10 feet to a Lak
 Worth monument.

Thence north 87 degrees 25 minutes east 95-3/10 feet to a Lake
 monument.

Thence south 66 degrees 13 minutes east 137-7/10 feet to a La
 Worth monument.

Thence south 54 degrees 05 minutes east 415-8/10 feet to a La
 Worth monument.

Thence south 24 degrees 56 minutes east 561-1/10 feet to a La
 Worth monument.

Thence south 60 degrees east 277-8/10 feet to a Lake Worth mo

Thence north 82 degrees 03 minutes east 1387 feet to a Lake W
 monument in the east line of the said McVean Survey, the west line
 said D. V. Farmer Survey.

Thence north 61 degrees 54 minutes east 1384-8/10 feet to a I
 Worth monument in the north line of the said D. V. Farmer Survey.

Thence along said line north 89 degrees 35 minutes east 178-8
 feet to a stake from which a City monument bears south 15 feet, sa
 monument numbered 218.

Thence south 7501-55/100 feet to a stake from which a City m
 number 190 bears north 15 feet.

PERMIT NO. HW-50289

CARSWELL AIR FORCE BASE
FORT WORTH, TEXASATTACHMENT B
SHEET 3 OF 11

TRACT NO. A-101

TARRANT COUNTY, TEXAS

A tract of land situated in the County of Tarrant, State of Texas, being part of the J. M. Shreeve Survey (A-1456) and being more particularly described as follows:

From the northwest corner of said J. M. Shreeve Survey east, 2310 feet to the point of beginning, said point being the northwest corner of the Noel R. Bailey, et ux, property; thence along the common line between the property of Noel R. Bailey, et ux, and the existing U. S. Government property east, 250 feet to a point; thence south, 753.4 feet to a point in the south boundary line of said Noel R. Bailey, et ux, property; thence along the common line between the property of Noel R. Bailey, et ux, on the right and the properties of Mrs Patricia Harris and Gatlin Mitchell on the left, west 250 feet to the southwest corner of said Noel R. Bailey, et ux, property; thence along the common line between the property of Noel R. Bailey, et ux, and the existing U. S. Government property north 753.4 feet to the point of beginning, containing 4.32 acres, more or less,

and being part of the same land conveyed to Noel R. Bailey, et ux, by George R. Shepherd, et ux, by deed dated 27 November 1948 and recorded in Vol 2048 at Page 550 of the Deed Records of said Tarrant County.

PERMIT NO. HW-50289

ATTACHMENT B

CARSWELL AIR FORCE BASE
FORT WORTH, TARRANT COUNTY, TEXAS

SHEET 4 OF 11

TRACT NO. A-102

ACREAGE: 22.9

Three waste sites, known as "Landfill 5," "Landfill 7," and "waste burial area" respectively, as approximately located on a tract of land, being 22.9 acres, more or less, being part of the J. M. SHREEVE SURVEY (A-1456), recorded in Vol 2576 at Page 233 of the Deed Records of said Tarrant County, and being more particularly described as follows:

From the intersection of the north right-of-way line for White Settlement Road, with the west boundary line of said J. M. SHREEVE SURVEY, east 1640 feet to the point of beginning, said point being the southwest corner of the Gatlin Mitchell property; thence along the common line between the property of Gatlin Mitchell and the existing U.S. Government property and Noel R. Bailey, et ux, property on the left, east 874.2 feet to the northeast corner of said Gatlin Mitchell property; thence along the common line between the Gatlin Mitchell and the Mrs. Patricia Harris properties south, 1145.8 feet to the southeast corner of said Gatlin Mitchell property, said point being in the north right-of-way line for White Settlement Road; thence along said north right-of-way line for White Settlement Road west, 874.2 feet to the point of beginning, containing 22.9 acres, more or less,

and being substantially the same land conveyed to Gatlin Mitchell by Jesse E. Martin by deed dated 19 September 1946 and recorded in Vol 1837 at Page 455 of the Deed Records of said Tarrant County.

CARSWELL AIR FORCE BASE
FORT WORTH, TEXAS

PERMIT NO. HW-50289
ATTACHMENT B
SHEET 5 OF 11

TRACT NO. A-104

ACREAGE: 56.2

A Tract of land situated in the County of Tarrant, State of Texas, being part of the J. M. Shreeve Survey (A-1456) and part of the John Collett Survey (A-262) and being more particularly described as follows:

From the intersection of the south right-of-way line for White Settlement Road with the west boundary line of said J. M. Shreeve Survey, east 1205 feet to the point of beginning, said point being the northwest corner of the W. Coulsting property in said south right-of-way line for White Settlement Road; thence along said south right-of-way line for White Settlement Road, south 89 deg. 35' east, 1128.5 feet to a point; thence south 00 deg. 10' east, 2170.3 feet to a point in the south boundary line of said W. Coulsting property; thence along the common line between the W. Coulsting and the Texas Electric Service Co. properties north 89 deg. 25' west, 1128.5 feet to the southwest corner of said W. Coulsting property; thence along the common line between the W. Coulsting and the R. L. Carlock, Jr., et al, properties north 00 deg. 10' west, 2168.3 feet to the point of beginning, containing 56.2 acres, more or less,

and being part of the same land conveyed to W. Coulsting by Mrs Mary E. Farmer by deed dated 15 October 1921 and recorded in Vol 723 at Page 354 of the Deed Records of said Tarrant County.

PERMIT NO. HW-50289
 ATTACHMENT B
 SHEET 6 OF 11

CARSWELL AIR FORCE BASE
 FORT WORTH, TARRANT COUNTY, TEXAS

TRACT NO. E-501

ACREAGE: 54.8

A tract of land situated in the County of Tarrant, State of Texas, being part of the John M. Shreeve Survey (A-1456) and part of the John Collett Survey (A-262), and being more particularly described as follows:

From the southeast corner of the JOHN M. SHREEVE SURVEY south 67 deg. 27' west, 1081 feet to the point of beginning, said point being the southernmost southeast corner of said W. Coulsting property and the southwest corner of the White Settlement Common Consolidated School District No. 37 property, and being also in a north line of the Wherry Housing Project property; thence along the common line between said Coulsting and the Wherry Housing Project property north 89 deg. 22' west, 432 feet to the southwest corner of the W. Coulsting property, the same being also in the existing military reservation boundary line for Carswell Air Force Base; thence along the common line between the said W. Coulsting property and the said military reservation boundary line north 00 deg. 10' west, 2170.3 feet to a point in the southerly right-of-way line of White Settlement Road; thence along said southerly right-of-way line south 89 deg. 35' east, 1427 feet to a point, same being the northeast corner of said Coulsting property and the northwest corner of the Rhea J. Vernon property; thence along the common line between said Coulsting property on the right and the Rhea J. Vernon and the Wherry Housing Project properties on the left south 00 deg. 10' east, 1165 feet, more or less, to a point, same being the easternmost southeast corner of said Coulsting property and the northernmost corner of the White Settlement Common Consolidated School District No. 37; thence along the common line between said Coulsting and the White Settlement School properties as follows:

south 74 deg. 15; west, 40.1 feet to a point of curve; thence along the arc of a curve to the left in a southwesterly direction 176.5 feet to point of tangency; thence south 13 deg. 20; west, 63.7 feet to point of curve; thence along the arc of a curve to the right in a southwesterly direction 146.5 feet to a point; thence north 89 deg. 22; west, 788.7 feet to a point, same being a reentrant corner for said Coulsting property and the northwest corner of said White Settlement School property and the northwest corner of said White Settlement School property; thence south 00 deg. 38; west, 696.4 feet to the point of beginning and containing 54.8 acres, more or less,

and being a part of the same land conveyed to W. Coulsting by Mrs. Mary E. Farmer by deed dated 15 October 1921 and recorded on Vol 723 at Page 354 of the Deed Records of Tarrant County, Texas.

PERMIT NO. HW-50289

ATTACHMENT B

CARSWELL AIR FORCE BASE
FORT WORTH, TARRANT COUNTY, TEXAS

SHEET 7 OF 11

TRACT NO. E-508

ACREAGE: 6.18

A tract of land situated in the County of Tarrant, State of Texas, being part of the B. L. Samuel Survey (A-1467) and part of the John M. Shreeve Survey (A-1456), and being more particularly described as follows:

From the northeast corner of the JOHN M. SHREEVE SURVEY and along the north line of same west 329.5 feet to the point of beginning, said point being at the intersection of the northeasterly right-of-way line of Westover Road with the existing military reservation boundary line of Carswell Air Force Base, and being the westernmost corner of the Dr. Robert C. Botts, et ux, property; thence along the common line between the said Dr. Botts, et ux, property and said military reservation boundary line east 806.5 feet to a point same being the northeast corner of the said Dr. Botts, et ux, property and being also the northwest corner of the William J. Bailey property, same being west 30 feet from the east line of the B. L. SAMUEL SURVEY; thence along the common line between the said Dr. Botts, et ux, and the William J. Bailey properties, same being 30 feet west of and parallel to the east line of said SAMUEL SURVEY south 00 deg. 50' east, 668 feet to a point in the northeasterly right of way line of said Westover Road, same being the southeast corner of said Dr. Botts, et ux, property; thence along the northeasterly right of way line of said Westover Road north 50 deg. 42' west, 1054.7 feet to the point of beginning and containing 6.18 acres, more or less,

and being substantially the same land conveyed to Dr. Robert C. Botts, et ux, by P. A. Taliaferro, et ux, by deed dated 5 April 1949 and recorded in Vol 2077 at Page 543 of the Deed Records of Tarrant Count, Texas.

PERMIT NO. HW-50289

ATTACHMENT B

CARSWELL AIR FORCE BASE
FORT WORTH, TARRANT COUNTY, TEXAS

SHEET 8 OF 11

TRACT NO. E-530

ACREAGE: 13.54

A tract of land situated in the County of Tarrant, State of Texas, being part of the Cornelius Connelly Survey (A-319), and being more particularly described as follows:

From the southeast corner of the J. B. Farmer Survey (A-514) south 30 deg. 11' west, 590 feet to the point of beginning, said point being the northeast corner of the Mrs Kate M. Hyde property, and being also in the west line of the Sidney T. Oates property and the existing boundary line of Carswell Air Force Base property; thence along the common line between said Mrs Kate M. Hyde and the Sidney T. Oates properties south, 930 feet to a point, same being the southeast corner of said Mrs Kate M. Hyde property and the northeast corner of the Homer Priddy property; thence along the common line between said Mrs Kate M. Hyde and the Homer Priddy properties west, 710.2 feet to the southwest corner of the Mrs Kate Hyde property and northwest corner of the Homer Priddy property, the same being in the east right-of-way line of River Lake Road as widened by the United States of America, Bureau of Public Roads, the said east right-of-way line being the east line of that certain tract acquired by the United States of America, Bureau of Public Roads from Mrs Kate M. Hyde in Civil Action No. 2537-In the Federal District Court for the Northern District of Texas; thence along the east right-of-way line of the widened River Lake road as follows: north 06 deg. 00' east, 179.26 feet to a point; thence north 20 deg. 02' east, 103.1 feet to a point; thence north 05 deg. 20' west, 152.97 feet to a point; thence north 06 deg. 00' east, 92, 6 feet to a point; thence north 11 deg. 50' east, 108.64 feet to a point; thence north 23 deg. 31' east, 108.64 feet to a point; thence north 29 deg. 22' east, 233.72 feet to a point in the existing boundary line for said Carswell Air Force Base Property, same being the northwest corner of said Mrs Kate M. Hyde property; thence departing from said right-of-way line and along said boundary line, same being the common line between said Mrs Kate M. Hyde and Carswell Air Force Base properties, east, 474.18 feet to the point of beginning, containing 13.54 acres, more or less,

and being a part of the same land conveyed to Mrs Kate M. Hyde by Sidney T. Oates by deed dated 10 April 1945 and recorded in Vol 1876 at Page 293; to Mrs Kate Hyde by Betty Gordon chosen by deed dated 1 April 1935 and recorded in Vol 1449 at Page 245; and to Mrs Kate Hyde by E. G. Rosen, et al by deed dated 22 May 1945 and recorded in Vol 1876 at Page 292 of the Deed Records of Tarrant County, Texas.

PERMIT NO. HW-50289

CARSWELL AIR FORCE BASE
FORT WORTH, TARRANT COUNTY, TEXASATTACHMENT B
SHEET 9 OF 11

ACREAGE: 12.20

TRACT NO. F-531

A tract of land situated in the County of Tarrant, State of Texas, being part of the Cornelius Connelly Survey (A-319) and being more particularly described as follows:

From the southeast corner of the J. B. Farmer Survey (A-514) south, 367 feet to the point of beginning, said point being the northernmost northeast corner of the Sidney T. Oates property and being also in the west line of the Grace Cozby property; thence along the common line between said Sidney T. Oates property on the right and the Grace Cozby, the Lois Trigg, and the Eugene Sergi properties on the left south, 1220 feet to a point, same being a reentrant corner of said Oates property and the southwest corner of the said Eugene Sergi property, said point being the southwest corner of Lot No. 13 in the Winding Brook Addition to Westworth Village, Tarrant County, Texas; thence along the common line between said Sidney T. Oates and the Sergi properties east, 228.1 feet to a point, same being the easternmost northeast corner of said Oates property and southeast corner of said Sergi property, and being also the southeast corner of Lot No. 13 of said Winding Brook Addition and located in the west right of way line of Winding Brook Drive; thence along said west right of way line of south, 180 feet to a point, same being the easternmost southeast corner of said Oates property and the northeast corner of Lot No. 6 of said addition; thence along the common line between said Sidney T. Oates and the Evelyn Oates properties west, 226.5 feet, to a point, same being a reentrant corner of said Oates property and the northwest corner of Lot No. 9 of said addition; thence along the common line between said Oates property on the right and the said Evelyn Oates and the County of Tarrant properties on the left south, 199.7 feet to a point, same being the southernmost southeast corner of the Sidney T. Oates property in the south right-of-way line of Oates Drive; thence west, 306.2 feet to a point, same being the southwest corner the Sidney T. Oates property, and the southeast corner of the C. R. Lees property; thence along the common line between said Oates property on the right and the C. R. Lees, the H. C. Thomas, the Homer Priddy, the Mrs Kate M. Hyde, and the Carswell Air Force Base properties on the left north, 1603 feet to a point, same being the northwest corner of said Oates property and being in the existing boundary line of said Air Force Base; thence along the common line between said Oates and Air Force Base properties east, 306.2 feet to the point of beginning and containing 12.20 acres, more or less,

and being substantially the same land conveyed to Sidney T. Oates, et ux by Betty Gordon Rosen by deed dated 1 April 1935 and recorded in Vol. 1246 at Page 43 and being the same land conveyed to Sidney T. Oates, et ux by Betty Gordon Rosen by deed dated 1 September 1934 and recorded in Vol. 1221 at Page 25 and being substantially the same land conveyed to Sidney T. Oates by E. G. Rosen, et al by deed dated 18 May 1939 and recorded in Vol. 1395 at Page 229 and being a part of the same land conveyed to Sidney T. Oates et ux by Lois Trigg, independent executrix of will and estated of Ross Trigg by deed dated 17 March 1952 and recorded in Vol. 2411 at Page 232 of the Deed Records of Tarrant County, Texas.

PERMIT NO. HW-50289

CARSWELL AIR FORCE BASE ATTACHMENT B
 FORT WORTH, TARRANT COUNTY, TEXAS SHEET 10 OF 11

TRACT NO. E-537

ACREAGE: 22.75

A tract of land situated in the County of Tarrant, State of Texas, being part of the Nathaniel H. Carroll Survey (A-264), and part of the Cornelius Connelly Survey (A-319), and being more particularly described as follows:

From the southeast corner of the J. B. Farmer Survey (A-514) and along the east line of said survey north, 416.6 feet to the point of beginning, said point being the northwest corner of the Grace Cozby property, and being also in the existing boundary line of Carswell Air Force Base; thence along said boundary line, same being the common line between said Grace Cozby and the Carswell Air Force Base properties east, 590 feet to a point, same being the northeast corner of said Grace Cozby property and the northwest corner of the Mattie Belle McNaughton property; thence along the east line of said Grace Cozby property as follows: south, 1616 feet to a point, same being the easternmost southeast corner of said Cozby property; thence west, 25 feet to a point; thence south, 69.7 feet to a point, same being the southernmost southeast corner of said Cozby property and the northeast corner of the Winding Brook Addition according to a plat and dedication recorded Vol. 388-K, Page 219; thence ~~departing from said east line and along the common line between said Grace~~ Cozby property on the right and the Garland B. Franklin, et ux, and the Lois Trigg properties on the left west 540.4 feet to a point, same being the southwest corner of said Cozby property and the northwest corner of said Lois Trigg property, and being also in the east line of the Sidney T. Oates, et ux, property; thence along the common line between said Grace Cozby property on the right and the Sidney T. Oates, et ux, and the ~~Carswell Air Force Base~~ properties on the left north, 1680.8 feet to the point of beginning and containing 22.75 acres, more or less,

and being substantially the same land conveyed to Grace Cozby by Lois Trigg by deed dated 5 November 1951 and recorded in Vol. 2369 at Page 543 of the Deed Records of Tarrant County, Texas.

PERMIT NO. HW-50289

CARSWELL AIR FORCE BASE
FORT WORTH, TARRANT COUNTY, TEXASATTACHMENT B
SHEET 11 OF 11

TRACT NO. G-700

ACREAGE: 247

A tract of land situated in the County of Tarrant, State of Texas, being part of the following surveys: F. W. SCHOEVERLING (A-1398), E. CATHEY (A-392), SOCORRO FARM CO. (A-1840), J. M. RICE (A-1799), S. B. HOPKINS (A-673), G. B. KENNEY (A-902), E. L. ALFORD (A-2000) and J. P. WOODS (A-1886), and being more particularly described as follows:

From the northeast corner of the G. B. Kenney Survey situated in the south line of the E. L. Alford Survey south 59 deg. 10' west, 755 feet to the point of beginning; thence north 05 deg. 25' east, 1840 feet to a point; thence north 50 deg. 53' east, 1120 feet to a point; thence north 89 deg. 21' east, 1885 feet to a point; thence south 47 deg. 45' east, 1145 feet to a point; thence south 02 deg. 05' east, 1380 feet to a point; thence east, 170 feet to a point; thence south 200 feet to a point; thence west, 330 feet to a point; thence south 38 deg. 40' west, 1200 feet to a point; thence south 87 deg. 20' west, 1360 feet to a point; thence south 89 deg. 44' south 87 deg. 20' west, 1360 feet to a point; thence south 89 deg. 44' west, 1013 feet to a point; thence north 39 deg. 04' west, 860 feet to the point of beginning, containing 247 acres, more or less.

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ADMINISTRATIVE RECORD

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