

KELLY AFB TEXAS

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 3281

KELLY RESTORATION ADVISORY BOARD TECHNICAL REVIEW SUBCOMMITTEE MEETING AGENDA

Tuesday, 11 January 2000, 6:30 P.M. St. Mary's University, Garni Science Hall

Topic	<u>Time</u>	<u>Presenter</u>
I. Introduction Agenda Review and Handouts	6:30 - 6:35	Dr Lené
II. BRA Groundwater Recovery System Performance Report	6:35 -7:15	Mr. James Dwyer CH2M Hill
 V. Administrative a) BCT Update b) Spill Summary Report c) Documents to TRS/RAB d) Action Item Review e) Agenda/Location/Time of Next TR 	7:15 - 7:35 S Meeting	Dr Lené
VI. Adiournment	7:35	All

Jan. 2000

MEETING MINUTES

KELLY AFB TECHNICAL REVIEW SUBCOMMITTEE (TRS) TO THE RESTORATION ADVISORY BOARD (RAB) 11 Jan 00, St. Mary's University, Garni Science Hall

- **I. Introduction:** The TRS meeting began at 6:39 p.m. Attachment 1 is the attendance report.
- II. BRA Groundwater Recovery System Performance Report: Mr. James Dwyer, from CH2M Hill, presented the Basewide Remedial Assessment Groundwater Recovery System Performance Report. Mr. Dwyer covered the reports general findings and findings by site. Mr. Dwyer's report is included as attachment

III. Administrative

- A. Documents to TRS/RAB: There were no documents to present to the TRS/RAB.
- B. Spill Summary Report: There were no reportable spills during the month of December 1999. A copy of the spill summary report is included in attachment 3. Mr. Ryan did comment on two recent incidents. The first occurred on Friday, 7 January and is consider a 301 incident. The incident is under investigation, and findings will be reported next month. The second incident, reported in Mondays San Antonio Express-News, occurred on Saturday, 8 January, and was not a reportable spill.
- C. Next TRS meeting: The next TRS meeting will be held 8 February 00 at 6:30 p.m. at St. Mary's Garni Science Hall.
- D. Action Items: No new action items were discussed.
- E. Other Administrative Items:
 - 1. Dr. Squibb's final TAPP report will be mailed to RAB members in the next few days She will present the final report at the 25 Jan 00 RAB meeting.
 - 2. Mr. Ryan asked Dr. Lené if the 18 April 00 RAB meeting be shifted to 11 April 00 with 11 April TRS meeting moved to 4 April 00. Dr. Lené had no problem with the change in the RAB meeting date. The consensus on the April TRS meeting was to wait to and make the determination closer to April.
- IV. Adjournment: The TRS adjourned at 7:50 p.m.

Attachments:

- 1. Attendance List
- 2. Spill Summary Report
- 3. BRA Groundwater Recovery system Performance Report Slides
- 4. BCT Minutes, 11 Jan 00



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS SAN ANTONIO AIR LOGISTICS CENTER (AFMC)
KELLY AIR FORCE BASE, TEXAS

1 0 JAN 2000

MEMORANDUM FOR REMEDIAL ACTION BOARD/TECHNICAL REVIEW SUBCOMMITTEE (RAB/TRS)

FROM: SA-ALC/EMQC 307 Tinker Drive, Bldg. 306 Kelly AFB, TX 78241-5917

SUBJECT: Monthly Spill Report for December 1999

There have been no reportable quantity or otherwise notable spills for the month of December 1999. Should you have any further questions or require additional information, please contact Mr. Jerry Pantoja at 925-3100 ext. 310 or email jerrypantoja@kelly.af.mil.

Sincerely

CHARLES WILLIAMS

Chief, Environmental Compliance Division

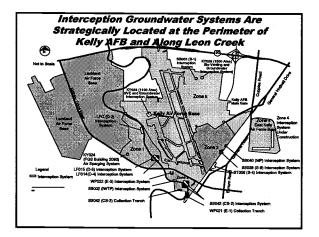


MODELING KELLY AFB's GROUNDWATER INTERCEPTION SYSTEMS

Evaluating Kelly AFB Efforts to Control the Flow of Compounds Beyond the Base Boundaries

and trenches to prevent contaminant flow off site began in 1990.

- 12 interim systems (wells and trenches)
- * System operation:
 - S-4 began mid-1990
 - S-8 began early 1992
 - Zone 1 and 2 began fall 1993
 - S-1 and Site MP began spring and winter 1995, respectively



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Kelly AFB uses groundwater modeling to product site specific system effectiveness by percent of capture of the plume.

- Develop detailed, site specific computer models
- ♦ Calibrate to field data
- Predict groundwater capture zone
- * Compare capture zone to plumes
- * Evaluate the percent capture



prputer Model Development

- Built on 1994 through 1997 modeling efforts
- * Starts with data compilation
- Evaluate subsurface conditions
- * Review shallow groundwater properties
- Construct and calibrate model

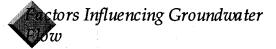
ally AFB has compiled stantial amounts of data for use in the model.

- ♦ 10 quarterly monitoring reports (1994 1996)
- ♦ 5 annual monitoring reports (1994 1998)
- ♦ 13 reports of investigation
- * Kelly environmental database
- Data summaries
 - 954 boring logs
 - 510 aquifer tests

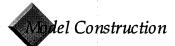
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Subsurface conditions, as observed in the field, were used to represent properties of shallow groundwater for modeling.

- ♦ Focused on Zones 1, 2, 3, and 5
- Included two subsurface layers
 - Layer 1, low permeability surface materials
 - Layer 2, coarse alluvium between Layer 1 and underlying Navarro Clay
- Identified factors influencing groundwater flow



- Extent and permeability of coarse alluvium (Layer 2)
- Configuration of underlying Navarro Clay
- Leon Creek



- ♦ Created 8 models for 10 sites
- Used grid spacing of 20 to 25 feet
- Input numbers to represent subsurface properties and shallow groundwater
- Ran the model using United States Geological Survey computer programs (MODFLOW and MODPATH)

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Characteristics of the constructed model are consistent with site conditions.

- ♦ Two subsurface layers
- The Navarro Clay is hundreds of feet thick and underlies the shallow groundwater
- ♦ Used Sept. 1997 and Sept. 1998 water level measurements
- Used Sept. 1997 Sept. 1998 well and trench pumping rates

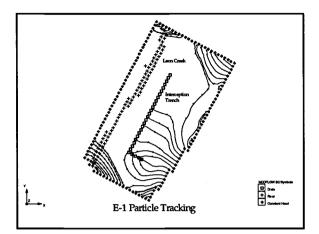
Model calibration establishes the areacy with which the model predicts actual conditions.

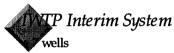
- ♦ Simulate water level surfaces with the model
- ♦ Compare with observed water levels
- Adjust permeability assumptions
- Continue simulations until there is consistency with observed measurements

The alibrated model predicts the comminant capture zone of the interception systems.

- ♦ Capture zones based on particle tracking
- Creates and generates path line plots
- ♦ Compares capture zones to 1998 groundwater plume maps

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- ♦ Combined with CS-2 North Bank and CS-2
- ♦ Intercepts greater than 90% of contaminant plume. Bypass flow is intercepted in CS-2.
- System design optimization is currently ongoing.

2 Interim System

10 wells and short trench

- ♦ Modeled with CS-2 North Bank and Industrial Wastewater Treatment Plant
- ♦ Intercepts nearly 100% of contaminant plume
- Provides secondary barrier for CS-2 North Bank and Industrial Wastewater Treatment Plant
- System design optimization is currently ongoing.



😘 Interim North Bank System

- 13 wells
- ❖ Modeled CS-2 and IWTP
- ♦ Intercepts about 80% of contaminant plume
- System is currently being optimized and increased contaminant interception will be achieved.



Interim System

- * 13 wells
- Intercepts about 30% of contaminant plumes
- The Corrective Measures Implementation (CMI) final preparation of remedial strategies is currently being completed.



D→Interim System

- ♦ 14 wells
- ♦ Intercepts about 60% of the contaminant plumes.
- ♦ Bypass flow may enter Leon Creek or be intercepted by the D-5 System
- The CMI final preparation of remedial strategies is currently being completed



Interim System

- ♦ 3 wells
- ♦ Intercepts about 40% of the contaminant plumes.
- The CMI final preparation of remedial strategies is currently being completed



Interim System

- ♦ 500 foot trench
- ♦ Intercepts 100% of the contaminant plumes at the trench.
- Final remedial design is currently ongoing.



Interim System

- ♦ 9 wells
- Intercepts about 70% of contaminant plumes.
- Contaminant plumes do not extend to Leon Creek.
- System design optimization is currently ongoing.



Mnterim System

- ♦ 6 wells
- ♦ Intercepts about 50% of contaminant plumes
- ♦ Contaminants are not moving offbase.
- ♦ Source was excavated.



Interim System

- ♦ 24 wells
- ❖ Intercepts about 75% of contaminant plumes
- ♦ The system has been optimized (November 1999) and increased contaminant interception has been achieved.



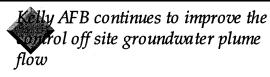
S Interim System

- ♦ 12 wells
- ♦ Modeled with MP
- ♦ Intercepts nearly 100% of contaminant plumes
- System has been optimized to increase contaminant interception.



MPInterim System

- ♦ 4 wells
- ♦ Modeled with S-8
- Intercepts nearly 100% of contaminant plumes
- Recently upgraded by installation of a slurry wall around the source area to better prevent off base contaminant flow



- Detailed site information used to evaluate interim groundwater interception systems
- Modeling predicts that about half of the interim interception systems capture more the 75 % of the associated contaminant plumes

Keth AFB continues to improve the courol of off site groundwater plume flow. (continued)

- Results of the modeling were used in the decision to upgrade some of the interception systems and develop final remedial actions.
- ◆ Installation of new interception system in Zone 4
- Future evaluations of system upgrades and new systems continue

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The meeting was held on 11 January 2000 at the WPI office in San Antonio, Texas.

Members Present and Support Personnel:

Name	Organization	Present	Absent
Brown, Leslie	KAFB	X	
Buelter, Don	KAFB	. X	
Callaway, Laurie	BCA (KPMG)	X	
Carrillo, Mike	EPA	X	
Landez, Norma	KAFB	X	
Meshako, Chuck	BCA	X	
Neff, Richelle	UNITEC	X	
Pavlo, Tina	GKDC (OpTech)		X
Power, Abigail	TNRCC	X	
Price, Lisa Marie	EPA	X	
Ryan, William	KAFB	X	
Sassaman, Captain Brian	KAFB		X
Stankosky, Laura	EPA		X
Underwood, Tim	BCA (KPMG)		X
Weegar, Mark	TNRCC	X	
Wehner, Ellie	TNRCC	X	

Lee Wille (UNITEC) facilitated.

Dates for upcoming meetings.

February 8, 2000 March 14, 2000 April 11, 2000 May 9, 2000 June 13, 2000

Item#	Lead	Support	Discussion Topic	Comments	How will we know it's done?	Disposition
1.	Underwood, T.	BCT Members	Redevelopment Update	Update the BCT regarding redevelopment status at Kelly AFB.	Team receives update.	Closed. Update received.
2.	O'Brien, S.	BCT Members	Eco-risk Assessment	CH2M Hill will provide a presentation on the current status of the Eco-risk assessment.	Presentation is complete.	Open. Presentation has been moved to the February BCT meeting. Technical memos will be submitted to the EPA and TNRCC NLT 21 January.
3.	Weegar, M.	BCT Members	Risk Reduction Standards vs. TRRP	Clarify long-term remedial options under RRS and TRRP.	Discussion is complete.	Closed. Mark Weegar will schedule a meeting with Kelly AFB and the EPA to discuss TRRP and RRS by the end of January.
4.	Weegar, M.	BCT Members	Full Closure Model	Review matrix relating the old and new TNRCC public participation model, if matrix has been completed.	Team reviews matrix.	Open. The matrix relating the old and new public participation models is still in draft form at the TNRCC. The BCT will review the matrix once it is finalized.
5.	Buelter, D.	Landez, N. Hampton, R.	Zone 2 Update and Closure Strategy	Provide overview of site activities (i.e. scoping meetings, innovative technologies) and strategy for site closure.	Team receives update.	Open. Kelly will submit the E-3 CMI. Kelly AFB will send a letter to the regulators informing them not to review the CMS addendum and that the CMI work plan will be submitted 180 days from the date of the letter. The CMS for Zone 2 will be submitted later. Lisa Price will read the B522 and S-3 documents and send questions to Kelly Environmental Management before the next meeting.
6.	Buelter, D.	Landez, N. Hampton, R.	Zone 3 Update and Closure Strategy	Provide overview of site activities (i.e. scoping meetings, innovative technologies) and strategy for site closure.	Team receives update.	Closed. Any contamination which has a source in the 300 Area will be addressed in one CMS for soil and groundwater. Remedial technologies chart presented.
7.	Landez, N.	Meshako, C. Price, L.	SWMU Site Close-out List	SWMU close-out list was distributed at December BCT meeting. Team will review list during the January BCT meeting. Kelly AFB will provide update on the development of a tracking list for EBS sites.	Team reviews list and receives update.	Open. Chuck Meshako distributed an environmental baseline survey (EBS) site list. Mr. Meshako will produce a merged and updated SWMU/EBS list for the February BCT meeting.
8.	Meshako, C.	Whitley, A.	Historical Tank Sites on Disposal Property	Kelly AFB and AFBCA will propose procedures for sampling and propose responses to any releases discovered.	Team reaches consensus on procedures and responses.	Closed. Kelly AFB will address tanks as regular petroleum storage tank sites under state RBCA rules.
9.	Ryan, W.	Buelter, D. Rohne, R. Sassaman, B.	Zone Updates	Provide team with update of current activities in Zones 1, 4, and 5.	Team receives update.	Closed. Updates distributed for zones 2, 3, and 5.
10.	Ryan, W.	Weegar, M. Carrillo, M.	List of Future Deliverables (Regulators/RAB)	Each month, provide a list of upcoming documents for review.	Team receives list of upcoming documents for review.	Closed. List distributed.
11.	Ryan, W.	BCT Members	BCT Teleconference Scheduling	Each month, establish the coming schedule of teleconferences.	Teleconference schedule adopted	Closed. The next BCT teleconference is scheduled for 2/1/00 at 9:00 am.
12.	Ryan, W.	BCT Members	Begin February Agenda	Each month, begin to establish the next month's agenda at the end of the BCT meeting.	by the team. Team approves agenda items.	Closed. Open items from this meeting will be moved to the February BCT meeting. Other February agenda items include: Zone updates emphasizing Zones 2 and 4 Zone 5 CMS B258 and E-1 RFIs BCP Abstract

JANUARY 11, 2000 BCT ZONE 5 STATUS REPORT

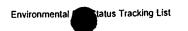
PROJECT	STATUS	DELIVERABLE DATE
Zone 5 RFI	Revised pages completed IAW regulator comments.	11 Jan 00
Zone 5 CMS	Draft modeling report received - to be included in CMS.	22 Feb 00
Site S-1 (SS003)	Excavation/backfill completed 1 Dec 99. Installation of	N/A
IRA	SVE system to begin in February (6 week duration).	
Warehouse Area	B1420: Closure report submitted 15 Nov 99. Request	Submitted
SWMUs	regulator concurrence.	
	Busal awa a war a	
	B1501 OWS: Pending completion of cleaning, plugging of	
	line and analytical results of soil samples.	
	B1501 vaulted oil tank: pending removal.	
	B1519 wash rack: TNRCC concurs with NFA. Request	11 Jan 00
	NFRAP document be signed by Kelly and regulators at	11 Jan 00
	BCT mtg.	
SWMU Closures	B50 OWS: Closure report (RRS2) submitted 3 Dec 99.	Submitted
	Request regulator concurrence.	
	B70 OWS: Additional investigation ongoing.	
	B804 OWS: Classes server (BBS2) submitted 2 Day 00	22 14 00
	B894 OWS: Closure report (RRS2) submitted 3 Dec 99. TNRCC approved report on 23 Dec 99. Kelly AFB to	22 Mar 00
	submit proof of deed certification.	
	Submit proof of deed certification.	
	B914 OWS: Timeline for demo changed from 2002 to 2001.	Jan 00
	New contract or mod to existing contract required for	
	removal or RRS 3 closure. Kelly AFB to submit letter	
	requesting removal at time of building demolition (2001)	
	instead of RRS 3 closure.	
	POSO OWS (
	B920 OWS (removal/replacement): RRS2. Pending contract mod.	
	Contract mod.	
	B946 OWS (removal/replacement): RRS2. Pending	
	contract mod.	
	B966 OWS: Additional investigation required for closure.	
	B1147 OWS (removal/replacement): RRS2. Pending	
	contract mod.	
	B1151 OWS (removal/replacement): RRS2. Pending	
	contract mod.	
	B1418 Lift station: Lift station removed in December.	
	Additional sampling/excavation programmed to be	
	performed. Report being updated to reflect removal and	
	assessment instead of closure report	

JANUARY 11, 2000, BCT ZONE 2 AND 3 STATUS REPORT

PROJECT .	STATUS	DELIVERABLE DATE
600 Area RFI	Tank holding area will be completed w/EPCF RFI data. OWSs are in the process of being removed. ITIR will not be submitted; data will be incorporated into closure reports.	
Zone 2 RFI	RFI Reports for Site S-3 and Building 522 have been submitted to the TNRCC and EPA.	Draft Final RFI Report: 6 Dec 99 Draft Final Release Assessment: 6 Dec 99 Draft Final Site E-1 RFI: 6 Mar 00.
	Site E-1 required additional information. CMS for these sites will be conducted in FY00.	
RCRA Regulated Units	Site SD-1: Final Report Submitted. Kelly AFB received comments on the final document from the TNRCC dated 19 Nov 99. Site SA-2: Incorporating new data. Site S-8: System operational. Site E-3: System operational.	Comments to Site SD-1 Closure Report: Resp. 11 Feb 00. Site SA-2 Final Closure Report: 11 Feb 00
Zone 2 Site Closures	Data is undergoing analysis. An analysis of the data has taken longer than expected as efforts have been placed on other sites. Contractor is currently writing report. Decision point may be necessary to determine whether closure will be RRS 2 or 3. Information will be provided at the February BCT. BCT will identify closure mechanism at that meeting.	Draft Final Closure Report: TBD
Soil Remedial Actions	Kelly AFB is in the process of looking at the entire data set from Sites S-9, FC-2 and OT-1 to determine final closure actions. Contractor will provide closure method at February BCT meeting.	Draft Final Closure Report: TBD
EPCF RFI	Met on 18 Oct 99 to discuss sampling locations and rational to complete the investigation in the EPCF area.	
Zone 2 Groundwater CMS	Report has been submitted to the regulators. Public meeting to be held in January to meet Air Force requirements	
GW Optimization Projects	Site E-3 Optimization Upgrade: Mar 00 Site CS-2 NB Optimization Upgrade: Jul 00	
Building 258 RFI	Monthly samples being collected.	Draft Final RFI Report: 25 Apr 00
300 Area RFI	Fieldwork for Phase 1 has been completed. Fieldwork for Phase 2 will begin in December. Additional sampling will	Field Data Summary Report: 30 Nov 99 Draft Final 300 Area RFI Report: TBD

Kelly AFB Documents Going to the TNRCC/EPA 60-Day Projection (11 January 99 to 10 March 99)

Zone	Site	Document	Regulator Activity	Date to be Received
2	FC-2, S-9, OT-1	Draft Final Zone 2 Site	Document Review/	6/26/00
2	Site E-1	Draft Final Site E-1 RFI	Document Review/ Comment	2/10/00
2	SA-2	Final Closure Report	Document Approval	2/11/00
3	300 Area	300 Area ITIR (4 OWSs)	Document Review/ Comment	2/28/00
3	300 Area	Building 362 RFI Report	Document Review/ Comments	2/18/00
3	300 Area	B375 Trailer Holding Area Release Assessment	Document Review/ Comment	2/28/00
3	Building 348 Release	Draft Final Investigation Report	Document Review/ Comment	2/25/00
3	Site S-4 Soil	Final Closure Report	Document Approval	1/31/00
3	IWCS Closure Project	Draft Final IWCS Closure Plan	Document Review/ Comments	4/17/00
5	Zone 5 RFI	Response to regulatory comments/modifications	NA	1/15/00
5	Zone 5 CMS	Draft Final CMS	Document Review/ Comment	2/4/00
BW	Ecological Risk Assessment	Draft Final Ecological Risk Assessment Tier II	Document Review/ Comment	2/29/00
BW	Semiannual Compliance Plan Report	Semiannual Compliance Plan Report	Document Review/ Comment	1/21/00



Facility ID	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
38	AST-40-01	NA NA	AG		0	0	1 2
38	AST-40-02	NA	AG		0	0	2
38	AST-40-03	NA NA	AG		0	0	2
38	AST-40-04	NA	AG		0	0	
38	OWS-38	NA	Vehicle Fuel Station		Active	<u>- </u>	
38	UST-0038-01	NA	Diesel	i——	Removed	Base Fuel Station	1 2
38	UST-0038-02	NA.	Mogas		Removed	Base Fuel Station	
38	UST-0038-03	NA NA	Mogas (Empty)		Removed	Closure Site Assessment (CSA) recommended closure of Groundwater under the IRP program. PST-RPR weiting on Limited Site Assessment (LSA) and Remedial Assessment (RA) from Kelly. Report submitted to TNRCC (PST).	
38	UST-0038-04	NA	Mogas (Empty)		Removed	CSA recommended closure of Groundwater under the IRP program. PST-RPR waiting on LSA and RA from Kelly. Report submitted to TNRCC (PST).	2
38	UST-0038-05	NA	Diesel		Removed	CSA recommended closure of Groundwater under the IRP program. PST-RPR waiting on LSA and RA from Kelty. Report submitted to TNRCC (PST).	2
38	UST-0038-06	NA NA	Diesel		Removed		+ -; -
47	OWS-47	NA NA	Vehicle Operations		Inactive		5
50	OWS-50-1	NA	Vehicle Maintenance Shop		Active	<u> </u>	1 1
50	OWS-50-2	NA	Vehicle Maintenance Shop		Active	Replaces 50-1	
50	WRW-50	NA.	Vehicle Maintenance Shop		Active		1
53	AST-0053-01	NA.	Oil		Active	NA	
53	AST-0053-02	NA	Waste Fuel		Inactive	NA .	1
53	AST:53-03	NA NA	Unknown		0	0	
53	UST-53-01	NA	Mogas		Unknown	The tank was abandoned in 1953	
54	AST-0054-01	NA	Diesel		Active	NA	'
54	AST-54-02	NA.	Diesel		0	0	
66	AST-66-01	NA.	Diesel		0	0	5
70	OWS-70	NA.	Storage		Removed	Closure plan being prepared under TNRCC Risk Reduction 2	1 7
70	WRW-70	NA NA	Storage		Inactive		1 -1
81	AST-81-01	NA NA	Diesel		0	Internal tank for the back-up generator	1 7
89	UST-89-01	NA NA	Aviation Gas		Unknown	Kelly AFB plans to conduct a magnetometer survey to locate the USTs	1 7
89	UST-89-02	NA NA	Gasoline		Unknown	Kelly AFB plans to conduct a magnetometer survey to locate the USTs	1 - 7 -
	UST-89-03	NA NA	Kerosene		Unknown	Kelly AFB plans to conduct a magnetometer survey to locate the USTs	
89	AST-0098-04	NA NA	Waste Oil	<u> </u>	Active	Closure pending TNRCC	2
98	UST-0098-01	NA NA	Mogas (Unleaded Plus)		Active	Submitted LSA to PST-RPR in Aug 1995.	2
		NA NA			Active	Submitted LSA to PST-RPR in Aug 1995.	2
98	UST-0098-02		Mogas (Unleaded Reg.)		Active	Submitted LSA to PST-RPR in Aug 1995.	2
98	UST-0098-03	NA	Mogas (Unleaded Supreme)	g gáir Phráir	Removed	(See SWMU Table 3-7)	2
2-12 12 98 40 K 18 M.C.	- UST-0098-04 - 6	040/088	Used Crank Case Oil (ANY) And Section Section (ANY)		Removed	Submitted CSA to H &SW to TNRCC.	2
182	UST-0182-01	NA NA	Mogas (Empty)		Removed	Submitted CSA to H &SW to TNRCC.	2
182	UST-0182-02	NA NA	Mogas (Empty)		Removed	Submitted CSA to H &SW to TNRCC.	2
182	UST-0182-03	NA NA	Diesel (Empty)		Removed	Submitted CSA to H &SW to TNRCC.	5
182	UST-0182-04	NA .	Unknown (Emply)		Removed	Submitted CSA to H &SW to TNRCC.	5
182	UST-0182-05	. NA	Unknown (Empty)			Submitted CSA to H &SW to TNRCC.	2
182	UST-0182-06	NA	New Oil (Sand)	<u> </u>	Removed	Submitted CSA to H &SW to TNRCC.	2
182	UST-0182-07	NA	New Oil (Sand)	<u> </u>	Removed	Submitted CSA to H &SW to TNRCC.	5
182	UST-0182-08	NA	Petroleum Solvent (Sand)	ļ	Removed	Submitted CSA to H &SW to TNRCC.	5
182	UST-0182-09	NA	Petroleum Solvent (Sand)		Removed		5
182	UST-0182-10	NA	Petroleum Solvent (Sand)		Removed	Submitted CSA to H &SW to TNRCC. Submitted CSA to H &SW to TNRCC.	5
182	UST-0182-11	NA	Unknown (Sand)		Removed		1
200	AST-0200-01	NA .	Diesel		Active	Replaced UST 200-01 Replaced with 12,000 gallon vaulted tank. TNRCC letter of closure dated 2 Feb 1998.	2
200	UST-0200-01	NA NA	Diesel	L	Closed		0
303	OWS-303	NA NA	Maintenance Shop		Inactive	RFI planned IRP Site UST-308. Closed with TNRCC approval on 28 Mar 1994. (See SWMU Table 3-7)	4
308	UST-0308-01	→ 063/÷\	Petroleum Solvent	April 1985	Closed		
310	AST-0310-01	NA NA	Diesel		Removed	Exact location not known.	1
			Mogas		Removed	Exact location not known.	

Facility ID	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
314	AST-0314-01	NA.	Diesel	i -	Active	Minor staining observed on pavement.	
ा″ः	AST-0317-01		Empty management with your miner and orange too part of the part of the part	189 - 188 - 18	Inactive	NATHORNER A CHARACTER STANDARD CO.	
.). Laiz 254	# (AST,03)7.02 A		Floor Sumo Discharge (A)	474	Active	Reocaled from Bulking 513, 1995 (SWMU 58/- See SWMU Table E.2) Former contents 7808 oil at 10(513) Williams (SWMU 58/- See SWMU Table E.2)	1
917. [36]	AST 0017.00	1070		C18-5	inective	Rejocated from Building 513 (1995 (SWAIU 58/- See SWAIU Table E.2) Former contents 78/8	1
317 3 33 4	AST-0317-04	× 076/— **	Empty associated association and the second section and the section a	MATERIAL STATE	Watnective 19	MANUFACTURE OF THE PROPERTY OF	1 1 -
317 35	AST-0317-05		Empty-neyworks.inter-textual entering and the control of the contr	2012/10/10/10	To inactive	NA TO SEASON DESCRIPTION OF THE PARTY OF THE	1
317	AST-0317-06	076/	Empty v-harmonic state of the control of the contro		# Inactive :	Marty State State Committee Committe	1_1_
		NA NA	Central Waste Staging Facility		Active		0
317	OWS-317	NA NA			Active		11
317	WRW-317		Central Waste Staging Facility		1995	Used to wash base vehicles	7
317	WRW-47	NA .	Transportation Operation	 	Active	Self-contained unit, the SRU is used in non-destructive inspection shop	Good
320	SRU-320	NA .		├ ──		Self-contained unit, the SRU is used in the aircraft components shop	Good
323	SRU-323	NA			Active	Closed as standard one on July 1997. (See SWMU Table 3-7)	7
326	UST-0326-01	069/	Petroleum Distillate	10000	Closed		0
328	OWS-328	NA	Maintenance shop		Active	Former drum washrack	2
328	WRW-328	/220	Maintenance shop		Active	Former drum washrack and state of the state	
329	OW\$-329	NA	T-56 Accessories Shop		Active	Parts Washrack	2
329	UST-0329-01	AOC E	Petroleum, Oll, Lubricants	10000	Removed	IRP Site S-8. Known releases from USTs.	1 2
329	UST-0329-02	AOCE	Petroleum, Oll, Lubricants 2000 - 45 1 34 2000 2000 2000 2000	and the second of the	Removed	IRP Site S-8. Known releases from USTs.	2
329	UST-0329-03	AOC E	Petroleum, Oll, Lubricants stores of the analysis and a second	n a test to	Removed	IRP Site S-8. Known releases from USTs.	
329	UST-0329-04	AOC E	Petroleum, Oil, Lubricants	1980 F V	Removed	IRP Site S-8. Known releases from USTs.	2
329	WRW-329	NA NA	T-56 Accessories Shop		Active	Parts Washrack	2
330	UST-0330-01(2)	NA NA	New Oil		Removed	IRP Site S-8.	2
330	UST-0330-02(2)	NA NA	New Oil		Removed	IRP Site S-8.	2
					Removed	IRP Site S-8.	2
330	UST-0330-03(2)	NA	New Oil		Removed	IRP Site S-8.	6_
330	UST-0330-04(2)	NA	Petroleum Solvent		Removed	IRP Site S-8.	6
330	. UST-0330-05(2)	NA.	Used Petrelwum .Solvent				1
331	AST-0331-01	NA	JP-5		Active	NA	1
331	AST-0331-02	NA	JP-5		Active	NA	T
331	AST-0331-03	· NA	JP-5		Active	Day Tank	0
331	OWS-331	NA	Engine Repair Shop		Inactive	RFI planned '	
333	AST-0333-01	NA	Spent Calibration Fluid		Active	NA	
333	AST-0333-02	NA	Calibration Fluid		Active	NA	1
333	AST-0333-03	NA NA	Diesel	i — —	Inactive	NA	 '
333	UST-0333;01	041/067	Calibration Fluid	2007 JA	Closed	Partial Facility Closure Plan, Standard One Closure Report submitted to TNRCC. Approved July 1997.	7
333	UST-0333-02	041/067	Spent Calibration Fluid	30.96.38	Closed	Partial Facility Closure Plan, Standard One Closure Report submitted to TNRCC. Approved July 1997.	7
333	UST-0333-03	NA	Diesel		Closed	Partial Facility Closure Plan, Standard One Closure Report submitted to TNRCC. Approved July 1997.	7
337	UST-0337-01	NA NA	PD-680 (Empty)	 	Closed	Submitted LSA, TNRCC approval letter received 2 Feb 1998.	2
340	OWS-340	NA NA	Engine Repair Shop	 	Inactive	Closure plan prepared under RRS #2	0
	UST-0343-01	NA NA	JР-4	 	Closed	Currently IRP S-8 (Formerly numbered Building 332). Closure approved April 1998.	7
343			JP-4	 	Closed	Currently IRP S-8. (Was numbered as Building 332). Closure approved April 1998.	7_
343	UST-0343-02	NA NA			Inactive	PEI planned	0
345	OWS-345	NA	Engine Repair Shop			Removal of tanks 1, 2, 8, 9, 10 has been approved. Tanks 6 and 7 closure report pending.	7
347	UST-0347-01	028/068	Waste Oil (Empty)	└	Removed	Removal of tanks 1, 2, 8, 9, 10 has been approved. Tanks 6 and 7 closure report pending.	7
347	UST-0347-02	028/089	Waste Stand Calibration Fluid (Empty)	L	Removed		7
347	UST-0347-03	NA	Used Oit (Empty)		Closed	Closure approved June 1996.	2
347	UST-0347-04	NA	Calibration Fluid		Closed	Closed by TNRCC under PST June 1996.	2
347	UST-0347-05	NA	Calibration Fluid		Closed	Closed by TNRCC under PST June 1996	2
347	UST-0347-06	NA	Calibration Fluid		Closed	Removal of tanks 1, 2, 8, 9, 10 has been approved. Closure report approved June 1996.	2
347	UST-0347-07	028/070	Spent Stand Calibration Fluid		Closed	Removal of tanks 1, 2, 8, 9, 10 hes been approved. Closure report approved June 1996.	<u> </u>

Facility ID	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Categor
347	UST-0347-08	028/071	Test Stand Waste Calibration Fluid		Abandoned In place	Refinoval of series 1, 2, 0, 6, 10 Table Door approved	7
347 2 70%	UST-0347-09	£ 028/072	Floor Trench Drain Waste (Waste Oil)	Jagania	Removed	Removal of tanks 1, 2, 8, 9, 10 has been approved. Closure report pending.	 ' -
347 (1945)	UST-0347-10	- 028/073 ···	Used Oil (Empty): *** ** ** **************************	94 7 75	Removed	Removal of tanks 1, 2, 8, 9, 10 has been approved. Closure report pending.	
348	AST-0348-01	NA NA	Preservation Oii (1010)		Active	NA	1 1
348	OWS-348	/106 ·	Engine Repair Shop (1983) (November 1984) (1984) (1984) (1984)		Inactive "	RFI planned to Program in the State Care Transport	0 2
348	UST-0348-01	NA NA	Calibration Fluid		Removed	Stepdent one closure being pursued. Closure pending. Quarterly monitoring in progress.	2
348 395-	UST-0348-02	029/074	Calibration Fluid - As to ##### Project Control of the Control of	98. Pas 13	Removed	Standard one closure being pursued. Closure pending. Quarterly monitoring in progress.	1 2
348	UST-0348-03	NA.	Oil		Closed	Closed by PST-RPR.	1 2
348	UST-0348-04	029/075	Speni Oil server grants while the way and the server of th	2 m 7.d #	Closed	Closed by PST-RPR.	1 1
351	UST-0351-01	070/	PD-680 (Empty) 22 22 5 46 19 19 19 19 19 19 19 19 19 19 19 19 19	रे हैं, की बाद्य ह ि है	(Closed	Closed as Risk Reduction Standard 2, TNRCC letter received July 18, 1996	+ +
351	UST-0351-02	070/	PD-680 (Empty) is used With the factor of the second to be discovered.	ति स्था नसङ्	Closed	Closed as Risk Reduction Standard 2, TNRCC letter received July 18, 1998	
352	OWS-352	NA.	Storage Facility		Inactive	RFI planned	1 1
352	WRW-352	NA.	Storage Facility		Active		+ +
380	AST-0360-01	030/076	Empty (nonhazerdous waste per RFA)	520分别的食	* Inactive *	(See SWMU Table E.2)	-
360	AST-0360-02	030/077	Empty 18 (northszardous waste per RFA)	11-11-11	Inactive	(See SYMUTADE EZ) AND STORES	45.17
360	AST-0380-03	030/078	Empty (%) (acid solutions)	HAD.		unit for use	1.
360	AST-0360-04	030/079	Weşte: 27 Paintstripper	10.22	Active	(See SVMU, Table E.2)	1
360	AST-0360-06	030/081	ALK Rist Remover	No.	Active,	(See SWMU,Table E.2)	1
ÿ÷ 360 - ∛	AST-0360-06	030/083	Weste Carbon 1777		Active	(See SWMU Table E.2)	1_1
360	AST-0360-07	030/082	ALK Rust Remover	14.77	Active	(See SWMU Table E 2)	. 1
360	AST-0360-08	030/060	Wasie Paintstripper		Active	(See SVMU Table E.2)	1
360	AST-0360-09	030/084	Empty (Waste PCE)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Inactive	(See SV/MU Table E.2)	5.11
360	AST-0360-10 **	030/085 /	Waste Alkaline Permanganate Solution	on glasses with	Active	(See SWMU Table E.2)	1
360	AST-0360-11	030/086	Waste NH4 *** Nitrate Stripper Solution		Active	(See SYMU Table E.2)	J . 1
360	OwS-360	NA	Engine Maintenance		Inactive		-
360	UST-0360-01	NA NA	Waste Alkaline Permanganate		Abandoned in	-	1
360	UST-0360-02	NA .	Waste NH4		Abandoned in place	-	1
360	UST-0360-03	NA .	Never Used		Abandoned in place	-	1
360	UST-0360-04	NA NA	Never Used		Inactive	*	Good
361	SRU-361	NA.			Active	Self-contained unit, the SRU is used in the non-destructive inspection shop	1 3000
365	AST-0365-01	NA	Diesel generator		Inactive	Backup Generator	1 0
365	OWS-365	NA.	Aircraft Corrosion Control		Inactive	RFI planned and Closure plan prepared under RRS #2	1 2
365	UST-0365-01	NA NA	Diesel		Closed	TNRCC approved closure 10/16/94.	+ +
365	WRW-365	NA.	Aircraft Corrosion Control		Active		

Facility ID	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Calego
367	HYF-367	NA	Vehicle and Aircraft Fueling, Tank 11066-69		Lines will be closed	The facility is located along the southeast end of the runway on Bermin Road. It supplies aircraft fuel to Pads 1, 3, 30, and 35. The system also has 2 fillstands and 4 hydrant outlets. The system is stainless steel and equipped with a leak detection system. There are no plans for removal, but the lines will be drained and grouted. The system will be investigated in FY2000 in preparation of site closure. A VSI performed in March 1996 indicated minor staining at this refueling system. The system is associated with tanks UST-0367-01 through -05. Tanks were removed in September 1999.	
367	OWS-367-1	NA NA	Hydrant Fuel	-	Active	Diverted to EPCF	0
367	OWS-367-1	NA NA	Hydrant Fuel	_	Active	Diverted to EPCF	0
367	OWS-367-3	NA NA	Hydrant Fuel		Active	Diverted to EPCF	0
367	UST-0367-01	NA NA	JP-5		Removed	Tank is part of Hydrant Fueling System HYF-0367. A RFI is planned for the fuel lines and the lines will be removed and the site closed.	7
367	UST-0367-02	NA	JP-5		Removed	Tank is part of Hydrant Fueling System HYF-0367. A RFI is planned for the fuel lines and the lines will be removed and the site closed.	7
367	UST-0367-03	NA NA	JP-5		Removed	Tank is part of hydrant Fueling System HYF-0367. A RFI is planned for the fuel lines and the lines will be removed and the site closed.	7
367	UST-0367-04	NA	JP-5		Removed	Tank is part of Hydrant Fueling System HYF-0367. A RFI is planned for the fuel lines and the lines will be removed and the site closed.	7
367	UST-0367-05	'NA	JP-5 (Overflow)		Removed	Tank is part of Hydrant Fueling System HYF-0367. A RFI is planned for the fuel lines and the lines will be removed and the site closed.	7
371	HYF-371	NA	Fuel to Depot Maintenance		Lines will be closed	Facility has been deactivated; pipelines were abandoned in place. Site is associated with IRP Site S-4, which was identified in 1980 when approximately 9,000 gallons of JP-4 were lost through a suspected leak in the underground fuel distribution system associated to this HYF-371. Associated with tanks UST-037-01 through -06. The lines will be drained and grouted, and the system investigated in FY2000 in preparation of site closure.	
371	UST-0371-01	NA NA	JP-4 (Empty)	1	Removed	TNRCC review LSA. Sent to I&HW Division 8/1/95 for further evaluation.	7 7
371	UST-0371-02	NA.	JP-4 (Empty)		Removed	TNRCC review LSA. Sent to I&HW Division 8/1/95 for further evaluation.	+ +
371	UST-0371-03	NA NA	JP-4 (Empty)		Removed	TNRCC review LSA. Sent to I&HW Division 8/1/95 for further evaluation.	7
371	UST-0371-04	NA NA	JP-4 (Empty)		Removed	TNRCC review LSA. Sent to I&HW Division 8/1/95 for further evaluation.	7
371	UST-0371-05	NA NA	JP-4 (Empty)		Removed	TNRCC review LSA. Sent to I&HW Division 8/1/95 for further evaluation.	+ +
371	UST-0371-06	NA	MOGAS (Empty)			TNRCC review LSA. Sent to I&HW Division 8/1/95 for further evaluation.	1
375	AST-0375-01	NA .	Diesel		Active	Backup Generator	1 -
375	AST-0375-02	NA	Empty (petroleum product purging)		Inactive	NA	1 7
375	AST-0375-03	NA:	Empty (petroleum product purging)		Inactive	NA	1 -
375	AST-0375-04	NA	Empty (petroleum product purging)		Inactive	NA	
375	OWS-375	NA	Maintenance Depot	1	Inactive	RFI planned The unit was used in the non-destructive inspection shop and was removed and is located in	T
375	SRU-375	NA			Removed	The unit was used in the hon-desauctive inspection step and with the Bidg. 361 LSA sent to TNRCC on 795. Closure approved in October 1997.	N 2
375	UST-0375-01	NA	Diesel		Closed	LSA sent to TNRCC on 7/95. Closure approved in October 1997.	1 2
375	UST-0375-02	NA .	Diesel				1
376	AST-0376-01	NA_	HCI	<u> </u>	Active	NA	1
376	UST-0376-01	NA	Diesel	 	Activa		
377	AST-0377-01	NA NA	Diesel	+	Active	Minor staining observed on pavement during VSI performed in 4/96.	
377	AST-0377-02	NA ·	Diesel	+	Active	Minor staining observed on pavement during VSI performed in 4/96.	
377	AST-0377-03	NA NA	Diesel	+	Active	Minor staining observed on payement during VSI performed in 4/96.	
377	AST-0377-04	NA NA	Diesel	+	Active	Minor staining observed on pavement during VSI performed in 4/96.	
377	AST-0377-05	NA_	Diesel	+	Active	Minor staining observed on pavement during VSI performed in 4/96.	
377 379	AST-0377-06 OWS-379	NA NA	Diesel	+	Active	••••••••••••••••••••••••••••••••••••••	<u> </u>
379	WRW-379	NA NA	Aircraft Corrosion Control	+	Active		!
385	OWS-385	NA NA	Aircraft Corrosion Control	+	Active	•	<u> </u>
	UST-0385-01	NA NA	Never Used	 	Closed	Closed. TNRCC letter 4/3/91.	
	1000001					Closed. TNRCC letter 4/3/91.	1 _1
385 385	UST-0385-02	NA .	Never Used		Closed	Closed. I NRCC letter 4/3/81.	1 3

Facility	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
ID	LICT COOL OF		PD680	Criteria	Closed	Closed. TNRCC letter of approval (PST-RPR)	2
391	UST-0391-01 UST-0391-02	NA NA	PD680		Closed	Closed. TNRCC letter of approval (PST-RPR)	2
391				 	Closed	Closed. TNRCC letter of approval (PST-RPR)	2
391	UST-0391-03	NA NA	PD680		Closed	Closed, TNRCC letter of approval (PST-RPR)	2_
391	UST-0391-04	NA NA	PD680		Closed	Closed, TNRCC letter of approval (PST-RPR)	2_
391	UST-0391-05	NA .	PO680	10 cc 25	Closed (C	Closed, TNRCC letter of approval (PST-RPR)	4
			Waste Paint Solvent 性神経性の情報を持ちませる。		Closed	Closed ATNRCC letter of approval (PST-RPR)	4
	**:UST-0391-07-		Waste Carbon Remover # All Car	· 持续的		Backup generator	1
395	AST-0395-01	NA NA	Diesei		Active	Closure status unknown.	7
395	UST-0395-01	NA NA	Diesel		Removed	UST location was identified from a map; no additional info, available	7
397	UST-0397-01	NA	Unknown		Removed		1
474	AST-0474-01	NA.	Diesel	<u> </u>	Removed	Closure pending TNRCC Review Closed as per letter from TNRCC on 10/92. Replaced with vaulted AST.	2
474	UST-0474-01	NA.	Diesel		Closed	(See SWMUTable E.2)	1
513 (414)	> ** AST-0513-01 ***	° ≥ 059/— ·~	Empty (Former contents PD680)		35 Inactive ₹	(See SWMU Table E.2)	5.1
6771 9, 513 (HASSE	201 AST-0513-02 \$5	**:059/ **		とはなる 高級の	⊮ Removed ট	IMOVING TO PRINCIPLO 317/1317MO 0707 BUTTON TOOSSOOT, COD CULTURE TO STATE OF THE PRINCIPLO STATE OF THE PRINCIP	1
513 10 - 38	AST-0513-03	< 1059/—; ₹	Empty (Former contents mixed oil) Not have been been contents mixed oil) Not have been been been been been been been be	南京江南京	4. Removed :	Moved to Building 317 (SWMU 076/- at new location. See SWMU Table E.2)	1
513	AST-0513-04	:/<059/	Empty (Former contents hydraulic fluid)	新新兴新州等48	inactive -	(See SWMU Table E.2) 特殊的特殊的特殊的	-
THE RESIDENCE OF THE SECOND	Creek attitude to build the French	Part Creaming		W. 15 W. 17	Security (2)	Submitted Partiel Facility Closure Plan Standard One Closure Report. Closure pending TNRCC	7
522	.≯. UST-0522-01.° i) ← 68 / — ¶),	Trichlorcethene	位于代史介绍	Removed	account to the second s	7
522	UST-0522-02 .1	68/_	Trichioroethane is:	35774	Removed	Submitted Partial Facility Closure Plan, Standard One Closure Report. Closure pending TNRCC approval.	1
535	AST-0535-01	NA.	JP-8		Active	Fuel for Jet Engine Testing	
535	AST-0535-02	NA NA	JP-8		Active	Fuel for Jet Engine Testing	1
535	OWS-535	NA NA	Test Stand		Active	Pumped to mobile HW tank and transported to EPCF.	0
535	WRW-535	NA NA	Test Stand		Active	Pumped to mobile HW tank and transported to EPCF.	1
545	OWS-545	NA NA	Soil Staging		Partially removed	Oil trap and related sump in storm system	0_
545	UST-545-01	NA .	Unknown		Unknown	UST identified on demolition and construction plans. 1962 work order issued for it (unclear if for removal or installation, No other information on installation was available. Tank located in area of former bollers. Removed during demolition and repair.	7
# # 611 c 3 64.	AST-0611-0120	008/	Waste Oil and Sealant	1454.444	inactive of	Closure Plan being prepared. Exact location unknown.	
617	OWS-617	NA.	Decon Pad		Active	Discharges into influent of old IWTP which eventually discharges to the EPCF.	
617	WRW-617	NA NA	Decon Pad		Active	Discharges into Influent of old IWTP which eventually discharges to the EPCF.	3
618	OWS-618-1	NA NA	Groundwater Treatment		Active		0
618	OWS-618-2	NA NA	Groundwater Treatment		Active		0
		NA NA	Groundwater Treatment		Inactive		0
618	OWS-618-3				Active		0
621	OWS-621-1	NA NA	Water Treatment		Inactive	Self-contained unit, the SRU was used in the former (WTP laboratory	Fair
621 623	SRU-621 AST-0623-01	NA NA	JP-5		Active	Closed, TNRCC letter	1
					A call up	1/9/96	1
623	AST-0623-02	NA .	JP-5	ļ	Active	NA	1
623	AST-0623-03	NA	JP-5		Active Active	Evidence of release	. 7
624	AST-0624-01	NA NA	Ferrous Sulfate			inside containment and seam between berm and pad. Evidence of release inside containment and seam between berm and pad.	7
624	AST-0624-02	. NA	Ferrous Sulfate		Active	Evidence of release inside containment and seam between berm and pad.	7
624	AST-0624-03	NA NA	Ferrous Sulfate		Active		3
624	AST-0624-04	NA	Chrome containing wastewater		Removed	Chrome reduction tank.	3
624	AST-0624-05	NA	Wastewater (following chrome reduction)		Removed	Neutralization tank 4100 was fed concentrated caustic acid.	
624	AST-0624-06	NA	Wastewater		Removed	Clear-well tank P4300.	- -
628	OWS-628-1	NA	Equipment supply		Inactive		1 - 1 -
	AST-0640-01	031/088 #	Empty (Waste Petroleum Distillate)	54 . 5. 100	Inactive .	NATE X SERVICE SERVICE AND ADMINISTRATION OF THE SERVICE AND ADMINISTRATIO	<u> </u>
645 A 153	OWS-845	3: 053/ ir	Engine Testing services and the services and the services and the services are services are services and the services are services are services and the services are servic	ተተለያ ጋምተለ	x∷ Inactive	To be removed and RFI planned * KASS/ \$250.	0
645	UST-0645-01	032/089	Used Oil	學習情	Closed	Final closure letter dated Oct 24, 1996, Closed as Risk Reduction Standard No 2, (See SWMU	2
CONTRACTOR STATES	UST-0645-02	NA NA	Diesei	<u> </u>	Closed	Final closure letter dated Oct 24, 1996. Closed as Risk Reduction Standard No 2. (See SWMU	0

Facility	Site ID	SWMU No.	Description	Action	Status	Comments	Category
645	UST-0645-03	NA NA	Diesel	Criteria	Closed	Final closure letter dated Oct 24, 1996. Closed as Risk Reduction Standard No 2. (See SWMU Table 3-7)	2
		ļ <u></u>			Unknown	Located on old figure. No other information known.	7
645	UST-0645-04	NA	JP-Fuel		Unknown	Located on old figure. No other information known.	7
645	UST-0645-05	NA	JP-Fuel	├ ──		Southwest and of Bldg outside.	7
645	WRW-645	NA	0	⊢ —	Active	Letter of closure submitted by TNRCC on 1/9/96.	7
647	UST-0647-01	NA	New Oil		Closed	Closure plan prepared under RRS #2	0
650 J 765	*** OWS-850**	"Y054/108 **	Engine Test Cell as the company of t	110 715 71 11 11 11 11 11 11 11 11 11 11 11 11	Inactive		
652 j	AST-0652-01	-/090	ONS TO SERVICE OF THE	1.25	Inactive	Associated with CWS-0852-017 (See SWMU Table E.2)	0
24 652 X 64 X	- OWS-652	24 054/ Yes	Engine Test Cell 3787924	なないまするる	" Inactive"	8 OWS to be removed and RFI planned (1999)	 0
652	OWS-652-10	×1-054/	Engine Test Cell and recommend the second second second second	会を変えない	🕫 Inactive 🖹	Located n of Bidg 652等的特殊的大学和学科学科学科学科学科学科学科学科学科学科学科学科学科学科学科学科学科学科学	-
652	OWS-652-9	054/	Engine Test Cell (###################################	शक्ष ५०%पुर	inactive ::	Located at Test Cell #9 40 and and an arrangement of the control o	
654	HYF-654	NA	Fuel for JP-4 Test Cells		Lines will be closed	Facility has been deactivated; pipelines were abandoned in place. Lines will be drained and grouted, and the system investigated in FY2000 in preparation of site closure.	
	UST-0654-01	NA .	ID 4 (Emphy)		Closed	Closed, TNRCC letter 2/2/98.	2
654 654	UST-0654-01	NA NA	JP-4 (Empty) JP-4 (Empty)	$\vdash \vdash$	Closed	Closed, TNRCC letter 2/2/98.	2
654	UST-0654-02 UST-0654-03	NA NA	JP-4 (Empty) JP-4 (Empty)	 	Closed	Closed, TNRCC letter 2/2/98.	2
					Closed	Closed, TNRCC letter 2/2/98.	2
654	UST-0654-04	NA NA	JP-4 (Empty)	 -	Closed	Closed. TNRCC letter 2/2/98.	2
654	UST-0654-05	NA NA	JP-4 (Empty)	<u> </u>	Closed	Closed, TNRCC letter 2/2/98.	2
654	UST-0654-06	NA	JP-4 (Empty)		Closed	Ciosed, TNRCC letter 2/2/98.	2
654	UST-0654-07	NA .	JP-4 (Empty)	ļ		Closed, TNRCC letter 2/2/98.	2
654	UST-0654-08	NA	JP-4 (Empty)		Closed	Closed. TNRCC letter 2/2/98.	2
654	UST-0654-09	NA	JP-4 (Empty)		Closed	Closed. TNRCC letter 2/2/98.	2
654	UST-0654-10	NA .	JP-4 (Empty)		Closed	Closed, TNRCC letter 1/9/96	2
654	UST-0654-11	NA	JP-4 (Empty)	L	Closed		2
654	UST-0654-12	NA	JP-4 (Empty)		Closed	Closed. TNRCC letter 1/9/98	2
654	UST-0654-13	NA.	New oil (Empty)		Closed	Closed. TNRCC letter 1/9/96	
.655	AST-0855-01	-/091	OWS Wastewater	84.4 A	Inactive	Associated with OWS-055501. (See SWMU Table E.2)	1
655	OWS-655-1111111	***/1101**	Engine Test Cell And	Marin Co. N	Minactive 🗟	To be removed and RFI planned	0
3000008583058740	> OWS-656	7 053V	Engine Test Cell	and all the	*** Active ***	Located SW of Bidg 655	1 -
1408	AST-1408-1	NA	Diesel		Active	Replaced UST	 '-
1414	OWS-0050-03	NA	CE Stormwater OWS		Unknown	This unit serves to collect dryweather flow in the storm sewer and may have a 1000 gallon holding tank	7
1414	OWS-1414-01	NA.	Washrack		Active	Concrete half circle located along the outside of northeastern end of Facility No. 1413. Plumbed to Facility No. 1418 in 1969 (not confirmed).	0
1414	OWS-1414-02	NA NA	Fuels washrack		Inactive	Located between fuel management building and the fuel truck parking area. Plumbed to Facility No. 1418 in 1969 (not confirmed).	0
1414	SRU-1414	- NA			Inactive	The unit was used to strip silver from reclaimed material.	NA .
1414	UST-1414-01	NA NA	Diesel		Removed	Tank appears on SA-ALC/EM tank listing.	0
1414	WRW-1414-01	NA NA	Washrack		Active	Concrete half circle located along the outside of northeastern end of Facility No. 1413. Plumbed to Facility No. 1418 in 1969 (not confirmed).	7
1414	WRW-1414-02	. NA	Fuels washrack		Inactive	Located between fuel management building and the fuel truck parking area. Plumbed to Facility No. 1418 in 1969 (not confirmed).	7
1417	AST-1417-01	NA.	Diesel		Active	Replaced LIST	
1417	UST-1417-01	NA NA	Diesel	_	Closed	Replaced with 6,000-gal, vaulted tank. Closure report submitted to TNRCC 9/95.	2
1417	OWS-1418	NA NA	Maintenance Facility		Removed		0
		NA NA	JP4		Removed	Closed (2/96)	1
1419	AST-1419-01	NA.	<u></u>		Lines will be	Secility has been deactivated: pipelines were abandoned in place. Lines will be drained and	1
1419	HYF-1419		Product Recovery		closed	grouted, and the system investigated in FY2000 in preparation of site closure.	7
1419	UST-1419-01		JP-4 Recovery (#24) Preference of the Control of th	grand di	Closed	Closure letter dated 31 Jan 1997. (See SWMU Table 3-7)	0
1420	OWS-1420	NA	Nuclear Weepons		Active	<u> </u>	7
1420	WRW-1420	NA .	Nuclear Weapons		Active	<u></u>	1
1429	AST-1429-01	NA	Aviation Fuel		Active	NA	1
1437	AST-1437-01	NA	Diesel		Active	Backup generator	

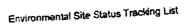
Facility	Su- ID	SWMU No.	Description	Action	Status	Comments	Category
iD	Site ID	SVMO No.	Description	Criteria	·	Site Closed TNRCC closed site on 1/20/98.	0
1443	UST-1443-01	NA	Diesel		Closed		1
1469	AST-1469-01	NA .	Diesel		Active	Replaced UST 1469-01 Closure letter received 20 Jan 1998. Replaced with AST-1469-01 6,000 gal vaulted tank.	7
1469	UST-1469-01	NA .	Diesel		Closed	Closure letter received 20 Jan 1996. Replaced with ACV PROS 9 Site closed for soils only. Groundwater contamination to be remediated under IRP in letter dated	
1484	UST-1484-02	NA	Diesel		Removed	10/8/91.	0
1493	UST-1493-01	NA.	Diesel	<u> </u>	Closed	Site Closed, TNRCC closed site on 10/30/96.	0 10
1501	35 AST-1501-01≪	*X* DAOL Sufe	Waste oil (hazardous)	CONTRACTOR	Active **	Minor staining observed on pavement during VSI performed in 4/96. (See SWMU Table E.2)	0
	7. 9 OWS-1501#. 93	** V_M1074	H/Shop, Automotive (Wash Rack)	oteverywith	*Removed*	RFI planned ***********************************	7
	21 UST-1501-01	G 000 500	Used Office and the state of th	Warter Compas	Closed A	Closure report submitted on 13 May-1998. Standard 2 closure proposed.	
	WRW-1501	NA	H/Shop, Automotive (Wash Rack)		Active		7
1501		NA -	Fueling for Mobile Trucks		Inactive	Facility has been deactivated; pipelines were abandoned in place.	<u> </u>
1504	HYF-1504		Fueling for Mobile (Tocks		 	Submitted CSA to TNRCC. Closure report recommended no further action. Letter of Closure	2
1504	UST-1504-01	NA NA	JP-4	ł	Closed	date 1/31/97.	
					Active	Backup generator, Closure status unknown.	1
1512	UST-1512-01	NA NA	Diesel	1	Active	Backup generator. Closure status unknown.	<u> </u>
1512	UST-1512-02	NA_	Diesel			Backup generator. Closure status unknown.	1
1512	UST-1512-03	NA	Dieset		Active	O Secret delinerator. Close a state o susceptibility of the control of the contro	0
% - 1516 <i>↔ 1</i> 5%	300 OWS-1516	<i>**</i> /116 ○	Maintenance Shop Telephone Telephone (1996) And Company of the Maintenance Shop Telephone (1996) And Company of the Company of	STANGE STANGE		A A A A A A A A A A A A A A A A A A A	0
1519	OWS-1519	NA NA	Washrack		Inactive		7
1519	WRW-1519	NA NA	Washrack		Active		1
1531	AST-1531-01	NA NA	Diesel		Active	NA	1 1
1531	AST-1531-02	NA NA	Diesel		Active	NA	
1531	AST-1531-03	NA NA	Diesel	1	Active	NA	
- 1331 -	A31:1031-03	130	C.10341	t —		Battery washrack located in Section C. A drain is located beneath the unit, but no sump was	0
1533	OWS-1533	NA NA	Washrack	1	Active	observed	<u> </u>
1533	WRW-1533	NA NA	Washrack		Active	Battery washrack located in Section C. A drain is located beneath the unit, but no sump was observed.	1
1534	OWS-1534	NA .	Section F, Maintenance		Active	Battery washrack used to wash lead-acid batteries. The water passes throughout what is reported as limestone to neutralize the water (with baking soda applies as an initial neutralizer)	0
1534	WRW-1534	NA	Section F, Maintenance		Active	Battery washrack used to wash lead-acid batteries. The water passes throughout what is reported as limestone to neutralize the water (with baking soda applies as an initial neutralizer).	1
<u> </u>	0115 4500 04	N/A	Marchause Dellan, Machanie	<u> </u>	Active	Forklift battery washrack.	0
1536	OWS-1536-01	NA NA	Warehouse Battery Washrack	 	Active	Forklift battery washrack.	0
1536	OWS-1536-02	NA.	Warehouse Battery Washrack	 -	Removed	PST closure report submitted to TNRCC for review on 19 Oct 1995.	7
1536	UST-1536-01	NA .	Diesel		Unknown	Becaling water from battery cleaning operation. Discovered during VSI/PSI based on interviews	,
1536	UST-1536-02	NA .	Battery cleaner washdown		Unknown	and visible cleanouts for tanks outside the building near where the washracks are located.	
1536	UST-1536-03	NA NA	Battery cleaner washdown	,	Unknown	Receives water from battery cleaning operation. Discovered during VSI/PSI based on interviews and visible cleanouts for tanks outside the building near where the washracks are located.	
1536	WRW-1536-01	NA NA	Warehouse Battery Washrack	I	Active	Forklift battery washrack.	1
				-	Active	Forklift battery weshrack.	1
1536	WRW-1536-02	NA.	Warehouse Battery Washrack		1		2
1537	AST-1537-01	NA NA	Petroleum	1	Removed	Closure pending TNRCC review	L
			Solvent	 			2
1537	AST-1537-02	NA.	Petroleum	1	Removed	Closure pending TNRCC review	
1337	A01-1001-02		Solvent	L	ļ		2
1537	AST-1537-03	NA	Petroleum Solvent		Removed	Closure pending TNRCC review	
1537	AST-1537-04	NA	Petroleum Solvent		Removed	Never Used. Closure pending TNRCC Review.	1
1537	AST-1537-05	NA	Petroleum Solvent		Removed	Never Used. Closure pending TNRCC Review.	1 Good
1537	SRU-1537	NA NA			Inactive	The unit was used in the administrative area during film processing records.	2
		NA NA	Petroleum Solvent		Closed	Letter of closure received June 1997 under Standard 1.	
1537	UST-1537-01	I NA	Lean Order of Table o				

Facility	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
1D	UST-1537-02	NA NA	Petroleum Solvent	Cillena	Closed	Letter of closure received June 1997 under Standard 1.	2
1537 1537	UST-1537-02	NA NA	Petrolaum Solvent		Closed	Letter of closure received June 1997 under Standard 1.	2
		NA NA	Petrolaum Solvant		Closed	Letter of closure received June 1997 under Standard 1.	2
1537	UST-1537-04				Closed	Letter of closure received June 1997 under Standard 1.	2
1537	UST-1537-05	NA NA	Petroleum Solvent		Closed	Letter of closure received June 1997 under Standard 1.	2
1537	UST-1537-06	NA	Petroleum Solvent	 -	Closed	Letter of closure received June 1997 under Standard 1.	2
1537	UST-1537-07	NA .	Petroleum Solvent			Battery washrack	0
1538	OWS-1538-01	NA NA	Warehouse Supply	<u> </u>	Active		1
1538	WRW-1538-01	NA NA	0		Active	Battery washrack.	1
1539	AST-1539-01	NA NA	Diesel		Active	NA	1
1539	AST-1539-02	NA NA	Diesel	<u> </u>	Active_	NA	1
1540	AST-1540-01	ŇA	Mogas		Active	NA	1
1544	AST-1544-01	. NA	Diesel		Active	Backup generator	2
1544	UST-1544-01	NA.	Diesel		Closed	Closed. TNRCC letter 3/19/96. Replaced with 1,000-gal. vault.	NA.
1552	SRU-1552	NA NA			Removed	Self-contained unit, the SRU was used in the former Government Printing Office.	1 1
1568	AST-1568-01	NA	Diesel		Active	Replaced UST 1568-01	 - '
1568	UST-1568-01	NA	Diesel		Closed	Clean closure report submitted to TNRCC. Replaced with 1,000-gal. vault. Site closed on 8/22/96.	1 0
1571	OWS-1571	NA NA	Waste Treatment Bidgs		Active		7
1571	WRW-1571	NA.	Wst Trmt Bldgs		Active		7
1575	UST-1575-01	NA NA	Hazardous Material		Unknown	North of the asphalt area at the "old Building."	
1575	UST-1575-02	NA NA	Hazardous Material		Unknown	Receives emergency spillage from the building. Reportedly new FRP construction.	<u> </u>
		NA NA	Hazardous Material		Unknown	Receives emergency spillage from the building. Reportedly new FRP construction.	11
1575 1586	UST-1575-03 AST-1588-01	048/098 ×		TO THE	Active	Holds waste JP-8 captured by OWS-1588-01. Corresponds to OWS-1588. (See SYMU Lable	1
4600		056/121	Logistic Facility	A . 16 1740	Inactive	一种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	0
1586	OWS-1586			75 27 28 25 46	Active	NA .	1 1
1588	AST-1588-01	NA .	Diesel	<u> </u>	Closed	Letter of Closure received from TNRCC 3/96. Clean site. Replaced With 1,000-Gallon Vault	11
1588	UST-1588-01	NA.	Diesel	 _	Active	Bulk Storage	7
1592	AST-1592-01	NA NA	JP-8	└ ──		Bulk Storage	7
1592	AST-1592-02	NA.	JP-8	L	Active		7
1592	AST-1592-03	ŅĀ	JP-8		Active	Never Used	1 1
1592	AST-1592-04	NÁ	JP-4		Inactive	Closure pending TNRCC	
1592	HYF-1592	NA .	Vehicle and Aircraft Fueling		Active	The facility is located in the northern portion of Reuse Parcel E. The facility consists of 18 hydrant pits, 2 fill stands, and 6 offloading racks. There are no plans for removal. A VSI performed in March 1996 indicated minor staining at this hydrant fueling system. Corresponds to tanks UST-1592-01 through -04; AST-1594-01, and UST-1592-01.	0
1592	OWS-1592	NA NA	Hydrant Fuel		Active		7
1592	UST-1592-01	NA.	Diesel		Closed	Closure July 1997, NFA.	
1592	UST-1592-02	6 /097-07	Waste UP-8 with prosted to the text of the profession of the control of the contr	Taj desugane	C. Active	Overflow Tenk/RFA states: 11,000-gallon tank/TNRCC regulring RFI (See SWMU Table 3-7)	7
1592	UST-1592-03		Reclaimed JP-8業員長の影響等をあるといっています。	15-0 1-8-01 5-4	Active 4	Product Recovery/TNRCC requiring RFI (See SWMU Table 3-7)	
1592	UST-1592-04		Reclaimed JP-4	31.3.54	Active	Overflow lank for OWS, Closure status unknown/TNRCC requiring RFI (See SWMU Table 3-7)	7
1593	*UST-1593-01		JP-4 Waste	aprile Style State.	Closed	NFA letter received by TNRCC on 4/9/91 under PST. (See SWMU Table 3-7)	2
1594	AST-1594-01	NA	JP-8		Active	Steining observed on gravel during VSI performed in 4/96. Associated with HYF-1594.	 '-
1594	UST-1594-01	2 -/101 A	P4 (14) (14)		Closed	Received TNRCC closure letter 23 April 1998. UST replaced with 1,000-gal, vaulted tank. TNRCC requiring an RFI	7
400	AST-1600-01	NA NA	Diesel		Active	NA	
1600					Active		0
1601	OWS-1601	NA NA	Aircraft Support, Equipment Shop		Active		7
1601	WRW-1601	NA NA	Aircraft Support, Equipment Shop	 	Active	NA	11
1610	AST-1610-01	NA.	Diesel			NA	1
1610	AST-1610-02	NA_	Diesel	L	Active	IVA	0
1610	OWS-1610	NA_	Maintenance Hangar		Active	Closure report submitted, TNRCC letter of closure received Feb 1998.	2
1610	UST-1610-01 UST-1610-02	NA NA	Diesel Diesel		Closed Closed	Minor soil contamination. Does not require a Remediation Action Plan. No further action letter	2
					Active	received on 9/92 from TNRCC.	1
1610	WRW-1610	NA .	maintenance hanger				

Facility	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
1612	SRU-1612	NA NA			Inactive	The unit was used in the former graphics laboratory.	NA NA
1614	AST-1614-01	NA	Diesel		Active	Replaced with 250 GAL AST. TNRCC reviewing Closure site Assessment Report submitted on Apr 95.	2
1614	UST-1614-01	, NA	Diesel		Closed	Replaced with 250-gal AST, TNRCC reviewing Closure Site Assessment Report submitted on Apr 95, and site closed.	2
1618	HYF-1618	NA.	Aircraft Fueling		Lines will be closed	This facility, corresponding to IRP S-5 and tanks UST-1618-01 through 018, has been removed. No information on piping was available. Lines will be drained and grouted, and the system investigated in FY2000 in preparation of site closure.	
1618	UST-1618-01	33/	JP-4 83, \$1.58 (*\$8,000 \$25.00	20#33#\$#####	Closed	Closed, No further action, APART APART APART APPROXIMENT APPROXIME	2 2
1618	UST-1618-02	· 33/ ·/	JP456806896688666673666687876686998768866686	机抑制液切除	Closed -	Closed. No further action. 1666 Sept. 1889	2
1618 - 34	UST-1618-03	3/ 33/ 34k	JP-44-Principles and resolution of the second continuous second	三种 多种种	Closed 4	Closed: No further action.	2
1618	101 UST-1618-04	// *33/	1b 4 days por his safe was a second as a new layer as he had as he had a	成于为1936年本	F Closed	ICIOSAGIANO TURTNAR ACCIOTATA	1 2
1618	UST-1618-05	- 33/∵'	Waste Calibration Fluid.	海海 持续证券	Closed	Closed. No further action.	2
1618	UST-1618-06	Wes 33/-1996	p4 months were recommended to the control of the co	2- STOWN Draw	Closed :	Closed No further action (1986)	2
1818	UST-1618-07	33/	Weste Calibration Fluid	THE CONTRACTOR	Closed :	Closed, No further action, Control and Con	1 2
1618	UST-1618-08	33/	Waste Calibration Fluid	May Miles C	Closed	Closed. No further action.	2 2
1618	UST-1618-09	NA	Empty (Mogas)		Closed	Closed. No further action.	2
1618	UST-1618-10	NA	Empty (Mogas)		Closed	Closed. No further action.	
1618	UST-1618-11	NA.	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-12	NA.	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-13	NA NA	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-14	NA NA	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-15	NA.	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-16	NA NA	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-17	NA NA	JP-4	 -	Closed	Closed. No further action.	2
		NA NA	JP-4		Closed	Closed. No further action.	2
1618	UST-1618-18			 	Active	NA	1
1625	AST-1625-01	NA _	Diesel	├ ──		Clean Closure Site Assessment Submitted on Sept 92	1
1625	UST-1625-01	NA NA	Diesel	<u> </u>	Closed		1
1626	AST-1626-01	NA NA	Diesel		Active	NA City of an 4/46/08	2
1650	UST-1650-02	NA _	Diesel		Closed	Site closed on 1/16/98. SWMU Closure report sent to I&HW Jul 95.5 Closure pending approval.	2
1655	UST-1655-01	** 47/102 ·**	Petroleum Distillate ************************************	2007/09/2004	* Removed *		2
1655	UST-1655-02	NA NA	Diesel		Removed	Closure pending	2
1855	UST-1655-03	47/103/4	Spent Petroleum Distillate		Removed ?	SWMU Closure report sent to I&HW Jul 95. Closure pending approval.	1
1674	AST-1674-01	NA	Diesel		Active	NA	7
1674	UST-1674-01	NA	Diesel		Removed	Closure pending	
					Abandoned-In	Remove only, Limited Site Assessment submitted to TNRCC on 4/15/96. Does not require	2
1674	UST-1674-02	. NA	Diesel		Place	Remedial Action Plan. Minor soil contamination. Letter of closure received Feb 2. 1998	
1679	AST-1679-01	NA	Diesel		Active	Replaced UST	1 1
1679	UST-1679-01	NA	Diesel		Closed	Letter to TNRCC 8/92. No contamination, Closure letter received 20 Jan 98. Replaced with Vaulted AST	2
1680	UST-1680-01	NA	Diesel		Closed	Closed 9/96	1
1740	AST-1740-01	NA NA	Diesel		Active	NA	11_
1740	UST-1740-01	NA NA	Diesel		Closed	Site Closed 10/23/92, Tank replaced with vaulted AST.	7_
3016 1745	OWS-3016	056/ :-	Equipment Supply (September 2015) A Company of the	Carlot water	Inactive	Closure plan submitted in 1997	0_
					Closed	TNRCC letter of closure received on 10 Jan 1998. PST closure.	1
3016	UST-3016-01	NA NA	Empty (Diesel)		Active	NA .	1
3030	AST-3030-01	NA NA	Die set		Active		0
3096	OWS-3096	NA	Hazard Storage				7
3096	WRW-3096	NA	Hazard Stor, Bse		Active	Self-contained unit, the SRU is used in the photo lab of the AF News organization.	Good
3107	SRU-3107	NA .		L			1
3180	AST-3180-01	NA	Dieset		Active	Backup Generator	T
3180	AST-3180-02	NA.	Diesel		Active	NA	1
3180	UST-3180-01	NA NA	Diesel		Closed	TNRCC letter of closure received on 20 Jan 1998.	<u> </u>

Facility ID	Site ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
3643	UST-3643-01, 02	NA	Mogas		Closed	Two tanks were discovered during SS-EBS and associated with a former gasoline station. Tanks were ebandoned in place and removed in 1977. The tanks were considered scrap metal by TNRCC. A RFI was conducted, and a closure report was submitted indicating NFA. The site was closed in 1997.	
3660	UST-3660-01	NA	Diesel		Closed	Letter of closure was received on 31 Oct 1997.	0
3760	OWS-3760	NA.	Red Horse Vehicles Wash		Active		7
3760	WRW-3760	NA NA	Red Horse Vehicles Wash		Active		
3761	OWS-3761	NA .	Red Horse Vehicle Maintenance		Active		0
		NA NA	Diesel		Closed	Clean Closure. Letter from TNRCC on Jan 95.	11
3786	UST-3786-01	NA 49/	Used Oil Section with Annie State Court Selection of Court Selection (Court Selection	103012000 oc	No Closed 64	Approved Site Closure by TNRCC on 4/7/95.	2
<u> </u>	UST-3794-01			237 Mg (D.G. 91. 1.4	Active		0
3828	OWS-3828	NA	Warehouse Supply Equipment Depot		Active		7
3828	WRW-3828	NA	Warehouse Supply Equipment Depot		ACUVE	UST shows up on Base Plan in 1962; however there are no records of installation or removal.	7
3830	UST-3830	NA	Unknows		Unknown	There is some question to its actual existence.	1
3832	AST-3832-01	NA	Diešel		Removed	NA	
3832	UST-3832-01	NA	Diesel		Closed	TNRCC letter of closure received on 10 Jan 1998. PST closure. Tank replaced with vaulted AST.	1
10998	AST-10988-01	NA NA	Diesel		Active	NA	11
10998	HYF-10998	NA NA	Vehicle Fuel Station			This facility is located east of Building 375. Fuel is unloaded from this tank into large vehicles for transport. There are no plans for removal. A VSI performed in March 1996 indicated minor staining at the hydrant fueling system.	<u> </u>
10998	OWS-10998	NA .	Fueling Station		Inactive		0
1564	AST-1564-01	. NA	Diesel/Gasoline		NA NA	Tank not on Base supplied Tank list, but was noted during the VSI/PSI. Tank is elevated on a steel frame and used for vehicle refueling. Divided tank contains 300 gallons of Diesel and 200 gallons for Gasoline.	1
330	AST-0330-01	NA	Diesel		Active	NA	1
332/343	UST-0332-01(2)	NA NA	JP-4		Removed	IRP Site S-8.	2
332/343	UST-0332-07(2)	NA.	JP-4		Removed	IRP Site S-8.	2
		NA NA	JP-4		Removed	IRP Site S-8.	2
332/343	UST-0332-03(2)				Removed	IRP Site S-8.	2
332/343	UST-0332-04(2)	NA	JP-4				2
332/343	UST-0332-05(2)	NA	JP-4		Abandoned in Place	IRP Site S-8. ;	
332/343	UST-0332-06(2)	NA .	JP-4		Abandoned in Place	IRP Site S-8.	2
332/343	UST-0332-07(2)	NA	JP-4		Abandoned in Place	IRP Site S-8.	2
332/343	U\$T-0332-8(2)	NA.	JP-4		Abandoned in Place	IRP Site S-8.	2
345 (behind 331)	AST-0345-01	NA	Catibration Fluid		Active	NA .	1
345 (behind 331),*	AST-0345-02	- 058/×	Spent Calibration	S. A. W	Active	(See SVVMU Table E.2)	1
355	AST-0355-01	NA .	Diesel		Active	Supplies fuel to sewer lift backup generator. Appears to be a tank within a tank design unit.	1
535	AST-0535-03	NA.	Waste JP-5		Active	Temporary holding tank	1
535	AST-0535-04	NA NA	Waste JP-5		Active	Temporary holding tank	- ' -
535	AST-0535-05	NA NA	Empty (never used)		Inactive	Never used	1
618	AST-0618-01	NA NA	Conteminated Groundwater		Active	Pert of treatment system inside building. Tank T-018	1
618	AST-0618-02	NA .	Contaminated Groundwater		Active	Part of treatment system. Tank T-01A	11
618	AST-0618-03	NA	Contaminated Groundwater		Active	Part of treatment system.	1

Facility ID	Ske ID	SWMU No.	Description	Action Criteria	Status	Comments	Category
618	AST-0618-04	. NA	Treated Groundwater	0	Active	Part of treetment system	1
618	AST-0618-05	NA	Caustic		Active	Part of treatment system inside building.	1
618	AST-0618-06	-NA	Hydrogen Peroxide		Active	Joint containment system for peroxide tanks. Evidence of reseating/repairs to containment walls and floor of the mein stab.	1
618	AST-0618-07	NA	Hydrogen Peroxide		Active	Joint containment system for peroxide tanks. Evidence of reseating/repairs to containment walls and floor of the main slab.	1
618	AST-0618-08	NA	Contaminated Wastewater		Active	Surge Tank	3
618	AST-0618-09	NA	Contaminated Groundwater		Active	Joint containment system (outside) with peroxide tanks.	1
618	AST-0618-10	NA	Treated Groundwater		Active	Joint containment system (outside) with peroxide tanks.	1
618	AST-0618-11	NA	Contaminated Groundwater		Active	Joint containment system (outside) with peroxide tanks.	1
618	AST-0618-12	NA	Contaminated Groundwater		Active	Joint containment system (outside) with peroxide tanks.	1
630	AST-0630-01/	012/132	Nonhazardous sludge		, Active	Sludge Holding Tank	. 1
632 A	AST-0832-014/	084/	Acid, metals waste	374176	Active	Pump released material into system or EPCF	5 of 1 o
632	AST-0832-02	085//	Alkaline metal waste	NOW THE	Active	Purpo released material into system or EPOF	1
632	AST-0832-03	085/—	Chrome, waste	*1444	Active	Pump released in the second sec	- 1
632	AST-0632-04	NA:	Hydrogen Sulfate		Active	Release residuals in containment observed.	3
632	AST-0832-05	· 081/ ;	Stripper Waste		Active	Pump released material into system or EPCF	11
632	AST-0632-06	NA	Caustic		Active	Pump released: material into system or EPCF	1
632	AST-0632-07	. NA	Ferrous Sulfate Solution		Active	Release residuals in containment observed.	3
632	AST-0632-08	NA	Sodium Hydrosulfide		Active	Release residuals in containment observed.	3
638	AST-0638-01	NA	Dieset		Active	Leak observed from connection during VSI/PSI	2
638	AST-0638-02	NA	Diesel		Removed	Removed prior to VSI/PSI. New one likely replacement.	2
639	AST-0639-01	NA	NaHS		Active	Have mercury manometers.	3
639	AST-0639-02	NA	NaOH		Active	Have mercury manometers.	3
639	AST-0639-03	NA	H2SO4		Active	Have mercury manometers. Evidence of a former release in containment and there are cracks in the liner material	3
639	AST-0639-04		Empty (formerly H2SO4)		Inactive	Scheduled to be removed in 1997. Heavy staining and limited corrosion noted. This tank was in a containment with 4 other tanks.	7
639	AST-0639-05		Empty (formerly NeOH)		Inactive	Scheduled to be removed in 1997. Heavy staining and limited corrosion noted. This tank was in a joint containment with 4 other tanks	7
639	AST-0639-06		Empty (formerly lime)			Scheduled to be cleaned in 1997 for abandonment in place. Heavy staining and some concrete corrosion noted.	7



							Category
			·			Comments	1
_			Description	Action Criteria	Status	Bio-slurping/bio-venting system was installed in August 1998 and is currently being field tested	6
Facility	Site ID	SWMU No.				Bio-slurping/bio-vertility system	7
10	JAC 15		Colincation Field	Į.		and monitored.	7
	LOC-01	NA.	Building 348 Groundwater - Calibration Fluid		1	Anditional investigation required	7
	FO2-0:		Housing Area Scil - Pesticides		ļ	Additional investigation required	+ 7
	1.OC-62	NA .	Bungalow Area Soil - Lead	↓	 	Additional investigation required	+ 3
	LOC-03	NA	Building 58 - Formar Entomology Shop		 	Decon & Plug System	+
	LOC-04	NA	Building 347 - Mercury in Floor Drains	<u> </u>		Additional investigation required	1 7
	LOC-05	NA NA	Building 347 - Mercury 117	 		Additional investigation required	1
	LOC-06		Busding 310 - Floor Drain			Additional Investigation required	
	LOC-07	NA	Building 324 - Old Heating System Former Radium Paint Shops, Bldgs, 324 and 326			Desimanently plug lines. Re-route at game	
	LOC-08	NA	Former Radium Paire Shope, 5.75			Treatment currently in progress.	
	LOC-09	NA _	Industrial Waste Collection				
	LOC-10	NA	1500 Area	1			
	LOC-11		Building 375 Cleaning Room				
	LOC-12		Ramp 9 Soil Contamination				
	LOC-13		Building 351 Plating Shop				
	1		Building 3752 Auto Hobby Snop				
	LOC-14						



			- Alan	Action Criteria	Status	Comments	7
actility	Site ID	SWMU No.	Description	Criteria	Abandoned	Heavy staining and some	+
Ю		NA .	Empty		in place	concrete corrosion noted.	7
639	AST-0839-07		(formerly FeSO4)		Inactive	Scheduled for removal in 1997. Heavy staining and limited corrosion noted. This tank was in a joint containment with 4 other	
	AST-0639-08	NA	Emply (formerly NaOH)			tanks.	7
539	A31-000 V		Empty		Removed	corrosion noted. This tank was in a junit control	7
539	AST-0639-09	NA	(formerly NaOH)		Removed	Heavy staining and limited corrosion noted. This tank was in a joint containment with 4 other tanks.	7
	AST-0839-10	NA	Empty (formerly NaOH)		 	Heavy steining and limited corrosion noted. This tank was in a joint containment with 4 other tanks.	
639		NA.	Empty	\	Removed	Corrosion noted. This tank was in a joint containment with 4 other tanks.	7
639	AST-0639-11	NA.	(formerly NaOH)		Removed	corrosion noted. Thus tank was in a joint control	7
639	AST-0639-12	NA	(farmerly H2SO4)		Removed	Heavy statining and firmled corrosion noted. This tank was in a joint containment with 4 other tanks.	
	AST-0839-13	NA.	(formerly H2SO4)		+	Heavy staining and limited corrosion noted. This tank was in a joint containment with 4 other tanks	
639	ASTACOUTE	 	Emety		Removed	and limited corresion noted. This tark was in a joint	7
639	AST-0639-14	NA.	(formerly H2SO4)		Removed	B10 III. 100 III.	1
639	AST-0639-15	NA.	(formerly H2SO4)		Inactive	Located on the North	$-\frac{1}{2}$
		NA.	Unknown			Guitside of TC 45 Storage room north of T63. Orains discharge to EPCF. Floor is stained. Storage room north of T63. Orains discharge to EPCF. Floor is stained.	2
350	AS1-0650-01		(likely POL or solvent) Mix waste oil		Active	Storage room north of 163, Draits Gazetting to EDCE Stoor is stallned.	2
652	AST-0652-02	NA NA	Waste of		Aciye	Storage room north of 163. Crash Storage Finor is stained.	
652	AST-0652-03	NA NA	Lube Oil		Active	Storage room north of 163 Drains discharge to EPCF	-
652	AST-0652-04		Solvent		Active	Tank is ceiling mounted outside fourth to the root to EPCF. Floor is stained.	
852	AST-0652-05	NA.			Active	Room between T56 and Prep 56, Drains discharge to EPCF. Floor is stained. Room between T56 and Prep 56. Drains discharge to EPCF. Floor is stained.	3
	AST-0652-06	NA	Unlabeled				2
652	AST-0652-07	NA	Waste POL		Adive	Communication TSG and PRO DO. Pillor to State of the state of	2
652	AST-0652-08	NA	PD 880 Solvent		Active	Room between T56 and Prep 56. Floor is stained. Room between T56 and Prep 56. Drains discharge to EPCF. Floor is stained. Room between T56 and Prep 56. Drains discharge to EPCF. Mounted on ceiling outside the room between T56 and Prep 56. Drains discharge to EPCF.	1
652	AST-0652-09	NA NA	23699 Oil		Active	Room deliver the countries the room between 156 and Prep 56. Drams discharge	1
652	AST-0652-10	- NA	1010 OI		Active	Mounted on ceiling outside the room between 155 and Prep 58. Mounted on ceiling outside the room between 155 and Prep 58.	7
652		NA.	PD 680 Solvent		Active	Mounted on ceiling outside the from between CPCF. Floor is stained. Oil room for Test Call 58. Drains discharge to EPCF. Floor is stained.	
652	AST-0652-11	NA.	1010 Oil		Active	Oil room for Test Cell So. Craims Secharge to EPCF. Floor is stained.	
552	AST-0652-12		7808 Oil		Active	Oil room for Test Call 58. Drains discharge to EPCF. Floor is stained. Oil room for test cell 58. Crains discharge to EPCF. Floor is stained. Located in shop and Test Cell 7-53. Drains discharge to EPCF. Floor is stained.	-
652	AST-0652-13		Hydraule Oil		Active	It served in short and 1651 Upit 1505 St.	
652	AST-0852-14		23699 Oil		Active	Hydraulic reservoir for Cests 58 4 55	l a
652	AST-0652-16	NA NA	Hydraulic Oil			Eastside of Coll 60	
655	AST-0855-02	NA.	Preservation Oil	1	Active	Floor is stained.	- 1 :
	AST-0655-03	. NA	(1010)			East side of Call 60.	
655	AS1-000-0		Lubrication Of		Active	Floor is stained.	
655	AST-0655-0	, NA	(7606)		Unimo	Fuel emergency	
•		, N	Diesel		1		
563	AST-0003-0	<u> </u>	Central Waste Staging Facility		Inch/		
anneal of the second	THE TUS WIL	15 H 014	MAIN PARTIES SOCIETY		Ircuv		L
MARKET	OWS- 513	N	Central Waste Starping Facility		Activ	overflowing reported to frequently occur.	
Lot 513			Central Waste Staging Facility	l		The second secon	
Lot 513	WRW- 513	, ~	V VOID 11-11-11-11-11-11-11-11-11-11-11-11-11-		Inacti	- to the second stations	
	UST-PAD35	71 N	A Fuel)nacti		
Ped 35	UST-PAU35	<u>~;</u>	F. of		Inact	Former structured refueling stations	CENTRAL PROPERTY
Pad 35	UST-PAD35	22 - \ \	A Fuel	+	Inect	Former already reducting stations. Former already stations. Former a	100
Pad 35	UST-PAD36	-33 N	A Gual	Mariana Company and Assessed	116 PAL CONTRACTOR		100
Ded 35	UST-PAD35	04 1		HILL THE PARTY OF THE PARTY.			ER ELECT
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SITE S-4 GROUNDWATER

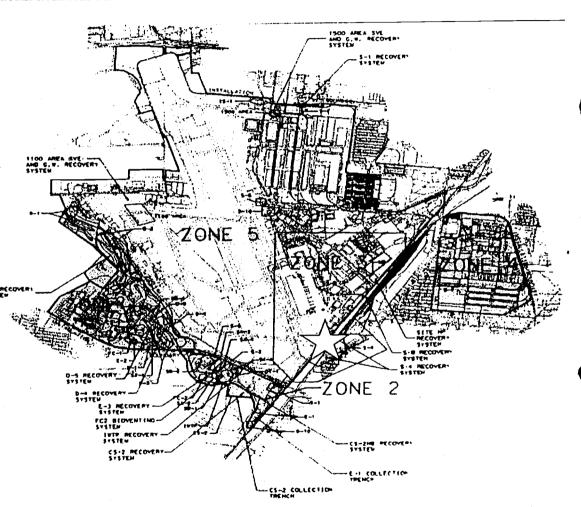
CORRECTIVE MEASURES STUDY ADDENDUM



Site S-4 Location



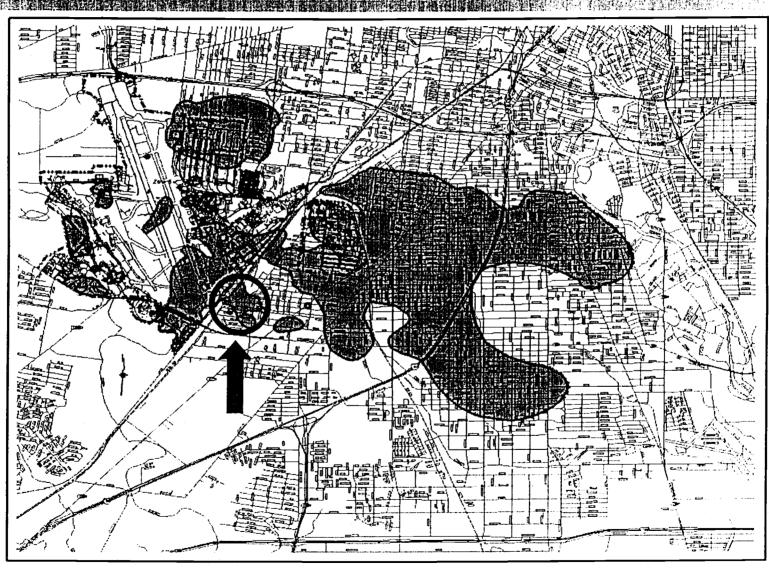
- Southeastern portion of Kelly AFB industrial area.
- Shallow groundwater contamination extends approximately 870 yards from base boundary.
- Shallow groundwater average depth 20 feet below ground surface.
- Shallow groundwater not used for drinking.





Site S-4 Location







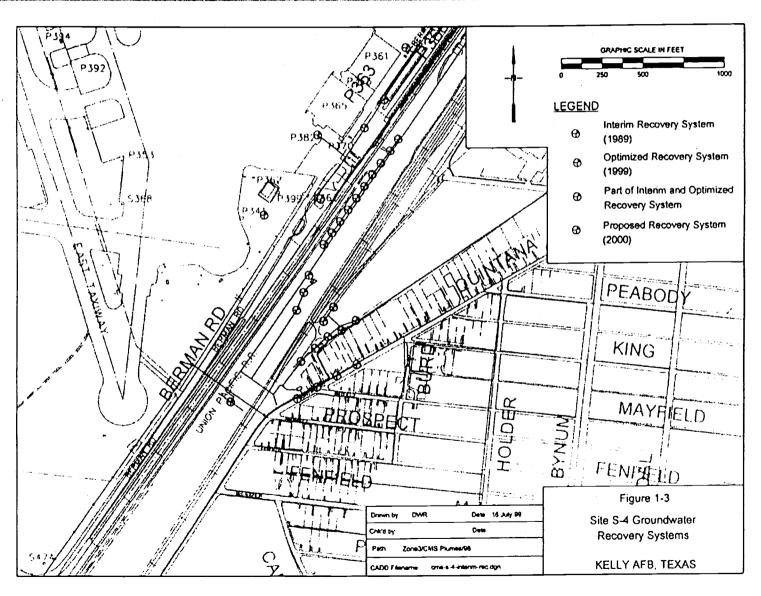
Site S-4 History



- 1988 City Culvert project halted during construction because fuel discovered in trenches.
- 1989 Interim system installed off-base to remove fuel (14 Recovery Wells).
- 1993 Remedial Investigation (RI) receives TNRCC approval and solvent contamination is found.
- 1995 Interim system installed off-base to contain solvent contamination (10 Recovery Wells) and trench.



Site S-4 History





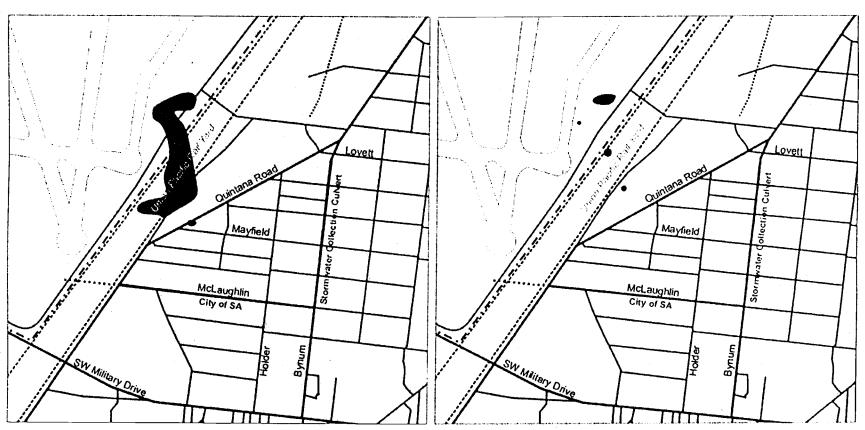
Site S-4





1991 FreeProduct

1997 Free Product





Site S-4 History



- 1996 Feasibility Study (FS) receives TNRCC approval.
 - Interim system already in place (24 recovery wells and trench).
 - Culvert Kelly AFB joint project with City to install culvert and provide a barrier to reduce groundwater flow to the southeast.
 - Monitoring of system effectiveness.
- 1997 1999 Interim system undergoes optimization
 - Use new technologies to improve system.
 - System to be started November 15, 1999.
- 1999 Fuel clean-up completed, 14 wells abandoned.



Site S-4 Corrective Measures Study (CMS) Addendum



- Kelly AFB submits letter to TNRCC in 1998 requesting an Addendum to the FS.
- Components of Addendum:
 - Delineate extent of the contamination.
 - Collect and compile 5 years of data.
 - Update model using new data.
 - Evaluate new technologies not previously available during
 FS to speed clean-up.



Site S-4 Corrective Measures Study (CMS) Addendum



Findings of the Addendum, cont.

- New Technology
 - May not be as reliable as pump and treat.
 - Difficult to implement off-base.
 - Does not change clean-up time.
 - Much more expensive.
- CMS, additions to the FS
 - Optimized pump and treat system.
 - 600 foot horizontal well off-base.
 - Monitoring system more extensive.

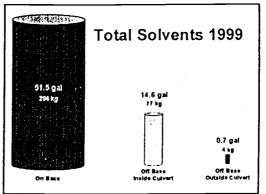


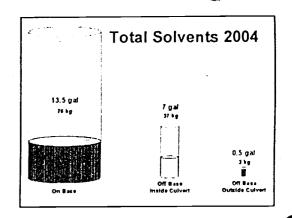
Site S-4 Corrective Measures Study (CMS) Addendum

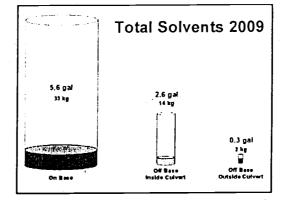


- Updated Model
 - Contaminant movement has stabilized.
 - Clean-up times from the FS have decreased offbase.
 - 19 years past culvert
 - 26 years between culvert and base boundary
 - CMS system will remove more contaminant mass than the FS system.
 - More recovery wells off-base increase contaminants off-base and does not reduce clean-up times.

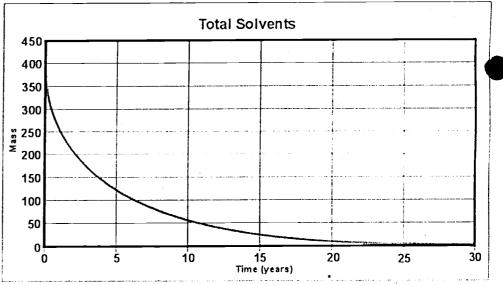








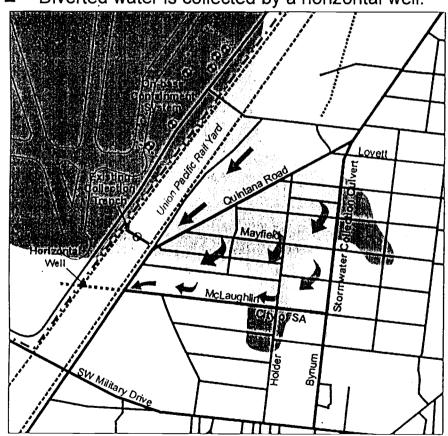
	Cleanup Technology	Cleanup Time Frame	Area
On Base	Pumpland Treat	28/5.years	200 acres
Off Base Inside Barrier	Pump and Treat	25.7 years	82 acres
Off Base (4) Outside Barrier	Monitored Natural Attenuation	19 years	11 acres

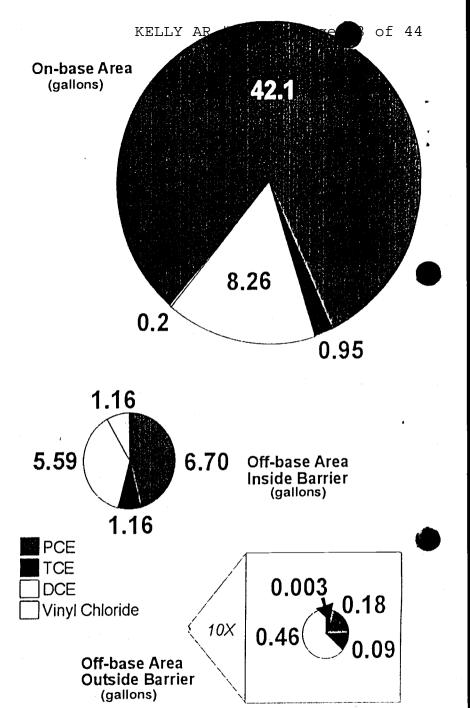


Site S-4 Groundwater Flows

How the culvert/barrier works

- The culvert acts as a barrier to natural groundwater flow.
- Culvert creates an artificial gradient.
- Ground-water moves toward the base boundary .
- Diverted water is collected by a horizontal well.





FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE