



KELLY AFB
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 3288

KELLY RESTORATION ADVISORY BOARD
TECHNICAL REVIEW SUBCOMMITTEE
MEETING AGENDA

Tuesday, 26 September 2000, 6:45 P.M.
 St. Mary's University, Garni Science Hall

Prior to the TRS meeting TRS Community members are encouraged to attend a TAPP Contractor Pre-Performance Review. The Review will start at 6:30 P.M.
Note the TRS meeting will start at 6:45 P.M.

I. Introduction	6:45 - 6:55	Dr Lené
A. Agenda Review and Handouts		
II. Relative Risk Rating Review	6:55 -7:30	Mr. Ryan
III. Administrative	7:30 - 7:50	Dr Lené
A. BCT Update		
B. Spill Summary Report		
C. Documents to TRS/RAB		
D. Action Items		
E. Agenda/Location/Time of Next TRS Meeting		
IV. Adjournment	7:50	

Sept. 2000

MEETING MINUTES

KELLY AFB TECHNICAL REVIEW SUBCOMMITTEE (TRS) TO THE RESTORATION ADVISORY BOARD (RAB)

26 September 2000, St. Mary's University, Garni Science Hall
Dr. Lené, TRS Chairman

- I. Introduction:** The TRS meeting began at 7 p.m. Attachment 1 is the attendance report.
- II. Relative Risk Rating Review:** Mr. William Ryan, Air Force Base Conversion Agency, asked the committee if they had any questions on those sites rated High. The committee agreed the sites were correctly rated High. The sites rated Medium were discussed individually. Most questions focused on what activities were conducted at each and where it was located. The committee agreed the sites rated Medium were correctly rated. The committee also agreed not to vote on or consider those sites transferring to Lackland.
- A. Discussion**
- Q. Mr. Quintanilla asked why the low-level radioactive material and waste storage sites were not on the Relative Risk Rating chart.
- A. Mr. Ryan explained that the Relative Risk Rating listing is only for Installation Restoration Program sites.
- Comment: Mr. Quintanilla stated he was concerned that low-level radioactive sites with little risk to the neighborhoods would be cleaned up before the neighborhoods. Money should be spent on the neighborhoods first.
- Q. Mr. Mark Weegar, Texas Natural Resource Conservation Commission, asked what the problem was with cleaning up all the sites at the same time.
- A. Mr. Quintanilla replied the worst sites should be cleaned first and should receive all the monies.
- Q. Mr. Quintanilla asked if BRAC funds were being used to clean the low-level radioactive sites.
- A. Mr. Ryan said yes.
- Comment: Mr. Weegar pointed out the relative risk rating was a budget tool used only when there was a shortfall of funds.
- Q. Mr. Lampright asked if the cleanup at other sites would speed up if the funds used on the low-level radioactive sites were shifted to other sites.
- A. Mr. Ryan told him that we have the funds to ensure that each site stayed on track and on the regulated cleanup sequence.
- B.** The committee voted to recommend that the RAB accept the Relative Risk Ratings as listed in Attachment 2.
1. Mr. Quintanilla will present a dissenting opinion.
- III. Administrative**
- A.** Base Conversion Team (BCT) handouts were presented to Dr. Lené. (See Attachment 3)
- Mr. Ryan told the committee the BCT meeting had four highlights.
1. Delivery of the Zone 4 Remedial Investigation (RI) for off-base and on-base contamination is expected to be delivered late in October 2000 to the Texas Natural Resource Conservation Commission.

2. The TRS discussed the methodology used to close and abandon fuel hydrant systems.
 - Q. Mr. Quintanilla asked how aircraft would be fueled with the systems shut down.
 - A. Mr. Ryan said the system on the west side of the runway would continue to be in-use and the east side of the runway would be serviced by a new system installed by GKDA tenants. Everyone was reminded that the new owners/tenants could not use the old Air Force system.
 3. The combined Zones 2 and 3 RI on soil and groundwater is expected to be delivered in November.
 4. The additional investigation data of possible contamination sources north of the base may be ready as early as two weeks. Mr. Ryan stated it would be released to the regulators and the public as soon as it was available.
- B. Spill Summary Report: There were no spills during the month of August 2000. (See Attachment 4)
- C. Documents to TRS/RAB: There were five new documents. (See Attachment 5)
- D. Action Items: The Air Force will check on the appropriateness of listing and rating the Low Level Radioactive Material and Waste Storage Sites on the relative risk rating chart.
- E. Next TRS meeting: The next TRS meeting will be held 14 November 2000 at 6:30 p.m. in St. Mary's Garni Science Hall. *Note: The Committee agreed not to hold a TRS meeting in October in lieu of the RAB workshop.*

IV. Adjournment: The TRS adjourned at 8:30 p.m.

Attachments:

1. Attendance Report
2. Updated Relative Risk Rating Chart (Provided at the meeting to each member.)
3. BCT Minutes and Handouts, September 2000 (Handouts will be mailed separately.)
4. Spill Summary Report
5. Documents List

16S
MINUTAS DE LA JUNTA

SUBCOMITÉ DE REVISIÓN TÉCNICA (TRS, por sus siglas en inglés) DE LA BASE
DE LA FUERZA AÉREA KELLY
PARA LA JUNTA ASESORA DE RESTAURACIÓN DE KELLY (RAB, por sus siglas
en inglés)

26 de septiembre de 2000, Universidad de St. Mary's, Garni Science Hall
Dr. Gene Lené, Copresidente del TRS

I. Introducción: La junta del TRS se inició a las 7:00 p.m. El Documento Adjunto # 1 es el informe de asistencia. **[NOTA DEL TRADUCTOR: El documento original en inglés no tenía documentos adjuntos].**

II. Revisión de la Calificación del Riesgo Relativo: El Sr. William Ryan, de La Agencia de Conversión de Bases de la Fuerza Aérea (AFBCA por sus siglas en inglés), le preguntó al Comité si tenían alguna pregunta sobre aquellos sitios que se habían clasificado como Altos. El Comité estuvo de acuerdo que se habían clasificado correctamente como Altos. Se empezó a hablar de los sitios clasificados como Medios de manera individual. La mayoría de las preguntas se enfocaron en las actividades que se estaban realizando en cada uno de ellos y el lugar donde se encontraban los mismos. El Comité estuvo de acuerdo que se habían clasificado correctamente como Medios. El Comité también estuvo de acuerdo en no votar ni considerar a los sitios que se estaban transfiriendo a Lackland.

A. Discusión:

P. El Sr. Quintanilla preguntó por qué el material radioactivo de bajo nivel y los sitios de almacenamiento de desperdicios no se encontraban en la gráfica de Calificación del Riesgo Relativo.

R. EL Sr. Ryan explicó que la Calificación del Riesgo Relativo era únicamente para los sitios del Programa de Restauración de Instalaciones.

Comentario: El Sr. Quintanilla expresó que le preocupaba que los sitios de radioactividad de bajo nivel con un bajo riesgo para los vecindarios se limpiaran antes que los mismos vecindarios. El dinero se debe gastar en los vecindarios primero.

P. El Sr. Mark Weegar, de la Comisión para la Conservación de Recursos Naturales de Texas (TNRCC por sus siglas en inglés), preguntó que cuál era el problema de limpiar los sitios al mismo tiempo.

R. El Sr. Quintanilla contestó que el peor sitio se debe limpiar primero y debe recibir todo el dinero necesario.

P. El Sr. Quintanilla preguntó si el dinero de la Realineación y Cierre de Bases (BRAC, por sus siglas en inglés) se está usando para limpiar los sitios de bajos niveles de radioactividad.

R. El Sr. Ryan dijo que sí.

Comentario: El Sr. Weegar dijo que la calificación del riesgo relativo era una herramienta de presupuesto que únicamente se usaba cuando había algún faltante de fondos.

- P. El Sr. Lampright preguntó si la limpieza en otros sitios se aceleraría si se cambiaran los fondos que se usan para limpiar los sitios de baja radioactividad a otros sitios.
- R. El Sr. Ryan le dijo que tenemos los fondos para asegurar que cada sitio continúe en la secuencia reglamentada para su limpieza.
- B. El Comité votó para recomendar que el RAB aceptara las Calificaciones del Riesgo Relativo como se listaban en el Documento Adjunto # 2.
1. El Sr. Quintanilla expresó una opinión en contra.

III. Puntos administrativos:

- A. Se presentaron los folletos del Equipo de Conversión de la Base (BCT, por sus siglas en inglés) al Dr. Lené. (Ver Documento Adjunto # 3). El Sr. Ryan le dijo al Comité que las juntas del BCT tenían 4 puntos sobresalientes.
1. La entrega de la Investigación de Remedios (RI, por sus siglas en inglés) de la Zona 4 para la contaminación dentro y fuera de la base que se espera que se entregue a finales del mes de octubre del 2000 a la Comisión para la Conservación de Recursos Naturales de Texas.
 2. El TRS habló de la metodología que se utiliza para cerrar y abandonar sistemas de distribución de combustibles.

P. El Sr. Quintanilla preguntó cómo se iban a cargar de combustible los aeroplanos si los sistemas estaban cerrados.

R. El Sr. Ryan dijo que el sistema al poniente de la pista de aterrizaje se iba a seguir utilizando y que el del lado oriente de la pista iba a proporcionar servicio a través de un sistema nuevo instalado por los inquilinos de GKDA. Se les recordó a los presentes que los nuevos dueños / inquilinos no podían usar el antiguo sistema de la Fuerza Aérea.
 3. Se espera que el RI de las Zonas 2 y 3 combinadas sobre el suelo y el agua subterránea se entregue en noviembre.
 4. La investigación adicional de las posibles fuentes de contaminación al norte de la base puede estar lista a más tardar en dos semanas. El Sr. Ryan dijo que se les iba a entregar a las agencias reguladoras y al público tan pronto como estuviera disponible.
- B. Reporte del Resumen de Derrames: No hubo derrames en el mes de agosto de 2000. (Ver el Documento Adjunto).
- C. Documentos proporcionados al TRS / RAB: Hubo cinco documentos nuevos. (Ver Documento Adjunto # 5).
- D. Puntos de Acción: La Fuerza Aérea revisará la exactitud de las listas y calificaciones del Material de Bajo Nivel de Radioactividad y los Lugares de Almacenamiento de Desperdicios en la gráfica de calificación del riesgo relativo.
- E. La siguiente junta del TRS: La siguiente reunión del TRS será a las 6:30 p.m. del 14 de noviembre de 2000 en el Garni Science Hall, de la Universidad de St. Mary.
- Nota: El Comité decidió no tener una junta en el mes de octubre porque se va realizar la mesa de trabajo del RAB.*

IV. Cierre de la Sesión: Se cerró la sesión a las 8:30 p.m.

Documentos Adjuntos:

1. Informe de asistencia
2. Gráfica de Calificaciones del Riesgo Relativo (Entregado a cada uno de los miembros en la junta)
3. Minutas y folletos de septiembre de 2000 (los folletos se van a enviar por correo, por separado).
4. Informe del Resumen de Derrames
5. Lista de documentos



26 SEP 2000

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

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

SUBJECT: Monthly Spill Report for August 2000

There have been no reportable quantity or otherwise notable spills for the month of August 2000. Should you have any further questions or require additional information, please contact Mr. Jerry Pantoja at 925-3100 ext. 310 or email jerry.pantoja@kelly.af.mil.

Sincerely

A handwritten signature in black ink, appearing to read "Sean O'Brien".

SEAN O'BRIEN, Capt, USAF
Director, Environmental Management

Attachment 4

Kelly AFB

Integrity - Service - Excellence

TRS Briefing 26 Sep 01 Radiation Sites



U.S. AIR FORCE



U.S. AIR FORCE

3 Priority Sites

- **B326 Former Instrument Dept/Radium Paint Shop (1942-52)**
 - Investigation completed - 21 Sep
- **B375-2LM Former Flight Controls Shop (1977-94)**
 - Remediation complete - 28 Sep
- **B324 Former Instrument Dept/Radium Paint Shop (1934-42)**
 - Investigation contract to be awarded Dec 01



U.S. AIR FORCE

B326 Radium Paint Shop (1942-52)

- **Current Status - Radium contamination above action levels has been found both inside B326 and exterior to the bldg in sewer lines and Former South Kelly WWTP**
- **Interior - Delineation is complete as of 21 Sep. Most of the 1st and 2nd floors are impacted above action levels.**
 - **Highest Readings - Crawlspace under former shop locker room - 1M counts/100cm², BG = 5000 counts (200x BG) (Not accessible to public)**

000 x
background



B326 Radium Paint Shop (Cont)

U.S. AIR FORCE

- **Exterior - Investigated 80+ Sanitary/Storm Sewer, Water and Electric manholes**
 - **2 impacted sanitary manholes (8X BG) (Are accessible to SAWS workers)**
 - **100 mrem/yr dosage to SAWS worker if he stayed in this manhole for 40hrsX50wks = 2000 hrs/yr**
 - **1 impacted water valve manhole**
 - **Several locations along UG sanitary line mains along Berman Rd. near 326 and 329 are elevated**
 - **Stormwater UG lines and concrete lined ditch to outfall 002 - not impacted**
- **Shallow GW analysis from wells near perimeter of B326 - not impacted**

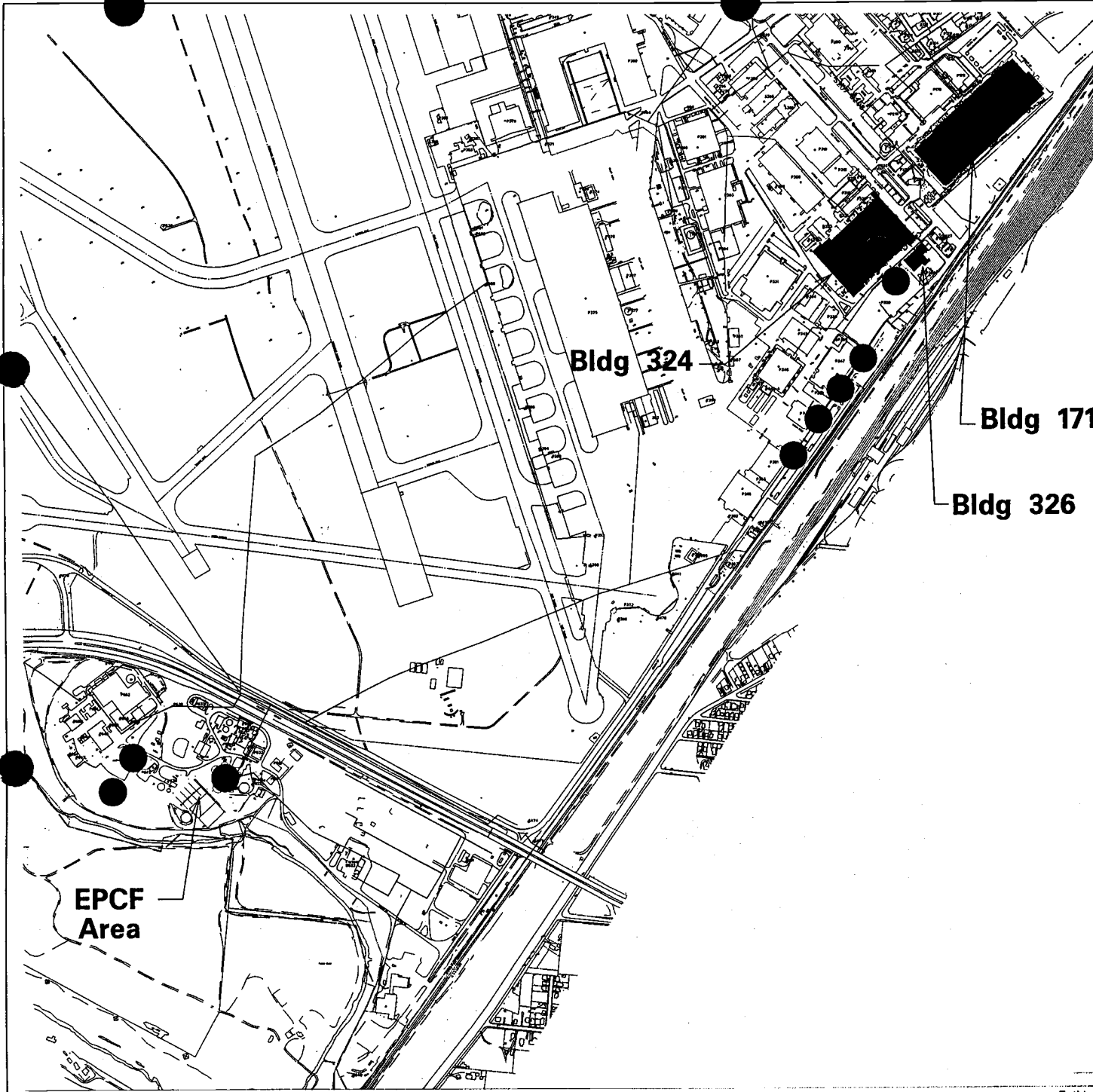


B326 Radium Paint Shop (Cont)

U.S. AIR FORCE

- **Former Kelly WWTP sludge drying beds (1940s-50s)
- are impacted**
 - **3 elevated areas of surface soil in IRP sites SD-2 &
FC-2, & near B620**
 - **Off-base City of SA WWTPs (Dos Rios and Leon
Creek) surveyed and soil sampled - not impacted**
 - **Characterization Report due ~ 1 Oct**
 - **Sewerline options will be included:**
 - **Complete removal/replacement, or Leave in place/Deed Record**
 - **Comment period, decision meetings will include AF,
EPA, TDH, TNRCC, GKDA, SAWS, etc. (9 Oct - 9 Nov)**
 - **Remediation projected to begin in ~ 3 months (Jan
02)**
-

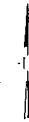
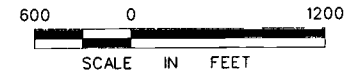
Integrity - Service - Excellence



LEGEND

— Sanitary Sewer Line

● Impacted With Radiation



**KELLY AFB
 RADIUM PAINT
 SHOP, BLDG 326,
 RADIATION
 INVESTIGATION**

SEPTEMBER 26, 2001

AIR FORCE
 BASE CONVERSION AGENCY
 KELLY AFB, TX

Relative Risk Chart Special Instructions

TRS Members

Please review the attached Relative Risk Ratings and mark whether you agree or disagree with the rating. Please return your marked chart in the enclosed envelope by 22 Sept. 00.

Those site ratings that you disagree with will be the focus of our discussions.

Thank you

Relative Risk Evaluation Table

Site Name	Site ID	Category Rating						Overall	Site Closed or Awaiting Closure	Agree or Disagree with rating	
		Groundwater	Surface Water (Human)	Surface Water (Ecological)	Soil	Sediment (Human)	Sediment (Ecological)	Relative Risk		YES	NO
Spill Site S-1	SS003	High	NE	NE	High	NE	NE	High			
Site S-4	ST006	High	NE	NE	High	NE	NE	High			
D-1 Landfill	LF011	High	High	High	High	NE	NE	High			
D-3 Landfill	LF013	Medium	Medium	High	Medium	NE	NE	High			
D-5 Landfill	LF015	Medium	High	High	High	NE	NE	High			
D-6 Landfill	LF016	High	NE	NE	High	NE	NE	High			
D-7 Landfill	LF017	High	NE	NE	High	NE	NE	High			
D-10 Landfill	LF019	NE	High	High	Medium	NE	NE	High			
Evaporation Pit E-3	WP022	High	NE	NE	High	NE	NE	High			
Sludge Drying Lagoon (SA-8)	SS030	High	High	High	NE	NE	NE	High			
Sludge Spreading Area (SA-4)	SS032	Medium	NE	NE	High	NE	NE	High			
GW Contamination Zone – Leon Creek	SS035	High	High	High	NE	NE	NE	High			
GW Contamination Zone –2	SS036	High	High	High	NE	NE	NE	High			
Zone 3 Groundwater	SS037	High	NE	NE	NE	NE	NE	High			
Metal Plating Shops (OT-2)	SS040	High	NE	NE	High	NE	NE	High			

NE = Not Evaluated

Site Name	Site ID	Category Rating						Overall Relative Risk	Site Closed or Awaiting Closure	Agree or Disagree with rating	
		Groundwater	Surface Water (Human)	Surface Water (Ecological)	Soil	Sedimen t (Human)	Sediment (Ecologic al)			YES	NO
Combined Site 2	SS042	High	High	High	High	NE	NE	High			
Combined Site (CS-3) Ravine	SS043	High	High	High	Low	NE	NE	High			
Zone 3, IWCS	SS044	High	NE	NE	High	NE	NE	High			
Groundwater Zone 5	SS050	High	NE	NE	NE	NE	NE	High			
Zone 4 Groundwater	SS052	High	NE	NE	NE	NE	NE	High			
Security Hill Area	LF001	Medium	Low	Low	Medium	NE	NE	Medium			
Site S-3	SS005	Medium	Low	Low	Medium	NE	NE	Medium			
D-2 Landfill	LF012	Medium	Low	Low	Medium	NE	NE	Medium			
D-4 Landfill	LF014	Medium	Low	Low	Medium	NE	NE	Medium			
S-10 Spill Site	SS045	Medium	NE	NE	Low	NE	NE	Medium			
IWCS Site	SS051	Medium	Low	Low	Medium	Low	Low	Medium			
RD-1 RAD Disposal Area	RW026	Low	Low	NE	Low	NE	NE	Low			
SA-1 Sludge Spreading Area	WP029	NE	NE	NE	Low	NE	NE	Low			
Former IWTP	SS002								♦		
S-2 Storage Yard	SS004								♦		
S-5 UST/Spill Site	ST007								♦		
S-6 UST/Spill Site	ST008								♦		

NE = Not Evaluated

Site Name	Site ID	Category Rating						Overall	Site Closed or	Agree or Disagree with rating	
		Groundwater	Surface Water (Human)	Surface Water (Ecological)	Soil	Sediment (Human)	Sediment (Ecological)	Relative Risk	Awaiting Closure	YES	NO
S-7 UST/Spill Site	ST009								♦		
S-9 Fuel Site	ST010								♦		
D-8 Landfill	LF018								♦		
E-2 Evaporation Pit	WP020								♦		
E-1 Evaporation Pit	WP021								♦		
FC-1 Fire Training Area	FT023								♦		
FC-2 Fire Training Area	FT024								♦		
IS-1 Spill Site	SS025								♦		
RD-2 Radioactive Disposal Area	RW027								♦		
S4-A Hazwaste Storage	SS028								♦		
SA-4 Sludge Spreading Area	SS031								♦		
SD-1 Sludge Drying Beds	WP033								♦		
SD-2 Sludge Drying Beds	WP034								♦		
OT-1 Liquid Waste Incinerator	SS039								♦		

NE = Not Evaluated

Site Name	Site ID	Category Rating						Overall	Site Closed or Awaiting Closure	Agree or Disagree with rating	
		Groundwater	Surface Water (Human)	Surface Water (Ecological)	Soil	Sediment (Human)	Sediment (Ecological)	Relative Risk		YES	NO
B-1 Salvage Lumber Burn Area	SS041								♦		
Bldg. 182 UST Site	ST046								♦		
Bldg. 386 UST Site	ST047								♦		
Bldg. 308 UST Site	ST048								♦		
Bldg. 38 UST Site	ST049								♦		

NE = Not Evaluated

Relative Risk Evaluation Summaries



Kelly Air Force Base, TX
April 2000

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	▼	Medium
Surface Water (Human)	▲	▼	▼	Low
Surface Water (Ecological)	▲	▼	▼	Low
Soil	▼	▲	◆	Medium
Sediment (Human)		▼	▼	NE
Sediment (Ecological)		▼	▼	NE

- CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal
- MPF ▲ Evident
 ◆ Potential
 ▼ Contained
- RF ▲ Identified
 ◆ Potential
 ▼ Limited

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	▲	◆	High
Surface Water (Human)	▲	▲	▲	High
Surface Water (Ecological)	▲	▲	▲	High
Soil	◆	▲	▲	High
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	▲	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▼	◆	Medium
Surface Water (Human)	▼	▼	▲	Low
Surface Water (Ecological)	▼	▼	▲	Low
Soil	◆	◆	◆	Medium
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

- CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal
- MPF ▲ Evident
 ◆ Potential
 ▼ Contained
- RF ▲ Identified
 ◆ Potential
 ▼ Limited

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▼	▲	◆	Medium
Surface Water (Human)	▼	▲	◆	Medium
Surface Water (Ecological)	◆	▲	▲	High
Soil	◆	◆	◆	Medium
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▼	◆	Medium
Surface Water (Human)	▼	▼	▲	Low
Surface Water (Ecological)	◆	▼	▲	Low
Soil	◆	◆	◆	Medium
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▼	◆	Medium
Surface Water (Human)	▼	▲	▲	High
Surface Water (Ecological)	▲	▲	▲	High
Soil	◆	▲	◆	High
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	▲	◆	High
Surface Water (Human)		▼	▲	NE
Surface Water (Ecological)		▼	◆	NE
Soil	◆	▲	◆	High
Sediment (Human)		▼	▲	NE
Sediment (Ecological)		▼	▼	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	▲	◆	High
Surface Water (Human)		◆	▼	NE
Surface Water (Ecological)		◆	▼	NE
Soil	◆	▲	◆	High
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited
 NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater		▲	◆	NE
Surface Water (Human)	▼	▲	▲	High
Surface Water (Ecological)	▼	▲	◆	High
Soil	◆	▲	◆	Medium
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▼	▼	▼	Low
Surface Water (Human)	▼	▼	▼	Low
Surface Water (Ecological)	▼	▼		NE
Soil	▼	▼	▼	Low
Sediment (Human)				NE
Sediment (Ecological)				NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited
 NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	◆	High
Surface Water (Human)		▼	▼	NE
Surface Water (Ecological)		▼	▼	NE
Soil	◆	▲	◆	High
Sediment (Human)		▼	▼	NE
Sediment (Ecological)		▼	▼	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	◆	◆	Medium
Surface Water (Human)		◆	▲	Low
Surface Water (Ecological)		◆	◆	Low
Soil	◆	◆	◆	Medium
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	▲	◆	High
Surface Water (Human)	◆	▲	▲	High
Surface Water (Ecological)	◆	▲	◆	High
Soil		▲	◆	NE
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Sludge spreading area (SA-4) Site ID: SS032
 Date Entered: 5/5/95
 Site Type: Spill site Agreement type: RCRA agreements with
 corrective action requirements

Overall Relative Risk	High
--------------------------	------

Site Summary

Site Description Sludge spreading area SA-4 is located in zone 2 along the northern boundary mid way between the jet engine test cells and the Industrial Waste Treatment Facility. Study findings indicate the presence of chlorinated solvents, fuel by products and metals, but the contaminant levels were below health risk assessment thresholds of concern. This site is recommended for closure.

Description of Pathways Main pathways are groundwater and soil, with potential pathways for surface water and sediment.

Description of Receptors Human receptors include maintenance and construction workers, base employees working near the site, and local residents who live downwind of the site. Ecological receptors include aquatic life in Leon Creek as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▼	▲	◆	Medium
Surface Water (Human)		◆	▲	NE
Surface Water (Ecological)		◆	◆	NE
Soil	◆	▲	◆	High
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: GW Contamination Zone- Leon Creek Site ID: SS035
 Date Entered: 10/13/1997
 Site Type: Spill site area Agreement type: RCRA permits with corrective action requirements

Overall Relative Risk	High
--------------------------	------

Site Summary

Site Description

The groundwater associated with Zone 1, designated as MAP Site Number 17, is related to an area of 16 individual IRP sites (MAP Sites 1 through 16) and 3 non-IRP sites located on the western end of the base, bounded by Westover Road and the southern and western base boundaries. The groundwater at the 19 sites is addressed collectively as Zone 1 because of the close proximity of the sites and to optimize the groundwater remediation of the entire area. A large portion of the Zone 1 area has historically been used for waste disposal through landfills, sludge beds, an oil evaporation pit, an oil burning pit, a lumber burning area, and a low-level radioactive waste disposal area. Periods of active operation at Zone 1 sites range from the early 1900s through the early 1970s. The majority of the Zone 1 area now coincides with the present-day base golf course, which was constructed in 1969.

Description of Pathways

Over much of Zone 1, alluvial sediments and shallow unconfined groundwater overlie a tight clay of the Navarro Group. An approximately 75 foot high escarpment extends north-south through Zone 1. On top of the escarpment to the west, the Navarro clay is exposed at the surface and contains limited groundwater that is under confined conditions within thin silt seams. Many sites in Zone 1 are located on top of the escarpment and, therefore, have little or no impact on shallow groundwater quality. Below the escarpment, the shallow groundwater generally flows towards Leon Creek

Description of Receptors

Human receptors include maintenance and construction workers, golfers, base employees working near the site, local residents who live downwind of the site, and adolescents at the golf course. Ecological receptors include aquatic life in Leon Creek as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	◆	High
Surface Water (Human)	◆	◆	▲	High
Surface Water (Ecological)	◆	◆	▲	High
Soil		▼	▼	NE
Sediment (Human)		▼	▲	NE
Sediment (Ecological)		▼	▲	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: GW Contamination Zone 2 Site ID: SS036
 Date Entered: 10/13/1997
 Site Type: Spill site area Agreement type: RCRA permits with corrective
 action requirements

Overall Relative Risk	High
--------------------------	------

Site Summary

Site Description Zone 2, designated as MAP Site Number 33, is located in the southernmost corner of Kelly AFB along Leon Creek, bounded by Military Drive, the Union Pacific Railroad yards, and the southern base boundary along its western, southern, and eastern sides. The Zone 2 area comprises approximately 174 acres and contains several industrial facilities, including the Jet Engine Test Cell facility and the present EPCF. The Zone includes 16 IRP sites. Because of these sites' close proximity to one another and the need to optimize groundwater remediation of the entire area, groundwater is addressed collectively in Zone 2.

Description of Pathways The ground around most of the Zone 2 facilities is predominantly grass-covered. The land surface generally slopes towards Leon Creek, with elevations ranging from 610 to 650 feet above NGVD. Surface water from Zone 2 flows into Leon Creek, either directly or through the Berman Road Ditch. In general, Zone 2 is underlain by three main stratigraphic units: Quaternary alluvial sediments; the Cretaceous Navarro Group and Taylor Group clays and marls; and the Cretaceous Edwards Group limestones and dolomites. Contamination associated with surface spills, waste transport lines, and past disposal practices is confined to the near-surface alluvial sediments and its associated aquifer. Comprehensive and detailed discussions of the Kelly AFB regional geology and hydrogeology are presented in the Hydrogeology of Kelly Air Force Base, Report of Findings (1989) and the Basewide Hydrogeologic Assessment (1990).

Description of Receptors Human receptors include maintenance and construction workers, base employees working near the site, local residents who live downwind of the site, and adolescents at the golf course. Ecological receptors include aquatic life in Leon Creek as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	◆	High
Surface Water (Human)	▼	▲	▲	High
Surface Water (Ecological)	◆	▲	◆	High
Soil		▼	▼	NE
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited
 NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	▲	High
Surface Water (Human)		▼	▲	NE
Surface Water (Ecological)		▼	◆	NE
Soil		▼	▼	NE
Sediment (Human)		▼	▲	NE
Sediment (Ecological)		▼	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Metal plating shops (OT-2) Site ID: SS040
 Date Entered: 5/5/95
 Site Type: Spill site Agreement type: RCRA agreements with
 corrective action requirements

Overall Relative Risk	High
--------------------------	-------------

Site Summary

Site Description	This site is the former metal plating shops (OT-2) and was the majority contributor to shallow groundwater contamination. The primary contaminants of concern include chlorinated solvents and benzene, and metals. A groundwater recovery system has been in place and operating since early 1996 and a slurry wall was installed in 1998 to contain the contaminants and preclude further impact to the environment. Ground water impacts from this site remain under investigation as part of the zone wide groundwater site.
Description of Pathways	Main pathways are groundwater and soil, with potential pathways of surface water and sediment.
Description of Receptors	Human receptors include maintenance and construction workers, base employees working near the site, and local residents who live downwind of the site. There is a potential for groundwater to reach surface water, so ecological receptors include aquatic life and livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	▲	High
Surface Water (Human)		◆	▲	NE
Surface Water (Ecological)		◆	◆	NE
Soil	◆	▲	▲	High
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	◆	High
Surface Water (Human)	◆	▲	▲	High
Surface Water (Ecological)	◆	▲	◆	High
Soil	◆	▲	◆	High
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Combined Site (CS-3) Site ID: SS043
 Ravine
 Date Entered: 10/13/1997
 Site Type: Spill site area Agreement type: RCRA permits with corrective
 action requirements

Overall Relative Risk	High
--------------------------	------

Site Summary

Site Description

Combined Site Number 3 (Site CS-3), designated as MAP Site Number 2, is contained primarily within the boundaries of a natural draw that extends from Leon Creek at its northern end approximately 1800 feet to the southwest. The western portion of the site, currently occupied by softball fields, is bounded by buildings and parking lots of the Electronic Security Command area. The eastern portion of the site lies within the base golf course. An additional landfill area, referred to as the northern trench area, located north of the eastern end of the draw was incorporated into the Site CS-3 area because of its close proximity. Site CS-3 was formerly used as a landfill for construction rubble and other materials; however, Site RD-2 (Radioactive Disposal Site), lies within the site boundaries.

Description of Pathways

The surface topography at Site CS-3 varies from a relatively flat area in the western portion of the site to a steeply sloping natural draw in the eastern portion of the site. The site stratigraphy consists almost entirely of fill and landfill lying directly atop hard, dense Navarro Group clay. The fill thickness is quite variable and locally increases to nearly 30 feet, generally consisting of silty clay that often contains concrete or brick rubble. Landfill material ranging up to 20 feet in thickness is distributed unevenly throughout the site and generally consists of paper, wood, and plastic refuse. The topography at the site drains surface runoff northeast into Leon Creek. Groundwater at the site flows primarily within fill material and mimics surface water drainage.

Description of Receptors

Human receptors include maintenance and construction workers, golfers, base employees working near the site, local residents who live downwind of the site, and adolescents at the golf course. Ecological receptors include aquatic life in Leon Creek as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	◆	High
Surface Water (Human)	▼	▲	▲	High
Surface Water (Ecological)	◆	▲	▲	High
Soil	◆	▼	◆	Low
Sediment (Human)		▲	▲	NE
Sediment (Ecological)		▲	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Site ID: SS044
 Date Entered: 5/5/95
 Site Type: Spill site Agreement type: RCRA agreements with
corrective action requirements

Overall Relative Risk	High
----------------------------------	-------------

Site Summary

Site Description The Industrial Waste Collection System lies predominantly in zone 3, but transits zone 5 into the Environmental Process Control Facility in zone 2. Additionally, a service line extends to zone 4. This collection system was an adapted storm water and domestic sewer line composed primarily of clay pipes. This collection system serviced the industrial area from the early 1950s until late 1995. Releases from the IWCS include chlorinated solvents, chlorinated hydrocarbons and metals.

Description of Pathways Main pathways are groundwater and soil, with potential pathways of surface water and sediment.

Description of Receptors Human receptors include maintenance and construction workers, base employees working near the site, and local residents who live downwind of the site. There is a potential for groundwater to reach surface water. Therefore, ecological receptors include aquatic life in Leon Creek as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	▲	High
Surface Water (Human)		◆	▲	NE
Surface Water (Ecological)		◆	◆	NE
Soil	◆	▲	▲	High
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	◆	◆	Medium
Surface Water (Human)		▼	▼	NE
Surface Water (Ecological)		▼	▼	NE
Soil	▼	◆	◆	Low
Sediment (Human)		▼	▼	NE
Sediment (Ecological)		▼	▼	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Groundwater Zone 5 Site ID: SS050
Date Entered: 10/13/1997
Site Type: Spill site area Agreement type: RCRA permits with corrective action requirements

Overall Relative Risk High
--

Site Summary

Site Description The former still was used for the recycling and recovery of spent solvents associated with degreasing/cleaning activities. It is estimated that the still was operated between the years 1955 and 1972, but there are no present physical remains of the operation. Base employees suggest that the primary solvent at the site was trichloroethylene. The area is currently used for industrial activities. The SS050 has been expanded to include all groundwater in Zone 5.

Description of Pathways Groundwater is common in the alluvium, but may be absent in some areas. The site is located along the eastern margin of a relatively large dry Zone caused by the upper surface of the Navarro clay being higher than the water table elevation. The saturated thickness of the alluvial aquifer ranges between 0 to 4.5 feet. Groundwater flow is generally to the east and east-southeast, and the water table gradient is relatively flat.

Description of Receptors Potential receptors are local residents. Off base plume in shallow groundwater. Groundwater has impacted aquifer which is listed by the state as potential drinking water source.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	▲	◆	High
Surface Water (Human)		▼	▼	NE
Surface Water (Ecological)		▼	▼	NE
Soil		▼	▼	NE
Sediment (Human)		▼	▼	NE
Sediment (Ecological)		▼	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: IWCS Site Site ID: SS051
 Date Entered: 6/29/95
 Site Type: Spill site Agreement type: RCRA agreements with
 corrective action requirements

Overall Relative Risk	Medium
--------------------------	--------

Site Summary

Site Description This is the Zone 4 Industrial Waste Collection System site, which serviced engine repair facilities from the 1940s to the mid 1970s. The lines were abandoned in place in the 1970s. This site is currently under evaluation as a component of a zone wide facility investigation.

Description of Pathways Potential pathways include groundwater, surface water, soil and sediment.

Description of Receptors Human receptors include maintenance and construction workers, base employees working near the site, and local residents who live downwind of the site. There is a potential for groundwater and storm runoff to reach surface water. Therefore, ecological receptors include aquatic life in Leon Creek as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	◆	◆	Medium
Surface Water (Human)		◆	▲	Low
Surface Water (Ecological)		◆	◆	Low
Soil	◆	◆	◆	Medium
Sediment (Human)		◆	▲	Low
Sediment (Ecological)		◆	◆	Low

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Zone 4 Groundwater Site ID: SS052
Date Entered: 5/5/95
Site Type: Spill site Agreement type: RCRA agreements with
corrective action requirements

Overall Relative Risk High
--

Site Summary

Site Description

This site comprises the Zone 4 ground water assessment. The Facility Investigation addendum is currently being written to determine the final corrective measures necessary to clean up the ground water to appropriate levels. A series of horizontal wells and an ultraviolet oxidation treatment plant were installed in late 1999 and early 2000 as an interim measure to halt further impact to the environment. The treatment plant is anticipated to commence operations in May 2000.

Description of Pathways

Main pathway is groundwater since this is a groundwater site.

Description of Receptors

Human receptors include maintenance and construction workers, base employees working near the site, and local residents who live downwind of the site. There is a potential for groundwater and to reach surface water, so ecological receptors include aquatic life and livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	◆	▲	▲	High
Surface Water (Human)		▼	▲	NE
Surface Water (Ecological)		▼	◆	NE
Soil		▼	▼	NE
Sediment (Human)		▼	▲	NE
Sediment (Ecological)		▼	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	▲	High
Surface Water (Human)		◆	▲	NE
Surface Water (Ecological)		◆	◆	NE
Soil	◆	▲	◆	High
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater	▲	▲	◆	High
Surface Water (Human)		◆	▲	NE
Surface Water (Ecological)		◆	◆	NE
Soil	◆	▲	◆	High
Sediment (Human)		◆	▲	NE
Sediment (Ecological)		◆	◆	NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal

MPF ▲ Evident
 ◆ Potential
 ▼ Contained

RF ▲ Identified
 ◆ Potential
 ▼ Limited

NE = Not Evaluated



Relative Risk Evaluation Summary

Site Name: Site SA-1 Sludge Spreading Area Site ID: WP029
 Date Entered: 10/20/1998
 Site Type: Disposal pit/Dry well Agreement type: RCRA permits with corrective action requirements

Overall Relative Risk	Low
--------------------------	-----

Site Summary

Site Description

The SA-1 sludge spreading area covers approximately 1 acre and lies within the southwestern section of the base Golf Course. The site is located 500 ft north of Military Drive and the installation boundary, and 1000 feet west of Leon Creek. The site was in active use in the 1960s and consisted of a settling pond and a sludge drying area. By 1970 the settling pond and drying bed were removed by excavation. Cut and fill trenches were excavated in part of the area and became part of LF017 (D-7). The only contaminant found during monitoring was trichloroethylene.

Description of Pathways

The surface of the site is predominately grass covered and slopes downward from west to east. The upper surface soil horizon generally consists of fill and landfill material extending to depths of 3 to 24 feet, directly overlaying the Navarro Group clay. Isolated units of alluvial sediment exist at the site, ranging in thickness from 3.5 to 12.3 feet. The Navarro clay contains thin discontinuous sand and silt lenses and appears to be hydraulically connected to the alluvial water table. Groundwater at the site flows in a southeasterly direction

Description of Receptors

Human receptors include maintenance and construction workers, golfers, and base employees working near the site. Ecological receptors include aquatic life in Leon Creek, as well as livestock downstream.

See reverse side for medium-specific information.

	Contaminant Hazard Factor (CHF)	Migration Pathway Factor (MPF)	Receptor Factor (RF)	Category Rating
Groundwater				NE
Surface Water (Human)				NE
Surface Water (Ecological)				NE
Soil	◆	▼	◆	Low
Sediment (Human)				NE
Sediment (Ecological)				NE

CHF ▲ Significant
 ◆ Moderate
 ▼ Minimal
 MPF ▲ Evident
 ◆ Potential
 ▼ Contained
 RF ▲ Identified
 ◆ Potential
 ▼ Limited
 NE = Not Evaluated

BCT Meeting 26 September 2000

The meeting was held on Tuesday, 26 September 2000 at 9:00 am in the WPI Office, 12th floor conference room.

Members Present and Support Personnel:

Name	Organization	Present	Absent
Brown, Leslie	AFBCA/DK		X
Buelter, Don	AFBCA/DK	X	
Callaway, Laurie	BCA (KPMG)		X
Carrillo, Mike	EPA	X	
Farrelli, Philip	GKDA	X	
Landez, Norma	AFBCA/DK	X	
Meshako, Chuck	AFBCA/DK	X	
Neff, Richelle	UNITEC	X	
Power, Abigail	TNRCC	X	
Price, Lisa Marie	EPA		X
Rohne, Russell	AFBCA/DK	X	
Ryan, William	AFBCA/DK	X	
Stankosky, Laura	EPA	X	
Underwood, Tim	BCA (KPMG)	X	
Weegar, Mark	TNRCC	X	
Wehner, Ellie	TNRCC		X

Dates for upcoming meetings:

November 14, 2000
 December 12, 2000
 January 9, 2001
 February 13, 2001

Attachment 3

BCT MINUTES
26 September 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. Construction of the Administration Building is progressing. The Greater Kelly Development Authority (GKDA) will start leasing space within 60 days. An independent evaluation of the Environmental Process Control Facility (EPCF) was completed in mid-September. GKDA is considering transfer of the EPCF. East Kelly is being used as a prototype for facility leaseback. The leaseback date for the East Kelly facilities is 1 November 2000. Additional leasebacks are expected to start in April 2001. Twelve housing units have been found on base in a non-contaminated area. GKDA will transfer the clean parcel to the City of San Antonio.
2.	Hampton, R.	SAIC	Zone 3 RFI Screening Methodology Presentation/ 300 Area RFI	Review screening methodology that was submitted to and approved by the TNRCC and EPA. Provide overview of the 300 Area RFI.	Discussion is complete.	Open. The Air Force reviewed the screening methodology to be used for the Zone 3 RCRA Facility Investigation (RFI) which includes a discussion regarding the areas of investigation, the screening criteria for chemicals of concern, and water level information. The Zone 3 RFI database has been updated to include historical IRPIMS data, new IRPIMS data and redevelopment data. The draft final RFI is scheduled to be submitted in January 2001.
3.	Hampton, R.	SAIC	Site E-1 RFI	Provide overview of the RFI report. Present interim remedial action data.	Discussion is complete.	Closed. The Air Force presented information from data gap sampling conducted at Site E-1. Through data gap sampling and review of past boring logs, the Air Force has identified the Midway/Navarro contact and has established vertical extent in the Midway formation. The Air Force proposed 3 additional borings to delineate horizontal extent in the Midway formation. Mark Weegar stated that the current data delineated vertical and lateral extent, so the 3 soil borings will be used to supplement the E-1 Corrective Measures Study (CMS). The Site E-1 RFI will be submitted to TNRCC and EPA in October 2000.
4.	Bueller, D.	Chapa, M.	Hydrant System Update	Discuss possible options for the closure of the hydrant system.	Team determines how to proceed with closure.	Close. The Air Force proposed different strategies for closure of the fuel hydrant system. The Air Force also proposed release determination sampling methods and a format for the release determination report. The Air Force will schedule a meeting with TNRCC petroleum storage tank (PST) section and Corrective Action section representatives in Austin to further discuss the hydrant system closure process.
5.	Meshako, C.		Sanitary Sewer System	Discuss status of sanitary sewer system.	Discussion is complete.	Closed. The Air Force presented a brief history of the sanitary sewer system and inquired as to the requirements for transfer of the system. An assessment of the sanitary sewer system is required for transfer. Mark Weegar stated that existing data can be used for the assessment, however the Air Force will need to investigate areas where existing data is not sufficient. The investigation will focus on areas that handled industrial wastewater and areas where structural defects or connections would indicate a potential release.
6.	Rohne, R.		Zone 5 Off Base Investigation	Provide update on the status of the off base investigation and present preliminary data.	Presentation is complete.	Open. Samples were collected from the new off base wells in August. Three wells located north of the base were dry and will be re-sampled. Validated analytical results from the groundwater sampling area expected in a couple of weeks.

Item	Lead	Support	Discussion Topic	Comments	How will we know it's done?	Disposition
7.	Rohne, R.	CH2M Hill	Ecological Risk Assessment Tier 2	Provide update on status of the Tier 2 Ecological Risk Assessment.	Team receives update.	Closed. The Air Force will submit their response to comments during the week of 25 September. A teleconference to discuss the responses will be scheduled during October. The Tier II report is scheduled to be submitted in December. A meeting will be held prior to submittal of the Tier II report to discuss the report.
8.	Peck, W.	Courtney, S.	Zone 4 RFI/CMS	Provide an update of the status of the RFI/CMS reports.	Team receives update.	Closed. The human health risk assessment is currently underway. The RFI report is scheduled for submittal by the end of October. The Air Force presented the format of the OU-1 and OU-2 RFI and the BCT agreed to the format.
9.	Ryan, W.	Buelter, D. Peck, W. Rohne, R.	Zone Updates	Provide team with update of current activities in Zones 2, 3, 4 and 5.	Team receives updates.	Closed. Handouts were distributed for Zones 2, 3 and 4. The Zone 5 handout will be sent out with the minutes. The Air Force provided a brief presentation on the removal and closure of three oil water separators located in Zone 4. The removal has been completed and the three sites will be closed under RRS1.
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.	Open. The list will be e-mailed to the BCT members.
11.	Ryan, W.	BCT Members	Begin October Agenda	Each month, begin to establish the next month's agenda at the end of the BCT meeting.	Team approves agenda items.	Closed. The October BCT meeting has been cancelled. The next BCT meeting will be 14 November. Agenda items for the November BCT include: <ul style="list-style-type: none"> • 300 Area RFI • Zone 2 & 3 CMS • Site S-4 Interim System • B/522 Interim Systems • Zone 4 RFI/CMS
12.	Ryan, W.	BCT Members	Public Meetings	Discuss recent public meetings.	Discussion is complete.	Closed. Air Force, EPA and TNRCC community involvement staff will establish regular communication regarding timing and content of public meetings.

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE