

Phase I Environmental Site Assessment  
Supplemental Report  
St. George Airport

March 2003



Prepared for:



City of St. George  
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## TABLE OF CONTENTS

### EXECUTIVE SUMMARY

#### Introduction

1.0	Project Site Visit.....	1
2.0	Interviews.....	6
3.0	Regulatory Records Review .....	7
4.0	Conclusions and Recommendations.....	9
5.0	Standard Limitations.....	11

#### List of Figures

Figure 1 – Airport Site Plan.....	12
Figure 2 – Private Hanger Facilities.....	13

### APPENDICES

Appendix A	Airport Tenants
Appendix B	Photographs
Appendix C	Utah Department of Environmental Quality Division of Environmental Response and Remediation UST Closure Records
Appendix D	Utah Landfill Records

## Introduction

Parsons Brinckerhoff Quade & Douglas, Inc. (PB) was contracted by the City of St. George to review and complete the Phase I Environmental Site Assessment (ESA) report of the St. George Municipal Airport property submitted by Stantec Consulting, Inc. in September of 2002. This Supplemental Report to the Phase I ESA includes: follow-up of data and conclusions in the Stantec Report; observations made during a site visit conducted in December 2002; interviews regarding the history of areas of concern at the St. George Municipal Airport property; and a review of records from the Utah Department of Environmental Quality/Division of Environmental Response and Remediation (DEQ/DERR) office.

The City of St. George has assumed responsibility for the accuracy of the data provided in the Stantec Report. The Supplemental Report refers to the Stantec Report, which is available at the Public Works Office.

### 1.0 Project Site Visit

A site visit was conducted by Ms. Gail Cheever (Parsons Brinckerhoff) on December 9, 2002. The purpose of the site visit was to visually observe the St. George Municipal Airport facilities, aboveground storage tank (AST) farms, and areas of concern noted in the Phase I Environmental Site Assessment report prepared by Stantec Consulting, Inc. Mr. David Ulane, Airport Manager, accompanied Ms. Cheever during the site visit. Mr. Johnnie Johnson, Airport Maintenance Supervisor, was available to tour the city maintenance building and answer general questions regarding the history and maintenance of the airport.

The St. George Municipal Airport (Site) is located on a ridge overlooking the City of St. George, Utah. The Site is approximately 200 acres in size. The Main Terminal and parking areas, Transwest Aero LLC, Western Air Service Fixed Base Operator (FBO), private hangars, Federal Express building and hangar are located on the east side of the north-south trending runway. The west side of the Site (from south to north) includes the City Maintenance building, private hangars, Dixie College hangar, aboveground storage tank farms, Skywest/Aerowest FBO building, Aerowest paint building, and Rivers Aviation. The restaurant and motel are located adjacent to the site, but are not owned by the City of St. George, and are not considered part of the Site. PB did not perform a Phase I ESA of these facilities.

A Site Plan is shown as Figure 1. The Private Hangar facilities shown on Figure 2 are keyed to a tenant list included as Appendix A. The map and list of tenants was provided by Mr. Ulane and is current as of February 2003. Photographs of the Site are included in Appendix B.

It should be noted that the existing Western Air Service FBO property was previously leased to Scenic Airlines and has been referred to as either Scenic or Skywest Aviation in the Stantec report and DEQ/DERR documentation. It was the old terminal building and is also referred to as the old airport terminal building in the Stantec report. This report refers to the property as Western Air Service. The corresponding DERR

underground storage tank (UST) facility identification number #6000248 for Western Air Service is shown on Figure 1.

The existing Aerowest FBO is a sub lessee of Skywest. In some of the documentation the property has been referred to as Skywest Aviation. The DERR UST identification number for the Aerowest property is #6000181, and is shown on Figure 1.

Most of the buildings were observed during the site visit; however, access was not available to all of the small private hangars.

The airport facilities and areas of concern are described as follows:

City of St. George Maintenance Building (west side of runway, most southern building)

The Maintenance building includes a large work and storage area with an office and space for a future restroom at the east end of the building. A floor drain was observed in the main room, however Mr. Johnson indicated that it was not connected to piping. Approximately one inch of liquid was observed in the drain. It appeared that the City maintained good housekeeping procedures. The following materials were observed in the main room:

- 21 boxes (2-2.5 gallon) BASF Weedmaster herbicide
- large tank Krovar weed killer (Round-up)
- 3 - 3 gallon Chevron 1000 THF Hydraulic Fluid
- 5 - 5 gallon diesel fuel
- 2 oxygen tanks
- assorted maintenance products

A propane tank utilized for on-site weed burning is located on the south side of the building. No spills or leaks were observed at this facility.

Above Ground Storage Tank (AST) Farm

The AST area is located on the west side of the runway and to the northwest of the Dixie College hangar. There are seven ASTs located in the tank farm area owned by various businesses. The ASTs and observations at the tank locations are described below.

*St. George Aviation AST*

St. George Aviation dispenses 100 LL AvGas fuel at a location near the runway. The fuel is stored in the most southern AST within the tank farm area. The tank is double-walled and is not located within a containment area. No spills were observed at this location. The tank and self-service dispenser were installed in 2002.

*Aerowest ASTs*

The Aerowest AST area is located immediately north of the single St. George Aviation tank. Three 12,000 gallon tanks (100 LL AvGas and Jet A) and one 3,000 gallon empty tank are contained within the concrete containment area. Cracks were observed in the containment area, as well as open buckets of unknown product, possibly sump test water. A drain is located within the containment area which is connected to PVC piping that has been constructed to drain to the west of the area, near the west side of the ridge. The piping and shut-off valves are broken. Fuel

spills were observed in the containment area, and in the soils and gravel around the containment area (see Appendix B – Photographs). To the west of the containment area is a full, open container (1/2 55-gallon barrel) containing sump test water. Soil stains were observed near the barrel.

#### *Chevron ASTs*

The Chevron AST area is located north of the Aerowest ASTs. Two 12,000 gallon tanks, 100 LL AvGas and Jet A, are contained within a concrete containment area. Standing water was observed, however there was no sheen or odor on the water. A drain is located within the containment area which is connected to PVC piping that has been constructed to drain to the west of the area, near the west side of the ridge. The ends of the pipe are broken. Soil staining was observed just outside of the containment area (west side) near the Jet fuel tank and at the shut-off valve.

#### Bureau of Land Management (BLM) Slurry Storage Tank Area

The BLM maintains a helicopter landing and loading area for fire-fighting purposes. The BLM area is located to the south of the Aerowest building. The 6,000 gallon water storage tank and materials are located on polyvinyl sheeting. The materials stored in the area are Diammonium Sulfate and Diammonium Phosphate granules, which are mixed with water for the slurry. According to Mr. Ulane, there are plans to build a containment area in the Spring of 2003 for the tank and materials. No spills or leaks were observed in this area.

#### Aerowest FBO/Hangar/Maintenance Facility – Exterior and Building Interior

##### *Exterior*

Various pieces of equipment, vehicles, trailers, tanks, and a pallet of batteries are scattered throughout the southwest and west sides of the Aerowest building. There are four old tanks of various sizes that previously held fuel. According to Mr. David Houston, the manager of the Aerowest facility the barrels are empty and are in need of repair.

An open barrel containing sump test water, similar to that seen at the AST farm, was observed southwest of the building in the equipment area. Near the sump water barrel, were several 55 gallon unlabeled barrels. Mr. Houston said that the used oil and sump fuel barrels were hauled off site to a business in St. George.

A waste oil tank on a concrete pad is located to the west of the Aerowest building. Oil has leaked into the soil and gravel to the west of the concrete pad. Oil has been spilled on the concrete pad and the area to the east of the tank (see Appendix B - Photographs). The area of oil stained soils is estimated to be approximately 1,200 square feet. Oil staining was observed several inches below surface soil staining. The depth was not determined.

A small welding shop is located to the north of the waste oil tank. The welding shop was unlocked and visually examined. It appeared to be used for welding purposes only; no spills or leaks were observed in the shop.

Two USTs (#6000181) were removed from the Aerowest property in 1998. The approximate location is shown on Figure 1 and the DEQ/DERR close out letter for the tanks is included in Appendix C. Mr. Houston noted the location of the removed USTs, to the southwest of the Aerowest building.

*Aerowest FBO/Hangar/Maintenance building interior*

The Aerowest building is utilized as a hangar and maintenance shop for the aircraft. The entrance from the southeast door leads into a sitting area/office and then opens into the hangar to the north. Several small rooms located on the south side of the building are used as parts storage and metal cutting, and the room in the southwest corner appears to be used as a machine shop and to clean parts. In general, this room is an area of poor housekeeping.

The following materials were observed in this room:

- batteries stored on pallet
- 1 - 5 gallon container of solvent
- several small containers of paint remover
- several containers of paint, and epoxy without lids
- gear oil
- degreasers
- 8 - 5 gallon containers liquid Hexane
- carburetor cleaners
- 1 - 20 gallon Zep Aircraft Cleaner (Alkaline Cleaner)
- 1 - 55 gallon Toluene
- 1- 55 gallon plastic barrel (almost empty) - appears to be waste oil, however not certain

It appears that several spills have occurred in the southeast corner of the room. An open hole and "cut" concrete, that appeared to be connected to piping, was observed near the door to the southwest entrance of the building. Mr. Houston stated that the opening is the clean-out for the water line and that it is usually capped. When the water line became plugged, the concrete was cut to unplug the line.

Mr. Houston was not aware of the location of the building piping. Outside of the door, near the clean-out hole, a drain approximately 12 inches in depth with a concrete bottom was noted. A 55 gallon barrel of an unlabeled product was stored adjacent and partially on the drain.

The main hangar (within the Aerowest FBO/hangar building) included aircraft in various stages of repair. Aircraft parts are located on the west wall, assorted tanks (oxygen, etc.) and more parts are located on the south wall, and 55 gallon and 5 gallon barrels of various products are located in the southwest corner. The barrels are not stored on pallets and appear to be leaking. Petroleum hydrocarbon odor was noticeable. An absorbent product had been spread in some of the areas where there was leakage.

The following products were observed:

- 36 - 55 gallon barrels of oil, Type A Aviation fuel, and paint remover
- 4 - 55 gallon barrels of oil

- 36 – 5 gallon containers of solvent
- 6 – 5 gallon containers of oil and unknown product

Mr. Ulane reported that the barrels were previously located outside of the building and had recently been moved inside.

#### Aerowest Paint Building

Near the northwest end of the Site, Aerowest leases another building for the purpose of painting aircraft. Good housekeeping practices were in effect in this building. The following materials were observed:

- 2 – 55 gallon barrels, one solvent, one not labeled (west side)
- 3 – 55 gallon barrels, paint remover (south side)
- small quantities of paint

#### Previous City of St. George Dump Area

The dump area is located along the western ridge of the airport property. Dumping has occurred at the edge and over the edge into the ravine below. According to Mr. Ulane and Mr. Johnson, the dump is fenced off to the public at the northwest edge and bottom of the ridge, and has not been used for approximately 40 years.

The following materials were observed:

- asphalt pieces
- wire
- concrete
- timbers
- piping
- cans, glass
- concrete pieces from old airport lighting
- two barrels (south edge of dump)
- aircraft part

The materials observed appear to be construction waste. The barrels were the only potentially hazardous materials observed.

#### Previous Disposal Field Located East of Western Air Service FBO

The area to the east of the existing Western Air Service building and airport road, was observed for evidence of a previous leach field or disposal field. This area was identified in a 1969 airport layout plan as the approximate location of a previous disposal field. Concrete pieces, rebar and a pipe extension were observed. The area is at the edge of the ridge and the material is very rocky (see Appendix B – Photographs). Mr. Johnson reported that the pipe extension was the base of an old sign that had been removed. He also reported that there was not a disposal field located at the airport, to the best of his knowledge and recollection.

### Miscellaneous On-site Observations

No water wells or groundwater monitoring wells are located on the site. Catch basins or retention ponds are located on the west side of the runway, between the City of St. George Maintenance building and Dixie College hangar. During storm events, water collects in the basins.

A small quantity of glycol (approximately 75 gallons/year) is utilized for deicing the aircraft. The glycol is stored on pallets next to the Main Terminal facility.

## 2.0 Interviews

### City of St. George

A telephone interview was conducted on January 2, 2003 with Mr. Dan McArthur, the mayor of St. George. Mr. McArthur's father was present at the time of the interview to also provide historical information. Mr. McArthur has been a resident of St. George for his entire life and was able to provide the following historical information regarding several areas on the airport property:

### *Previous City of St. George Dump Area*

A dump is located on the west side of the St. George Municipal Airport property. It is currently fenced and not in use. Mr. McArthur reported that it was the city dump for St. George in the 1940's and was closed in the 1960's. At that time there were no regulatory requirements for closures of dumps/landfills. Materials that were disposed of at the dump site consisted mainly of trash and metal. The trash was burned at the top of the ridge and any remaining material that did not burn, such as metal or concrete, was pushed over the edge of the ridge. He does not recall that tires were brought to the dump. When asked about environmental concerns at the dump site, Mr. McArthur did not recall any issues.

### *Previous Disposal Field Located East of Western Air Service FBO*

A 1969 site plan of the airport shows a "disposal field" located just east of Western Air Services, near the edge of the ridge. Mr. McArthur reported that a septic system was in place in the 1970's, and possibly even a few years before 1970, as there was a restroom within the old terminal building. An overflow pipe was extended from the leach field to the east edge of the ridge. In the 1970's when there was more activity at the terminal, the system was connected to the sewer. He estimates that the septic tank and leach field were utilized for approximately 10 to 15 years, but does not know if the septic tank was removed when the system was connected to the sewer. There was no equipment maintenance at this location; the system was utilized only for human waste.

When asked about other environmental concerns at the airport, Mr. McArthur reported that there were underground storage tank leaks on the west side of the property, but he thought those were remediated. He did not recall any other environmental concerns.

### Airport Maintenance Personnel

Mr. Johnnie Johnson, the Airport Maintenance Supervisor, was available during a portion of the site visit conducted on December 9, 2002, and provided the following

historical information. Mr. Johnson has been the Maintenance Supervisor since 1990, however has lived in St. George for approximately 33 years.

*Previous City of St. George Dump Area*

Mr. Johnson reported that approximately 60 to 70 years ago, the City of St. George race track and dump were located on the bluff. The City discontinued using the dump site approximately 40 years ago (in the 1960's).

*Previous Disposal Field Located East of Western Air Service FBO*

During the field observations, Mr. Johnson reported that he did not recall that there was a septic system and leach field or disposal field on the airport property, to the best of his knowledge and recollection.

St. George Fire Marshal

A telephone interview was conducted with Mr. Kevin Taylor, the St. George Fire Marshal, on January 3, 2003. Mr. Taylor conducted an inspection of the Aerowest tanks when they were installed. He was unsure of the date of the inspection. He reported that there were some issues regarding Aerowest meeting code and staying in compliance over time. Mr. Taylor reported that there are no AST permits available for any of the ASTs at the airport, or information on the ages of the tanks. He confirmed the following Aerowest tank sizes and fuel types. There are three 12,000 gallon tanks that contain 100 LL AvGAS (1 tank) and Jet A fuel (2 tanks). One 3,000 gallon tank contains regular gas (when filled). He confirmed that the two Chevron tanks were 12,000 gallon tanks of 100 LL AvGAS and Jet A fuel. Three of the Aerowest ASTs and both of the Chevron ASTs are in use.

The Fire Department conducted another inspection of the Aerowest facility on January 13, 2003. The inspection report was not complete and therefore, unavailable. Mr. Taylor reported areas of non-compliance such as spills in and out of the containment area and broken valves on the overflow pipes.

Skywest Personnel

Mr. Eric Christensen, Vice President of Skywest Planning, was contacted on January 3, 2003 regarding site plans for the Aerowest building. Skywest owns the hangar currently occupied by Aerowest, which is subleased by Skywest to Aerowest. The hangar is located on property owned by the City of St. George and leased to Skywest Airlines. Mr. Christensen reported that they do not have a site plan or a floor plan of the building. Mr. Ulane later reported that there are no existing site plans for the Aerowest building, they were destroyed in the 1970's. Therefore, the location of the water and sewer pipes, and the connections of the clean-out hole and outside drain, could not be determined.

Skywest has a 30 year lease that began in 1979, and Mr. Christensen indicated that might be the date the building was constructed.

When asked if he knew if the 55 gallon barrels had been removed from the Aerowest FBO building, he reported that he did not have knowledge of the barrels.

### 3.0 Regulatory Records Review

#### Environmental Database Search

Stantec contracted for two environmental database searches by VISTA Information Solutions and Environmental FirstSearch. The most current database records search prepared by Environmental FirstSearch dated August 14, 2002 (Appendix F, Stantec Report).

The Environmental FirstSearch report noted the location of one Leaking Underground Storage Tank (LUST) site, #6000248 Skywest Aviation Inc. (existing Western Air Services), within the project area. Two UST sites, #6000248 Skywest Aviation and #6000181 Skywest Aviation Inc., were listed within the project area (the LUST and UST site #6000248, is the same location; a tank overfill release occurred at the site). The report indicates that the LUST site was closed and USTs were removed at the two UST sites.

Two Resource Conservation and Recovery Act (RCRA) sites are listed: Federal Express Corporation and Skywest. Both sites are listed as small quantity generators of hazardous materials and no violations are recorded. The summary report is included in Appendix C.

#### Utah Department of Environmental Quality/Division of Environmental Response and Remediation (DEQ/DERR)

Records were reviewed by PB personnel at the DEQ/DERR office. Copies of the records were provided to Mr. Ulane and are included in Appendix C.

Records for the LUST site #6000248, (previously Scenic Airlines/Skywest, currently Western Air Service), indicate that there was a tank overfill release of approximately 78 gallons of Jet A fuel in 1992. Some of the fuel was recovered and the remaining petroleum contaminated soils were excavated and aerated on-site. Approximately two months later, a soil sample was collected and analyzed. Sample results were below the detection limits for the petroleum constituents analyzed. As a result of the testing, DEQ/DERR recommended the site be closed in 1995. Documentation substantiating the closure of the LUST site at the current Western Air Services is included in Appendix C.

Records for UST site #6000248, (previously Scenic Airlines/Skywest, currently Western Air Service), indicate that there were four USTs at that site, two were removed (2-12,000 gallon tanks, 100LL and Jet A fuel) and two were closed in place (1-8,000 and 1-10,000 gallon AvGAS) in 1996. Records for UST site #6000181, currently Aerowest, indicate that two USTs (1-8,000 and 1-10,000 gallon AVGAS) were removed in 1998. Closure letters from DEQ/DERR for both UST sites are included in Appendix C.

The 1994 Airport Layout Plan (included in the Stantec report) shows the location of USTs as "tanks buried" northwest of the Dixie College hangar. As part of the regulatory review process, DEQ/DERR records were requested for USTs at or near that location. No UST or LUST records are on file at the DEQ/DERR office for the Dixie College hangar location. Mr. Ulane reported that he did not have knowledge of any USTs at that location.

The Utah Landfill Inventory and Utah Closed Landfills lists were reviewed and are included in Appendix C. The dump (landfill) located at the St. George Municipal Airport is not listed on either one of these inventories, most likely due to the age of the landfill. The City of St. George used the area to dump construction waste from approximately 1940 to 1960, prior to regulations requiring that landfills be permitted.

#### 4.0 Conclusions and Recommendations

Based on the review of Stantec's Phase I ESA report, a site visit, interviews, and a records review at the DEQ/DERR office, PB has prepared the following conclusions and recommendations.

##### City of St George Maintenance Building

PB does not recommend further investigation at this facility.

##### Above Ground Storage Tank Farm (Aerowest and Chevron)

Drains are located within the Aerowest and Chevron containment areas. The overflow pipes and valves connected to the drain are broken. This may allow spilled fuel to drain out of the containment area onto the ground surface.

Cracks were observed in the concrete of the Aerowest containment area. Petroleum hydrocarbon stained soils were observed at the east and west ends of the containment area. The sump test water barrel was open and full, and there appeared to be spills around the barrel.

PB recommends the following maintenance and repair activities:

- Re-establish the integrity of the containment area by sealing the cracks
- Repair overflow pipes and valves or close drains
- Establish protocol for sump water testing and maintenance of tanks and containment area
- Provide closed 55 gallon barrel for sump water test disposal

PB recommends that soil be sampled at the east and west ends of the Aerowest containment area. Collect and analyze soil samples for petroleum hydrocarbon constituents at ground surface and at various depths, 2 feet and 4 feet if possible (using a hand auger) at both ends of the containment area and near the sump test barrel.

PB recommends that soil samples be collected and analyzed for hydrocarbon constituents at the west side of the Chevron containment area and at the shut-off valve.

##### Bureau of Land Management (BLM) Slurry Storage Tank Area

PB does not recommend further investigation at this facility.

### Aerowest FBO/Hangar/Maintenance Facility - Exterior Building and Interior

Several areas of concern were noted within the interior of the Aerowest facility, as well as the exterior of the facility.

PB recommends the following:

- Remove the 55 gallon barrels of fuel from the hangar
- Cap the clean-out pipe in the parts cleaning room
- Move all barrels and containers from drain areas
- Provide a containment area for the storage of barrels and containers of fuel and solvents
- Conduct a surface and subsurface soil sampling program for the waste oil area, as the area is heavily stained

PB recommends only soil sampling at the Site. Soil samples would be analyzed for petroleum hydrocarbons and solvents. It is common for solvents to be dumped into a waste oil tank.

The St. George Fire Department conducted an inspection of the Aerowest FBO facility on January 13, 2003. The inspection report was not available at the time that this Supplemental Report was prepared. PB recommends that the City of St. George request the inspection report from the fire department.

### Aerowest Paint Building

PB does not recommend further investigation at this facility.

### Previous City of St. George Dump Area

According to Mr. Ulane, materials from the previous dump area will be removed in the near future. Construction materials can be disposed of in the existing landfill. PB recommends that the barrels and containers be examined for product and labels, and disposed of properly. PB recommends that barrels or containers containing product, without labels, be sampled and analyzed according to the recommendations of the nearest landfill that accepts hazardous materials.

### Previous Disposal Field Located East of Western Air Service FBO

As there were no aircraft maintenance activities conducted at this location, and the leach field was only utilized for the purposes of the restroom facility (natural waste), the potential for contamination at this location is very minimal. PB does not recommend further investigation at this location.

### Private Hangars

PB recommends that the City of St. George review their private hangar lease agreements and consider requiring annual inspections to reduce potential fire hazards and potentially adverse impacts from the use and storage of hazardous materials.

## 5.0 Standard Limitations

The conclusions contained in this report/assessment are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeology and engineering standards and practices applicable to this location and are subject to the following limitations:

Accuracy of Information. Certain information utilized by PB in this report/assessment has been obtained, reviewed, and evaluated from various sources believed to be reliable, including the UDEQ, and the previously discussed interviews. Although PB's conclusions and opinions are based, in part, on such information, PB's services did not include the verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, PB reserves the right to amend or revise its conclusions and/or opinions.

Reconnaissance. PB performed a reconnaissance of the Site. PB focused on areas deemed more likely to exhibit hazardous materials conditions while other areas received limited attention or were inaccessible at the time of our reconnaissance.

Limitations. Because PB's report is based upon information, the accuracy of which has not been determined, and because PB's observations made during site reconnaissance are limited as provided above, PB cannot and does not guarantee that the site is free of hazardous or potentially hazardous materials or conditions, or that latent or undiscovered conditions will not become evident in the future. Since Site activities beyond our control could change at any time after the completion of this report/assessment our observations, finding and opinions can only be considered valid as of the hereof.

PB's assessment does not evaluate structural conditions of any buildings on the subject property or regulatory compliance issues. PB did not assess the site for the potential of asbestos, lead-based paint, radon gas, wetlands or evaluate the off-site disposal of wastes, and PB did not evaluate the liability/risk presented by any recognized environmental conditions at the Site.

## FIGURES

## Figure 2 - Private Hangar Facilities

Figure 2-A: Southwest side hangar facilities



Figure 2-B: East side hangar facilities

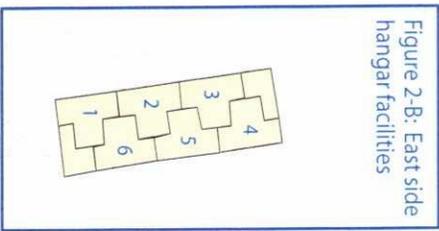
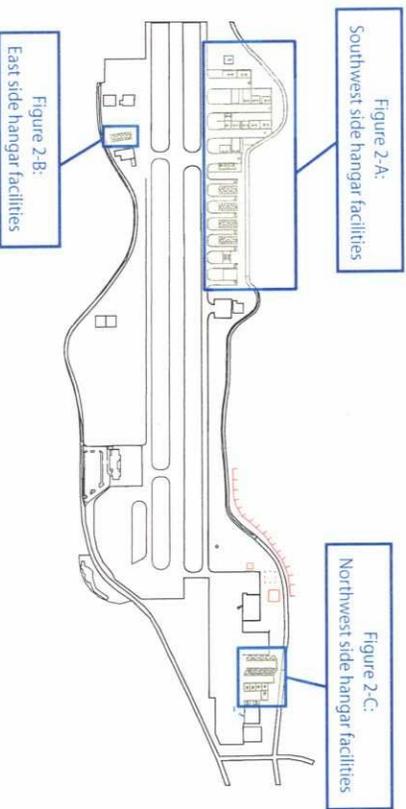
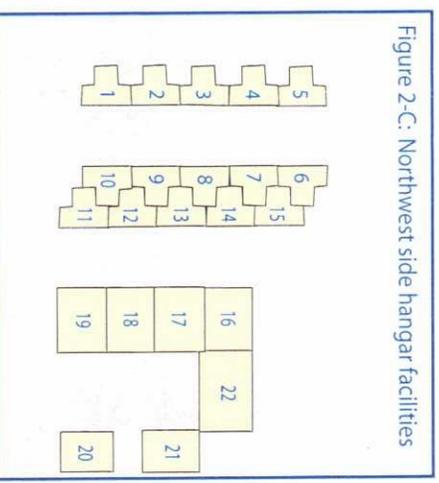


Figure 2-C: Northwest side hangar facilities



### Supplemental Report

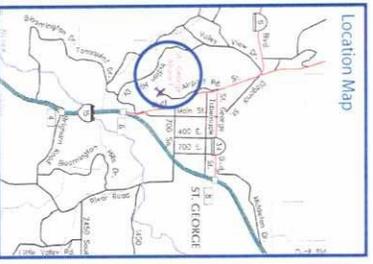
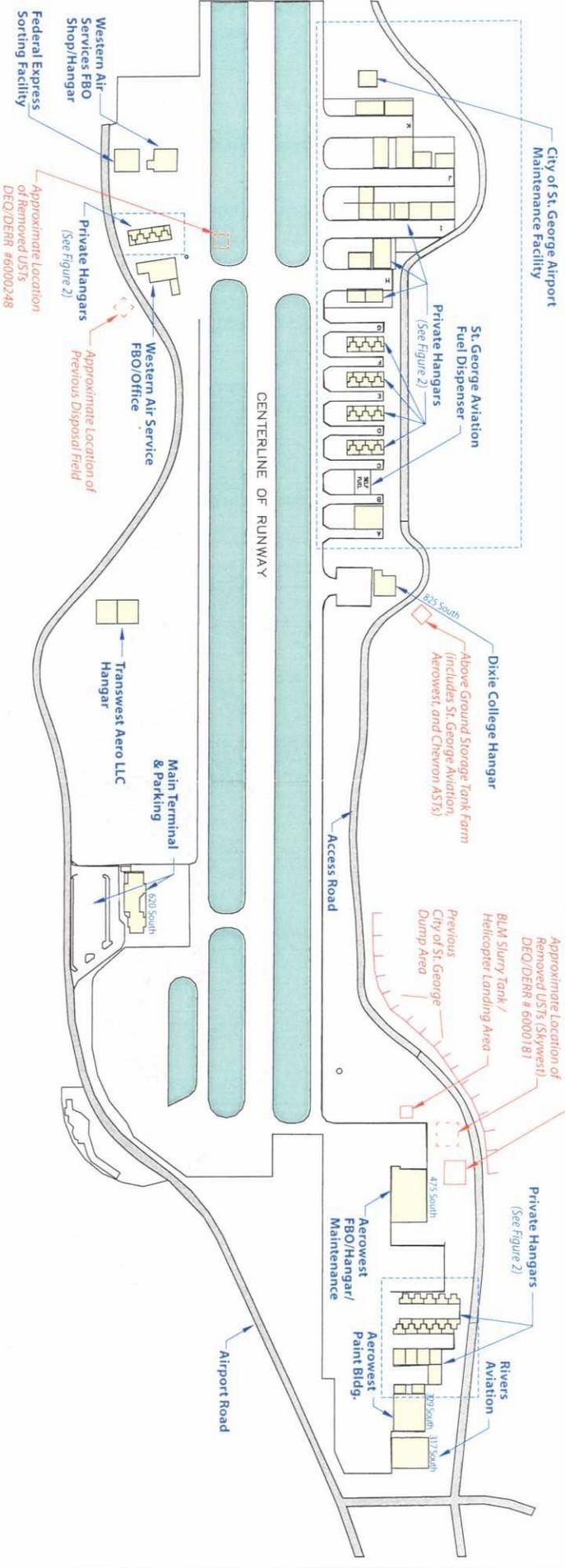
Phase I Environmental Site Assessment  
St. George Airport  
St. George, Utah

PB Project No.: 22690

Figure 2  
Private Hangar  
Facilities

Please see Appendix A for a list of corresponding tenants.

**Figure 1 - Airport Site Plan**



Note: Please see Figure 2 for identification numbers of private hangars. Please see Appendix A for a list of corresponding tenants.



<b>Supplemental Report</b>	
Phase I Environmental Site Assessment St. George Airport St. George, Utah	
PB Project No.: 22690	Figure 1 Airport Site Plan

**APPENDIX A**  
**AIRPORT TENANTS**

## East Side Tenant Key

<b>Number/Address</b>	<b>Lessee</b>	<b>Tenant</b>	<b>Present Use</b>
620 S. Airport Rd.	City of St. George	Various	Airline Terminal
808 S. Airport Rd.	TransWest Aero	Doug Glendenning	Private Aircraft Storage
E-1	City of St. George	Western Air Services	FBO Terminal/Office
T-Hangars 1-6	Lynn Ginocchio	Various	Private Aircraft Storage
E-2	Lynn Ginocchio	Federal Express	Air Freight Sorting Facility
E-3	Lynn Ginocchio	Western Air Services	FBO Maintenance/Storage Hangar

## Southwest Side Tenant Key

<b>Number/Address</b>	<b>Lessee</b>	<b>Tenant</b>	<b>Present Use</b>
825 S. Donlee Dr.	Dixie State College	Same	Private Aircraft Storage/Maintenance
A-1	Dan Smith	Same	Private Aircraft Storage/Maintenance
Self Fuel	Chris Peterson	Same	Self Serve 100LL Pump
C/D 7-10	Ferrill Davis	Various	Private Aircraft Storage
D/E 1-5	Ferrill Davis	Various	Private Aircraft Storage
E/F 7-10	Amicorp	Various	Private Aircraft Storage
F/G 1-5	Amicorp	Various	Private Aircraft Storage
H-1	Douglas Baker	Same	Private Aircraft Storage
H-2	Mercer Management	Same	Private Aircraft Storage
H-3	Jim Leone	Same	Private Aircraft Storage
H-4	Dean Gustavson	Same	Private Aircraft Storage
I-2	Vacant	None	None
I-4	Grant Carter	Same	Private Aircraft Storage
I-6	Loni Morgan	Same	Private Aircraft Storage
I-8	Michael Seal	Same	Private Aircraft Storage
I-10	Creed Evans	Same	Private Aircraft Storage
J-2	Stephen Howcroft	Same	Private Aircraft Storage
J-4	Dick Rein	Same	Private Aircraft Storage
J-6	James Lundberg	Same	Private Aircraft Storage
J-8	Terry Bland	Same	Private Aircraft Storage
J-9	Stephen Roundy, Sr.	Same	Private Aircraft Storage
K-2	Tom Clark	Same	Private Aircraft Storage
K-4	Stephen Roundy, Jr.	Same	Private Aircraft Storage
City	City of St. George	Same	Airport Maintenance Facility

## Northwest Side Tenant Key

Number/Address	Lessee	Tenant	Present Use
317 S. Donlee Dr.	Rivers Aviation	Same	Maintenance/Storage Hangar
329 S. Donlee Dr.	Glen Bundy	AeroWest Aviation	Aircraft Paint Booth/Storage/Maintenance
1	Larkin and McArthur Partnership	Same	Private Aircraft Storage
2	Larkin and McArthur Partnership	Same	Private Aircraft Storage
3	Larkin and McArthur Partnership	Same	Private Aircraft Storage
4	Larkin and McArthur Partnership	Same	Private Aircraft Storage
5	Sheldon Hangars	Same	Private Aircraft Storage
6	Sheldon Hangars	Same	Private Aircraft Storage
7	Sheldon Hangars	Same	Private Aircraft Storage
8	Brent Bice	Same	Private Aircraft Storage
9	Kenneth Bills	Same	Private Aircraft Storage
10	Sheldon Hangars	Same	Private Aircraft Storage
11	Sheldon Hangars	Same	Private Aircraft Storage
12	Larkin and McArthur Partnership	Same	Private Aircraft Storage
13	Larkin and McArthur Partnership	Same	Private Aircraft Storage
14	Sheldon Hangars	Same	Private Aircraft Storage
15	Sheldon Hangars	Same	Private Aircraft Storage
16	Hal Hilburn	Same	Private Aircraft Storage
17	Darrell Stucki	Same	Private Aircraft Storage
18	Monarch Investments	Same	Private Aircraft Storage
19	Sean LeGere	Same	Private Aircraft Storage
20	Bob Stebbins	Same	Private Aircraft Storage
21	Bob Stebbins	Same	Private Aircraft Storage
22	Quentin Ence	Same	Private Aircraft Storage
475 S. Donlee Dr.	SkyWest Airlines	AeroWest Aviation	FBO Maintenance/Storage Hangar

**APPENDIX B**  
**PHOTOGRAPHS**



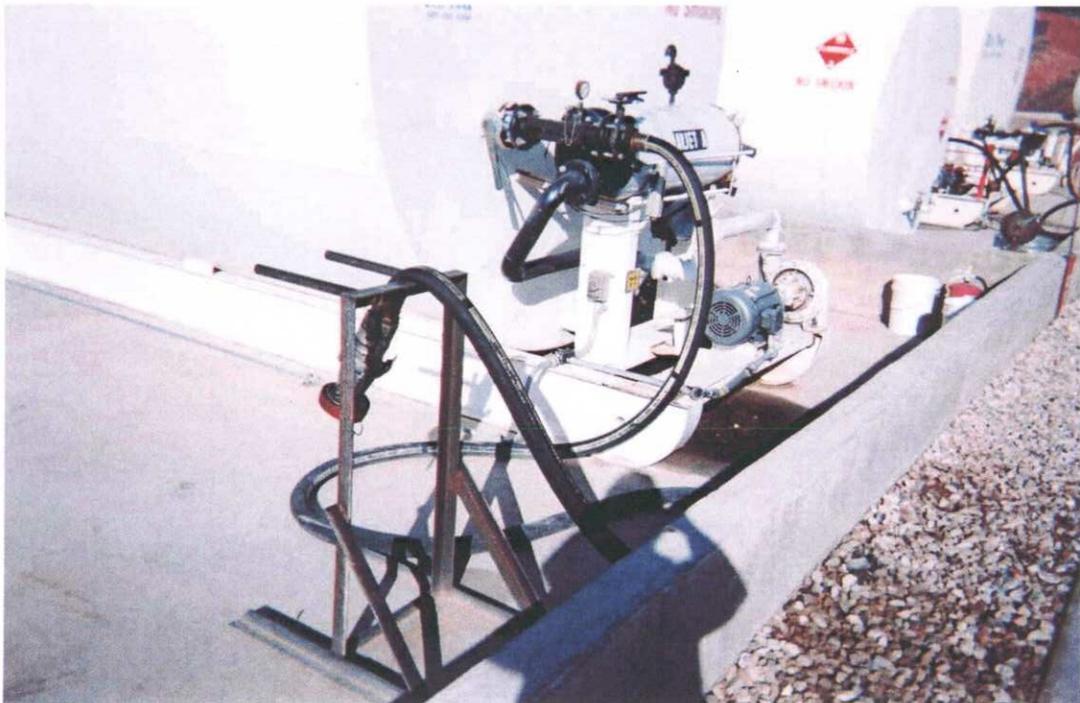
Approximate location of previous leach field “disposal field” to the east of the Western Air Services building (looking north)



St. George Aviation fuel dispenser (looking west)



St. George Aviation aboveground storage tank – steel, double-walled (looking northwest)



Aerowest Tank Farm (looking northwest) – leaks/spills within and outside of containment area



Damaged valve and overflow pipe from containment area (looking northwest)  
Sump test water barrel located west of containment area



Chevron Tank Farm (looking north) – soil staining outside of containment area and next to shut-off valve



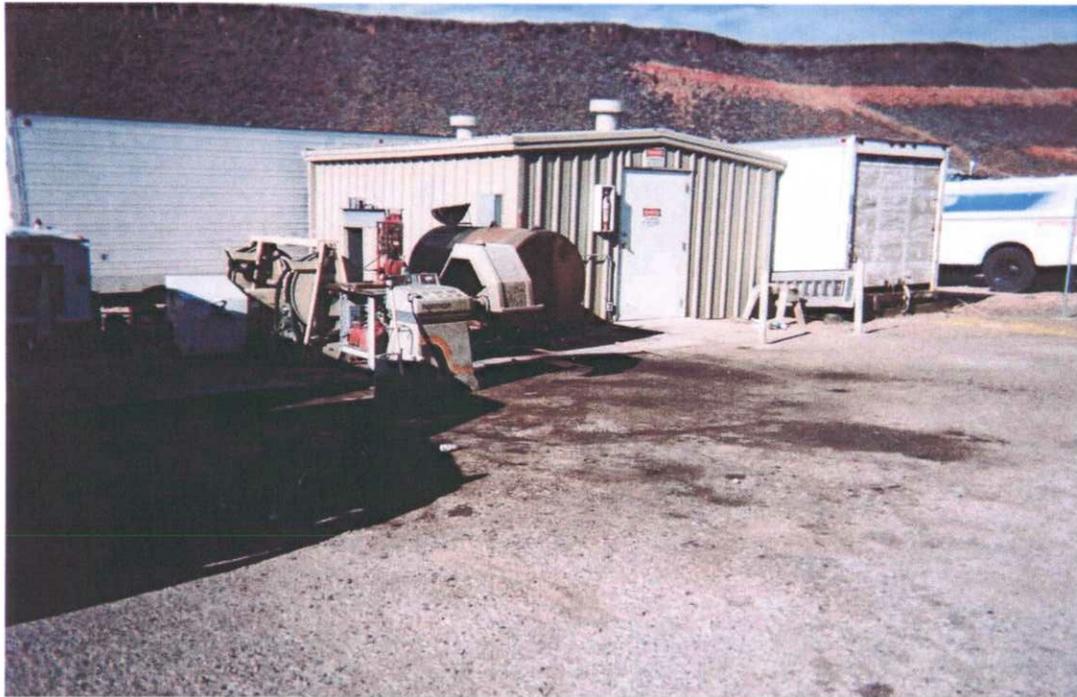
Looking north at previous dump area and Aerowest building (from tank farm location)



BLM slurry storage tank (looking west)



Sump test water barrel located southwest of Aerowest building (looking northeast)



Stained soils, waste oil tank and welding shop located west of Aerowest building (looking west-northwest)



Waste oil tank, miscellaneous equipment, and batteries on pallets, located west of Aerowest building (looking east)

**APPENDIX C**

**UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF ENVIRONMENTAL RESPONSE AND  
REMEDICATION  
UST CLOSURE RECORDS**



DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

*Bill*

FILE COPY

Michael O. Leavitt  
Governor  
ne R. Nielson, Ph.D.  
Executive Director  
Kent P. Gray  
Director

168 North 1950 West  
P.O. Box 144840  
Salt Lake City, Utah 84114-4840  
(801) 536-4100  
(801) 359-8853 Fax  
(801) 536-4414 T.D.D.  
www.deq.state.ut.us Web

ERRU-759-98

November 18, 1998

David Houston  
Aero West Jet Center  
475 South Donlee Drive  
St. George, Utah 84770

RE: Underground Storage Tanks (USTs)  
Located at Old Skywest Aviation, 475 South Donlee Drive, St. George, Utah  
Facility ID #6000181, Tanks 1 and 2

Dear Mr. Houston:

A review of the information you have submitted in the closure notice received on October 30, 1998, for the above referenced USTs, indicates that no corrective action is required at the site at this time. The information you have submitted indicates that any detectable petroleum contamination at the site complies with state UST rules. Based upon these rules there appears to be no threat to human health or the environment.

Corrective action may be needed in the future if contamination is found that threatens human health or the environment. Please contact **William Moore** at (801) 536-4100, if you have any questions regarding this matter.

Sincerely,

Kent P. Gray, Executive Secretary (UST)  
Utah Solid and Hazardous Waste Control Board

KPG/WEM/kf

**UNDERGROUND STORAGE TANK PERMANENT CLOSURE NOTICE (Revised 01/01/97)**

Facility ID # 6000181

State Use Only	
Date Processed	<u>11/12/98</u> by <u>W/E</u>
Date Mailed to LHD	<u>N/A</u>
Samples in LUST File #	_____
Samples to LUST Review	_____
LUST Status	<u>USA NFA Non-detect 11/12/98</u>

Closure Notice prepared at the request of the owner/operator (identified below) by Phil Sargent  
of (company name) Petro West Phone # (435) 634-9557  
Address 705 No. Bluff #3 City St. George State Ut Zip 84770

**FACILITY INFORMATION**

Tank Owner Aero West Jet Center Phone # (435) 674-0605

[ ] sole proprietorship [ ] partnership [ ] corporation

Address 475 So. Donlee Drive City St. George State Ut Zip 84770

Facility Name Aero West Jet Center

Address 475 So. Donlee Drive City St. George State Ut Zip 84770

Contact person David Houston Phone # (435) 674-0605

Number of regulated tanks at the facility before closure: 2

Number of regulated tanks at the facility after closure: 0

**TANKS CLOSED**

Tank #	1	2					
Date Installed							
Capacity	<u>8,000</u>	<u>10,000</u>					
Substance stored	<u>Ab Gas</u>	<u>Ab Gas</u>					
Date last operated	<u>2-98</u>	<u>2-98</u>					
Date closed	<u>2-20-98</u>	<u>2-20-98</u>					
How closed (Removed/In place)	<u>Removed</u>	<u>Removed</u>					

\* Indicate the specific substance stored in each tank to be closed (regular, unleaded, diesel, waste oil, etc.)

TANK REMOVER Name Keith Phillips Cert. # TR-0332 Exp. date 11-99

Company Petro West Phone # (435) 634-9557

Address 705 No. Bluff #3 City St. George State Ut Zip 84770

SOIL/GROUNDWATER SAMPLER Name Keith Phillips Cert. # GS-1043 Exp. date 2-2000

Company Petro West Phone # (435) 634-9557

Address 705 No. Bluff #3 City St. George State Ut Zip 84770

SECURE INFORMATION

Fuel was emptied     Sludge was removed     Tank was cleaned.  
 Tank was:     Purged     Inerted. Method Used: Dry Ice  
 Location of Closure Records Owner  
 In-Place Closure: tanks filled with N/A  
 For Change-In-Service: Substance to be stored N/A

DISPOSAL SITES USED:

	Location Name	Contact Name	Phone #	Date	Amount
Tank(s)	<u>left on site</u>	<u>David Boston</u>	<u>674-0605</u>	<u>2-20-98</u>	<u>Tank # 2</u>
Product From Tank(s)	<u>None</u>				<u>gal</u>
Contaminated Water From Tank Cleaning	<u>None</u>				<u>gal</u>
Sludge	<u>None</u>				<u>gal</u>
Contaminated Water From Excavation	<u>None</u>				<u>gal</u>
Contaminated Soil	<u>None</u>				<u>yd<sup>3</sup></u>

Is any contaminated soil which was over-excavated still on-site?     Yes     No     Not applicable

Was Free Product encountered during closure activities? No If yes, please indicate thickness, \_\_\_\_\_ Inches

SITE ASSESSMENT

Complete the Facility Site Plat (Closure Notice) and Sample Information Table (Closure Notice) on pages 3 and 4 to show the locations, depths, and other information on all soil/groundwater samples taken for closure. The samples must be consistently identified by sample ID # on the site plat, table, and lab analysis report.

- Completed Facility Site Plat (Closure Notice) is attached.  
 The following must be included (enter the distance, and direction (N,S,E,W) from the area of contamination or, where applicable, use OH for overhead, NP for not present):  
 Water Line     Sewer Line     Natural Gas     Storm Drain     Telephone     Electrical     Property Line     Buildings
- Completed Sample Information Table (Closure Notice) is attached.  
 Certified lab analytical environmental sample results are attached.  
 Unified Soil Classification (USC) sample results are attached.  
 Chain of Custody form is attached.  
 Samples were properly:     Collected     Labeled     Packaged     Transported  
 Samples were in sight of the person in custody at all times or in a secured locked place.

I certify under penalty of law that the closure site assessment at this facility was conducted in accordance with R311-202 (parts 280.52 and 280.72) and R311-205 U.A.C., and that any additional samples required by R311-202 parts 280.52 and 280.72 and R311-205-2(a)(1) were properly collected.

Signature of Certified Groundwater/Soil Sampler [Signature]  
 Full name of Certified Sampler Kurt A. Phillips    Date 10/30/98

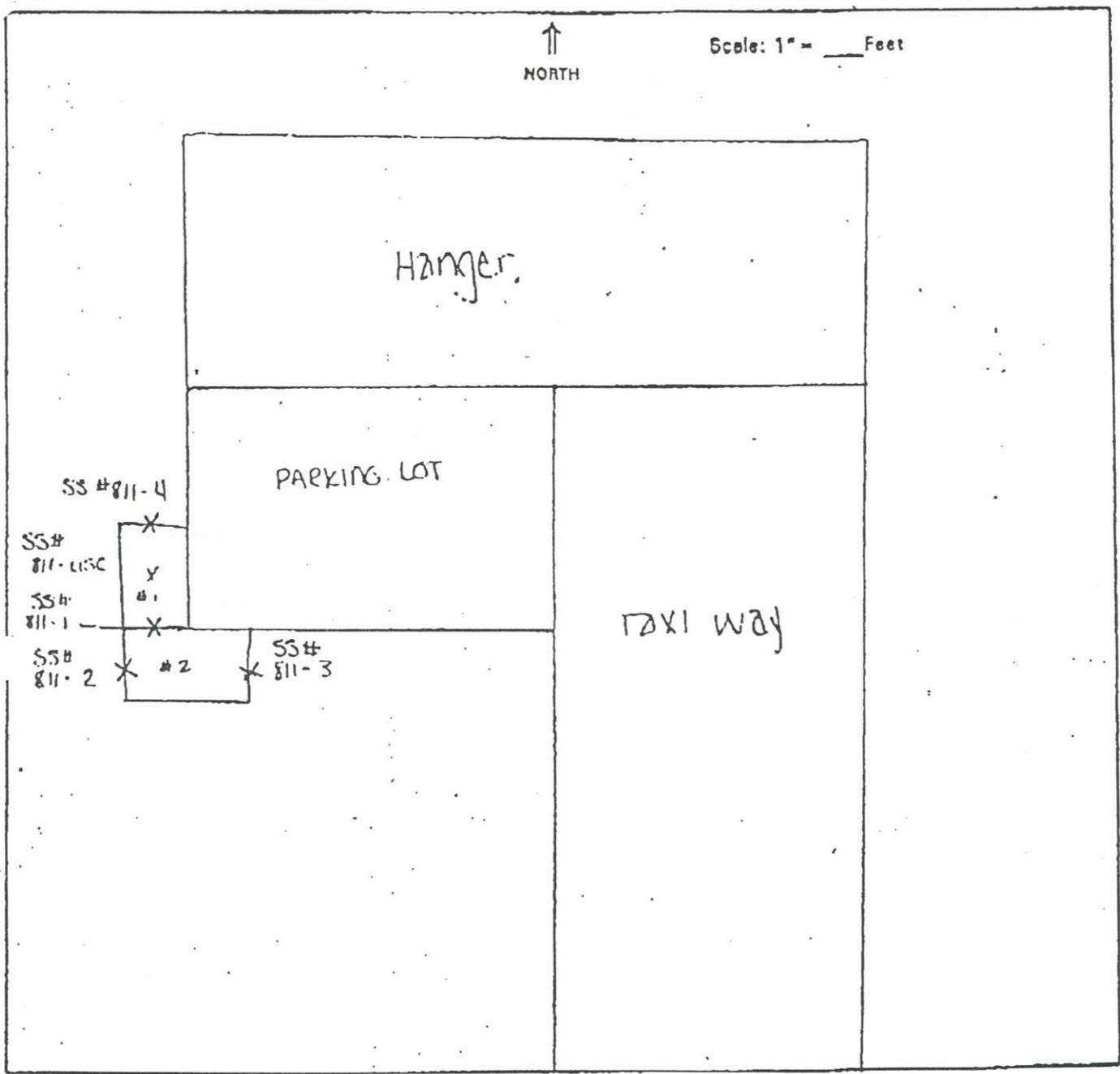
If contamination at the facility is confirmed, any person providing remedial assistance for a fee must be a Certified UST Consultant. The Certified UST Consultant providing assistance is:

CERTIFIED UST CONSULTANT Name N/A    Cert. # CC    Exp. date \_\_\_\_\_  
 Company \_\_\_\_\_    Phone # (    ) \_\_\_\_\_  
 Address \_\_\_\_\_    City \_\_\_\_\_    State \_\_\_\_\_    Zip \_\_\_\_\_

**FACILITY SITE PLAT (CLOSURE PLAN)**

The site plat must be drawn to an appropriate identified scale. It must show planned sampling locations, substances stored in tanks, and other relevant information. Tank and sample identification numbers must be consistent with the information given on p. 1 and 5 of the Closure Plan.

Facility ID # \_\_\_\_\_ Drawn By \_\_\_\_\_ Date \_\_\_\_\_



- X = Sample locations (SS-#, WS-#, USC-#)
  - = Monitoring Wells (MW-#)
  - = Soil boring (SB-#), or Geoprobe Boring (GP-#)
  - = Water Wells (domestic, livestock, etc.)
- Slope of Surface Topography: (N,NW,W,SW,S,SE,E,NE)  
 Land Use At Site:    Residential    Commercial    Industrial  
 Surrounding Land:    Residential    Commercial    Industrial

- Site Plat Must Indicate Approximate Locations Of:**
- ✓ Current & former tanks, piping & dispensers
  - ✓ Location of all samples to be taken
  - ✓ Buildings, fences, & property boundaries
  - ✓ Utility conduits (sewers, gas, water, storm drains, electrical, etc.)



# State of Utah

# FILE COPY

DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

Michael O. Leavitt  
Governor

Dianne R. Nielson, Ph.D.  
Executive Director

Kent P. Gray  
Director

168 North 1950 West  
P.O. Box 144840  
Salt Lake City, Utah 84114-4840  
(801) 536-4100 Voice  
(801) 359-8853 Fax  
(801) 536-4414 T.D.D.

ERRU-665-96

January 9, 1997

Mr. John Wall  
Scenic Airlines, Incorporated  
475 South Donlee Drive  
St. George, Utah 84770

RE: Underground Storage Tanks (USTs) at Skywest Aviation, St. George, Utah  
Facility ID. # 6000248, Tanks #1, #2, #3, and #4

Dear Mr. Wall:

A review of the information you have submitted in the closure notice received on December 17, 1996, for the above referenced UST(s), indicates that no corrective action is required at the site at this time. The information you have submitted indicates that any detectable petroleum contamination at the site complies with state underground storage tank rules. Based upon these rules there appears to be no threat to human health or the environment.

Corrective action may be needed in the future if contamination is found that threatens human health or the environment. Please contact Mark Bartleson at (801) 586-2437, if you have any questions regarding this matter.

Sincerely,

Kent P. Gray, Executive Secretary (UST)  
Utah Solid and Hazardous Waste Control Board

KPG/MB/jd



UNDERGROUND STORAGE TANK CLOSURE NOTICE (Revised 03/01/93)

Facility ID # 6000248

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

DEC 17 1996

DIV. OF ENVIRONMENTAL RESPONSE AND REMEDIATION  
SW DISTRICT OFFICE

State Use Only	
Date Processed	<u>12/18/96</u> by <u>RAJ</u>
Date Mailed to LHD	
Samples in LUST File #	
Samples to LUST Review	<u>NEA started 12/18/96</u>

Closure Notice prepared at the request of the owner/operator (identified below) by Guy Skougaard  
of (company name) SKOUGAARD + SONS Phone # (801) 586-6075  
Address 734 W. 4475 W. City CEDAR CITY State UT Zip 84720

FACILITY INFORMATION

Tank Owner Scenic Airlines Inc. Phone # (801) 628-0481  
 dba (individual doing business as)  sole proprietorship  partnership  corporation  
 Address 475 So. Donlee Dr. City St George State UT Zip 84770  
 Facility Name Scenic Airlines  
 Address 475 So. Donlee Dr. City St George State UT Zip 84770  
 Contact person John Wall Phone # (801) 628-0481  
 Number of regulated tanks at the facility before closure: 4  
 Number of regulated tanks at the facility after closure: 2

TYPE OF CLOSURE  Permanent  Temporary  Change-In-Service

Permanent or Change-In-Service  Fuel was emptied  Sludge was removed  Tank was cleaned.

Tank was:  Purged  Inerted. Method Used: DRY ICE

Location of Closure Records 475 So Donlee Dr. St George, UT

For in-place closure: tanks filled with 2 BAG MIX SLURIE

Substance to be stored for Change-In-Service \_\_\_\_\_

Temporary  Fuel was emptied.  Corrosion protection is operating.  Release detection equipment is operating.

Residue depth remaining in tank \_\_\_\_\_ inches, or \_\_\_\_\_ % by weight of total capacity of UST.

3 months:  Vent lines open Cap/Secure:  lines  pumps  manways

12 months:  Permanently closed  New/Upgraded  Extension request

TANKS CLOSED

Tank #	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>				
Age of tank			<u>18 yr</u>	<u>13 yr</u>				
Capacity	<u>8,000</u>	<u>10,000</u>	<u>12,000</u>	<u>12,000</u>				
Subs. stored*	<u>UNLEAD</u>	<u>AVIATION 100LL</u>	<u>AVIATION 100LL</u>	<u>AVIATION 100LL</u>				
Date last used	<u>8-22-96</u>	<u>8-22-96</u>	<u>8-26-96</u>	<u>June '95</u>				
Date closed	<u>8-22-96</u>	<u>8-22-96</u>	<u>8-26-96</u>	<u>8-29-96</u>				
Rmvd/In place	<u>IN PLACE</u>	<u>IN PLACE</u>	<u>Rmvd</u>	<u>Rmvd</u>				

\* Indicate the specific substance stored in each tank closed (regular, unleaded, diesel, waste oil, etc.)

TANK REMOVER Name Guy Skougaard Cert. # TR 0107 Exp. date 10/97  
Company SKOUGAARD + SONS Phone # (801) 586-6075  
Address 734 N. 4475 W City CEDAR CITY State UT Zip 84720

SOIL/GROUNDWATER SAMPLER Name Guy Skougaard Cert. # GS0113 Exp. date 2/98  
Company SKOUGAARD + SONS Phone # (801) 586-6075  
Address 734 N. 4475 W. City CEDAR CITY State UT Zip 84720

**DISPOSAL SITES USED:**

Tank: Svensen Metal Date 9-1996 Number 2  
Product from Tank: NONE Date / Amount /  
Contaminated water from tank cleaning: ADVANCE PETRO Date 9/96 Amount 30 GAL  
Sludge: NONE Date / Amount /  
Contaminated Water: NONE Date / Amount /  
Contaminated Soil: / NONE Date / Amount /  
Is any contaminated soil which was overexcavated still on site? Yes No  Not applicable

**SITE ASSESSMENT**

Complete the Facility Site Plat (Closure Notice) and Sample Information Table (Closure Notice) on pages 3 and 4 to show the locations, depths, and other information on all soil/groundwater samples taken for closure. The samples must be consistently identified by sample ID # on the site plat, table, and lab analysis report.

- Completed Facility Site Plat (Closure Notice) is attached.
- Completed Sample Information Table (Closure Notice) is attached.
- Certified lab analytical environmental sample results are attached.
- Unified Soil Classification (USC) sample results are attached.
- Chain of Custody form is attached.

Samples were properly:  Collected  Labeled  Packaged  Transported  
 Samples were in sight of the person in custody at all times or in a secured locked place.

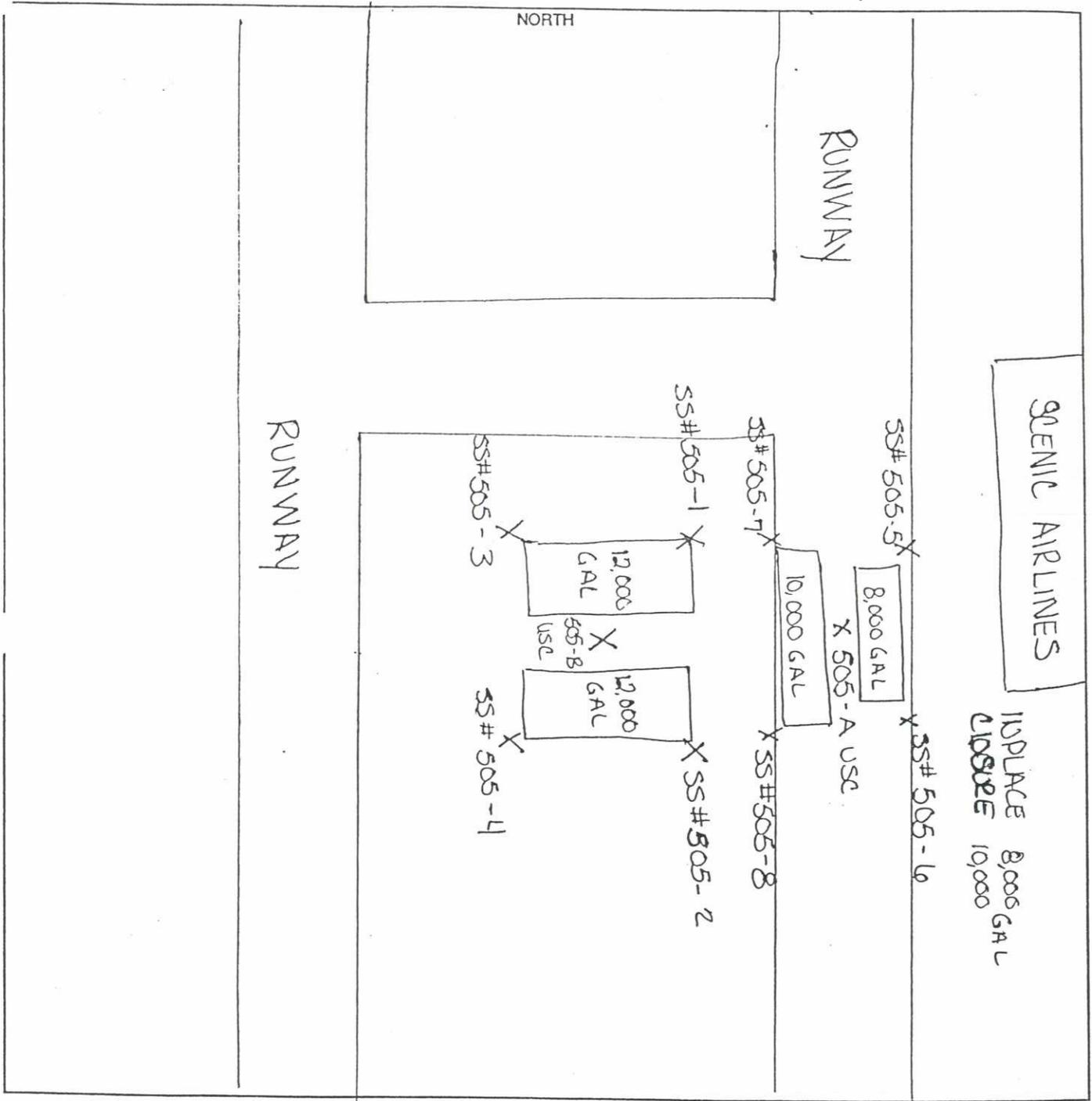
I certify under penalty of law that the closure site assessment at this facility was conducted in accordance with R311-202 (parts 280.52 and 280.72) and R311-205 U.A.C., and that any additional samples required by R311-202 (parts 280.52 and 280.72) and R311-205-2(a)(1) were properly collected.

Signature of Certified Groundwater/Soil Sampler Guy Skougaard  
Full name of Certified Sampler Guy Skougaard Date 11-1-96

**FACILITY SITE PLAN**

Site plan must be drawn to an appropriate identified scale. It must show planned sampling locations, substances stored, and other relevant information. Tank and sample identification numbers must be consistent with the information given in Section 5 of the Closure Plan.

Facility ID # 6000248 Drawn By \_\_\_\_\_ Date \_\_\_\_\_



- X = Sample locations (SS-#, WS-#, USC-#)
- ⊗ = Monitoring Wells (MW-#)
- = Soil boring (B-#)
- = Water Wells (domestic, livestock, etc.)

**Site Plat Must Indicate:**

- ✓ Current & former tanks, piping & dispensers
- ✓ Location of all samples to be taken
- ✓ Buildings, fences, & property boundaries
- ✓ Utility conduits (sewers, gas, water, storm drains, electrical)
- ✓ Land use (residential, commercial or industrial)

Complete table for all samples that were taken for closure. Sample with the sample ID numbers given on the site plat and in the lab analysis report.

Sample #/Lab ID#	Sub. stored	Spl. type <sup>1</sup>	Depth <sup>2</sup>	Compounds <sup>3</sup>	Analysis method(s) <sup>4</sup>
505-1	AVIATION 100LL	SOIL	12'	TPH / BTEX	8020 / 8015
505-2	AVIATION JET A	"	12'	" "	" "
505-3	AVIATION 100LL	"	12'	" "	" "
505-4	AVIATION JET A	"	12'	" "	" "
505-5	UNL	"	14'	" "	" "
505-6	UNL	"	14'	" "	" "
505-7	AVIATION 100LL	"	14'	" "	" "
505-8	AVIATION 100LL	"	14'	" "	" "
505-A		USC	14'	USC	USC
505-B		USC	12'	USC	USC

- <sup>1</sup> Soil (SS), Groundwater (GW), or Unified Soil Classification (USC).
- <sup>2</sup> Final depth (in feet) below grade at which samples were taken.
- <sup>3</sup> Contaminant compound(s) analyzed for each sample (TPH, BTEXN, O&G, etc).
- <sup>4</sup> Appropriate analysis methods for contaminant compound(s) in each sample (8015 mod., 8020, 413.1, etc).

State Certified Laboratory used: AMERICAN WEST  
 Address 4103 W. 3600 SO. City SLC State UT Zip 84162  
 Contact person OFFICE Phone # (801) 263 8686

Please explain any unusual or extenuating circumstances encountered during the site assessment or closure:  
 \_\_\_\_\_  
 \_\_\_\_\_

I certify under penalty of law that I am the Owner of the tank(s) described above and that I am familiar with the information on this form and that it is true, accurate and complete and further, that the procedures described herein were followed during tank closure.

Signature of UST Owner [Signature]  
 Full name of Owner Scenic Airlines Inc. Date 2-29-96

Return completed Closure Notice form, Facility Site Plat and Sample Information Table, Soil/Groundwater sample analysis results, USC sample results, and Chain of Custody form within 90 days of UST Closure to:  
 State of Utah Dept. of Environmental Quality  
 Division of Environmental Response and Remediation UST Section  
 150 North 1950 West 2nd Floor  
 Salt Lake City, Utah 84116



STATE OF UTAH  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

Michael O. Leavitt  
Governor  
Dianne R. Nielson, Ph.D.  
Executive Director  
Kent P. Gray  
Director

168 North 1950 West  
P.O. Box 144840  
Salt Lake City, Utah 84114-4840  
(801) 536-4100 Voice  
(801) 359-8853 Fax  
(801) 536-4414 T.D.D.

FILE COPY

ERRL-0744-95

June 14, 1995

Scenic Airlines  
475 South Donlee Drive  
St. George, Utah 84770

Re: Release Site EHJU, former St. George Air Service, 952 S. Airport Road, St. George, Utah  
Facility Identification No. 6000248

To Whom It May Concern:

The Utah Division of Environmental Response and Remediation (DERR) has reviewed the case file for the facility identified above. Your state project manager, **Victor Scherer**, has recommended that no further action be taken at this time, based upon review of the information contained in the file. The DERR staff has not made an independent investigation of the site but has relied on the information supplied by you or your consultant.

The information indicates that the petroleum release at the facility no longer poses a threat to human health or the environment at this time. In the future, if other evidence indicates a spread of contamination from the Facility which may cause a threat to human health or the environment, the DERR may require further action.

Sincerely,

Kent P. Gray, Executive Secretary (UST)  
Utah Solid and Hazardous Waste Control Board

KPG/VES/jf

cc: Gary L. Edwards, M.S., C.H.E.S., Director, Southwest Utah Public Health Department





# State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

Norman H. Bangerter  
Governor  
Kenneth L. Alkema  
Executive Director  
Kent P. Gray  
Director

1950 West North Temple  
Salt Lake City, Utah  
(801) 536-4100  
(801) 536-4099 Fax

Reply to: State of Utah  
Division of Environmental Response and Remediation  
Department of Environmental Quality  
Salt Lake City, Utah 84114-4840

## MEMORANDUM

TO: Kent P. Gray, Executive Secretary (UST)  
Utah Solid and Hazardous Waste Control Board

THROUGH: Bryan Whitaker, UST Branch Manager  
Scott Manzano, LUST Section Manager

FROM: Ben Anderson, LUST Project Manager *BA*

DATE: October 19, 1992

SUBJECT: Recommendation for Close-out of LUST Release Site EHJU, St. George Air Service, 952 South Airport Road, St. George, Utah Facility Identification No. 6000654

A tank overflow release of approximately 78 gallons of Jet A fuel occurred at the above referenced Facility on February 22, 1992. A Phase I R&R Schedule and a Corrective Action Plan Worksheet for Aeration of Petroleum Contaminated Soil was sent to John Wall of St. George Air Service on March 16, 1992. After no response, a warning letter was issued on June 29, 1992.

A report was submitted to the DERR by Mr. Wall on July 9, 1992. The report indicated that 75 gallons of fuel was spilled and 45 gallons of free product was recovered. Approximately 8 cubic yards of soil was turned in place and aerated without placing it on an impermeable membrane or obtaining DERR approval. Mr. Wall sent some site maps showing the location of the aerated soils.

A soil sample was collected on April 25, 1992 by Ron Sappington of Fuel Tec. The sample was submitted to the laboratory with 14 days of collection, however, it was not analyzed until May 18, 1992. No chain of custody was included with the sample analytical results. The sample exhibited below the detection limits of 0.031 mg/kg BTEXN and 14.0 mg/kg TPH. After contacting Mr. Sappington I questioned him regarding the representativeness of the sample. He stated that the ground surface sloped gently away from the area of the fill pipe and that he took the sample approximately 4.5 feet down-slope from the release area and sampled the soil on the surface (approximately 5 inches deep). He said that the sample appeared to him to be in the area that was most likely to be impacted by the release. He said that only very minimal contamination was evident.

Mr. Wall indicated that the local health department and Utah Division of Air Quality were not notified of the incident. He indicated that in his opinion this release was not anything serious because most of it was cleaned up immediately.

Current State UST Rules require additional samples to be collected if additional petroleum contamination is found or suspected. It is the responsibility of the owner to ensure that these samples are collected. In reviewing this report we only assume that the sample was taken in the area where contamination was most prevalent.

It is my recommendation that this LUST Release Site be closed and that a close-out letter be issued to the owner. As with all closed LUST sites, further action may be required if another release occurs or if future evidence indicates a spread of contamination from the facility which constitutes a threat to human health or the environment.

*Reper - closed site 6-6-95*

*V.S.*

**CORRECTIVE ACTION PLAN FOR AERATION OF PETROLEUM-CONTAMINATED SOIL FOR LUST SITE** \_\_\_\_\_

**ATTENTION OWNER OR OPERATOR:** In the event the aeration as part of corrective action, the following items are writing to the DERR and approved by the Executive Secretary Waste Control Board prior to implementation of any aeration a preliminary aeration plan approved by the DERR as part of update your site map to "as-built" and resubmit, and please

*Ben*  
*This is for release site EHJU.*  
*Facility ID is 6000654*

<u>Notification of Regulatory Agencies*</u>	<u>Date Contact</u>
Division of Air Quality (801-536-4000)	<u>02-24-92</u>
Local City/County Health Department	<u>02-24-92</u>
Local City/County Fire Department	<u>N/A</u>

*Small*

\* Written acceptance by at least the Local City/County attached prior to obtaining the DERR's approval for any soil aeration.

- A detailed "as-proposed" site map of the anticipated aeration site must be included.
- Indicate the approximate volume of soil that has been overexcavated which is to be aerated at the desired location (indicate cubic feet or cubic yards). 200 cubic ft.
- Is the aeration location on-site (at tank location) or off-site? On Site
- If aeration site is different than tank location (eg, off-site), specify location; N/A
- Indicate the type of product stored in UST system (R or UL Gas, other)\*\*. Jet A

\*\* It may not be possible to aerate soils contaminated with diesel or fuel oil!

- Approximate depth to groundwater from surface (if known). 300 feet
- Approximate prevailing wind direction 240 Degrees

-Proof of public notification made to potentially affected public.

Public Participation--For each confirmed release in which the Executive Secretary requires a Corrective Action Plan the public must be notified by a means designed to reach that segment of the public who may be directly affected by the release into the atmosphere of volatiles created by aerating the soil. If there is sufficient public interest, the owner/operator must provide an information repository in a community building which is easily accessible to community members interested in reviewing the Corrective Action Plan for the contaminated soil.

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

*Called Keith Dalton 7-14-92.*  
*He said that Ron Sappington took the samples and that he will get with him next monday to get chair of custody, depth, & location of sample.*

UL - 9 1992 np  
 F ENVIRONMENTAL  
 SE AND REMEDIATION





**APPENDIX D**  
**UTAH LANDFILL RECORDS**

Landfill Name	Name	Title	Company or Facility Name	Street or P.O. Box	City	St	Zip	Area Code	Phone No.	Permit Number	Permit Date	Op Type	Ann. Tons
SF Phosphates	Chris McCourt	Environmental/Mine Engineer	SF Phosphates Limited Company	9401 North Highway 191	Vernal	UT	84078	435	781-3348	9908	pending	IIIb	535
Shenandoah Energy/Red Wash	Robert T. Zeiler	E&S Compliance	Shenandoah Energy Inc.	11002 East 17500 South	Vernal	UT	84078-	435	781-4302	9906	11/15/1999	IIIb	0
Utah Co./Lapoint	Shawn Labrum	Landfill Supervisor	Utah Co.	152 E. 100 N.	Vernal	UT	84078	435	789-6018		pending	IVb	34
<b>Utah County (Utah County Health Dept.)</b>													
South Utah Valley Solid Waste Dist./Bayview	Richard Henry	District Manager	South Utah Valley Solid Waste Dist.	P.O. Box 507	Springville	UT	84663-	801	489-3027	9420	4/15/1999	I	130,461
Geneva Steel	Russell L. Christensen	Chief Engineer - Environment	Geneva Steel Company	PO Box 2500, Bin 10	Vineyard	UT	84603	801	227-9275	0005	Pending	IIIb	91,220
Pacific States Pipe	Russell Black	Environmental Manager	Pacific States Cast Iron Pipe Company	2550 South Industrial Parkway	Provo	UT	84603	801	373-6910 ext. 212		pending	IIIb	33,700
Niels Fugal Sons Company	Daniel B. Fugal	CEO	Niels Fugal Sons Company	P.O. Box 650	Pleasant Grove	UT	84062	801	785-3152	9614	9/20/2000	IVb	250
Lehi	Ron Anderson	Streets Superintendent	Lehi City Corporation	153 North 100 East	Lehi	UT	84043	801	768-7102 ext. 4	9816	2/1/1999	IVb	2,159
Payson City	Kent Fowden	Superintendent	Payson City Corporation	439 W. Utah Ave.	Payson	UT	84651	801	465-5230	9419	12/15/1994	IVb	38,602
Santaquin City	Dennis Barnes	Public Works Dir.	Santaquin City	45 W. 100 S.	Santaquin	UT	84655	801	754-3211	9603	8/1/1996	IVb	20
Peck Rock & Products	Cole Peck	Owner	Peck Rock & Products	1512 North 1300 East	Lehi	UT	84043	801	768-8111	9901	4/1/1999	IVb	5,122
Payson City	Kent Fowden	Superintendent	Payson City Corporation	439 W. Utah Ave.	Payson	UT	84651	801	465-5230	9703	pending	V	15,176
Cedar Valley	Donna Crawford	Office Manager	Bear Construction Services, Inc.	96 South 1200 West	Linfon	UT	84042	801	785-0624	0012	11/1/2000	Vc/d	84
<b>Wasatch County (Wasatch City/County Health Dept.)</b>													
No Landfills													
<b>Washington County (Southwest Public Health Dept.)</b>													
Washington Co. Special Service Dist. #1	Susie Holt	District Manager	Washington Co.	325 North Landfill Road	Washington	UT	84780	435	673-2813	9410R1	12/15/1999	I	121,391
<b>Wayne County (Central Utah Dist. Health Dept.)</b>													
Wayne Co./Long Hollow	Ted Taylor	Supervisor	Wayne Co.	18 S. Main P.O. Box 189	Loa	UT	84747	435	836-2682	9416	12/19/1994	II	3,738
Wayne Co./Hanksville	Ted Taylor	Supervisor	Wayne Co.	18 S. Main P.O. Box 189	Loa	UT	84747	435	836-2682	9801	6/1/1998	IVb	438
<b>Weber County (Weber Morgan Dist. Health Dept.)</b>													
Pappas Brick Fill	Emogene Berrett	Owner	Pappas Brick	1860 Lincoln Av.	Ogden	UT	84401	801	621-1613	9802	9/1/1998	IVb	7,596
Weber Properties L.C.	Wil van der Sluppen	President	Weber Properties L.L.C.	P.O. Box 12847	Ogden	UT	84412	801	731-7882	9810	12/1/1998	IVb	4,320
Triple H Construction	Ed Hargertson	Chairman	Triple H Construction	PO Box 1502	Ogden	UT	84402	801	394-4100	9605	2/1/1997	IVb	14,640
Huntsville	Rod Layton	Councilman	Huntsville Town	P.O. Box 267	Huntsville	UT	84317	801	745-3031	9424	6/1/1996	IVb	104
Plain City	Lynn Moyes	Mayor	Plain City Corp.	4160 W. 2200 N.	Plain City	UT	84404	801	731-4166	9402	3/23/1994	IVb	1,953
Moulding & Sons Sand & Gravel	Randy Moulding	President	Moulding & Sons Sand & Gravel	910 West 21st Street	Ogden	UT	84401	801	399-9994	9812	3/1/1999	Vc/d	100,000

UTAH LANDFILL INVENTORY

Landfill Name	Name	Title	Company or Facility Name	Contact Person	Street or PO Box	City	St	Zip	Area Code	Phone No.	Permit Number	Permit Date	Op Type	Ann. Tons <sup>1</sup>
<p><b>Definitions of Landfill Operation Types:</b></p> <p><b>Class I Landfill:</b> a municipal landfill or a commercial landfill solely under contract with a local government taking municipal waste generated within the boundaries of the local government and receiving, on a yearly average, over 20 tons of solid waste per day.</p> <p><b>Class II Landfill:</b> a municipal landfill or a commercial landfill solely under contract with a local government taking municipal waste generated within the boundaries of the local government and receiving, on a yearly average, 20 tons, or less, of solid waste per day.</p> <p><b>Class III Landfill:</b> a non-commercial landfill that is to receive only industrial solid waste, but excluding farms and ranches. Class III landfills are regulated by Rule R315-304. Class IIIa may receive conditionally exempt small quantity generator waste Class IIIb may not</p> <p><b>Class IV Landfill:</b> a non-commercial landfill that receives only waste regulated under R315-305 (C/D, yard waste etc.) Class IVa may receive conditionally exempt small quantity generator waste Class IVb may not.</p> <p><b>Class V Landfill:</b> a commercial landfill which receives any non-hazardous solid waste for disposal, some Class V landfills are restricted by permit to Class II or IV waste streams. Class V landfill does not include a landfill that is solely under contract with a local government within the state to dispose of solid waste generated within the boundaries of local government. Class Vc/d landfills are restricted to construction and demolition waste</p>														
<p><b>Number of Facilities by Class<sup>3</sup></b></p> <p>Total Class I Facilities 19</p> <p>Total Class II Facilities 17</p> <p>Total Class III Facilities 22</p> <p>Total Class IV Facilities 37</p> <p>Total Class V Facilities 9</p> <p>Total Facilities 104</p>														

<sup>2</sup> Based on annual reports submitted March 2002

Landfill Name	Name	Title	Company or Facility Name	Contact Person	Street or PO Box	City	St	Zip	Area Code	Phone No.	Permit Number	Permit Date	Op Type	Ann. Tons	
	• Local Health Departments, in addition to the Division of Solid & Hazardous Waste, have participated in the oversight of landfills. As a result, Local Health Departments may have records in addition to the Division of Solid & Hazardous Waste. Following is the address for each of the Local Health Departments.														
Bear River Health Department	655 East 1300 North Logan, Utah 84341	Joel Heyd, Environmental Health Director	Phone: 435/792-6574 FAX 435/792-6600	Southeastern Utah District Health Department	28 South 1st East, POB 800 Price, Utah 84501	Claron Bjork, Environmental Health Director	Phone: 435/637-3671 FAX 435/637-1933	TriCounty Health Department	147 East Main Street Vernal, Utah 84078	Joseph Shaffer, Health Director	Phone: 435/781-5475 FAX 435/781-5372				
Central Utah Public Health Department	70 Westview Drive Richfield, Utah 84701	Bruce Costa, Environmental Health Director	Phone: 435/896-5451 FAX 435/896-4353	Southwest Utah Public Health Department	88 East Fiddlers Canyon Road, Suite H Cedar City, Utah 84720	William Dawson, Environmental Health Director	Phone: 435/586-2437 FAX 435/586-4851	Utah County Health Department	589 South State Street Provo, Utah 84606	Terry Beebe, Environmental Health Director	Phone: 801/370-8771 FAX 801/370-4521				
Davis County Health Department	PO Box 618 Farmington Ut 84025-0618	Delane McGarvey, Environmental Health Director	Phone: 801/451-3296 FAX 801/451-3122	Summit County Public Health Department	85 North 50 East, POB 128 Coalville, Utah 84017	Robert Swenson, Environmental Health Director	Phone: 435/336-3227 FAX 435/336-3286	Wasatch City/County Health Department	55 South 500 East Heber City, Utah 84032-1918	Phil Wright, Health Director	Phone: 435/654-2700 FAX 435/654-2705				
Salt Lake Valley Health Department	788 East Woodoak Lane Murry Utah 84123	Royal DeLegge, Environmental Health Director	Phone: 801/313-6602 FAX 801/313-6608	Tooele County Health Department	151 North Main Street Tooele, Utah 84074	Jeff Coombs, Environmental Health Director	Phone: 435/843-2345 FAX 435/843-2304	Weber/Morgan Health Department	2570 Grant Avenue Ogden, Utah 84401	Joseph Decaria, Environmental Health Director	Phone: 801/399-8172 FAX 801/399-8323				

# UTAH CLOSED LANDFILLS

Landfill Name	Township & Range					Landfill Owner									
	Twp.	Reg.	Sec.	Q/R	Q Sec.	Email Address	Owner Contact	Title	Owner Name	Street or PO Box	City	St	Zip	Area Code	
Oquirrh Wildlife Refuge	8 S	20 E	15		SE				US Fish and Wildlife Serv	HC 69 box 232	Randlett	UT	84063	435	
Government Park	1 S	20 E	11												
Iron Springs	1 S	21 E	28												
Idell	1 N	1 E	26	NE	SE										
Jensen	5 S	23 E	27	NW	SW										
LaPoint (old)	1 S	2 E	9	SE	NW										
Paradise Park	3 N	1 E	18												
Sheep Ridge Shale															
Whiterocks Canyon	3 N	1 E	31												
<b>Utah County (Utah County Health Dept.)</b>															
Camp Williams	4 S	1 W	26	SE	SW				Ut Co SWSSD	2000 W 200 S	London		84042	801	
Ut. Co. SWSSD	5 S	2 E	31	SW	SE				Goshute						
Gooden	10 S	1 E	19	SE	SW										
Aurora	8 S	1 E	24	NW	NW										
Benjamin															
Cedar Fort	10 S	1 W	4	SW	SE										
Elbera															
Fairfield															
Lehi	10 S	3 E	31												
Minnie Springs	7 S	3 E	18	SW	NW										
Provo City	6 S	3 E	27												
Rock Canyon	9 S	1 E	34	SW	SE										
Santaquin	8 S	3 E	R&E 17						Craig Wayman	P.O. Box 173	Lehi	UT	84043	801	
Spanish Fork	6 S	1 W	10	NE	NW				A & C Cox Construction	69 South 1400 West	Provo	UT	84601	801	
Wayman	7 S	2 E	14	NE	NW										
A & C Cox Construction															
<b>Wasatch County (Wasatch City/County Health Dept.)</b>															
Wasatch Co. Bulky Waste	4 S	5 E							Wasatch Co	PO Box 69	Heber		84032		
Camp Strawberry	4 S	11 W	5												
Campbell Hollow	4 S	3 E	6												
Clarks Camp	3 S	11 W	30												
Heber City (old)	4 S	4 E	13												
Lodgepole	6 S	6 E	10												
Phillips Camp	4 S	11 W	8												
Soldier Summit	10 S	7 E	24	SW	SE										
Strawberry Pasture	1 S	11 W	29												
Strawberry Valley	3 S	11 W	5												
Trout Creek	3 S	11 W	23												
Wallsberg	5 S	5 E	18	NE	NE										
<b>Washington County (Southwest Public Health Dept.)</b>															
Enterprise	37 S	17 W	13	NW	NW										
Enterprise (old)	37 S	16 W	19	SE	SE										
Gunlock 1	40 S	17 W	10	SE	NW										
Gunlock	40 S	17 W	15	SW	NW										

# UTAH CLOSED LANDFILLS

Landfill Name	Township & Range					Landfill Owner								
	Twp.	Rg.	Sec.	Q/Q	Q Sec.	Email Address	Owner Contact	Title	Owner Name	Street or PO Box	City	St	Zip	Area Code
Gunlock	40 S	17 W	29	SE	SE									
Hildale	41 S	13 W	26	SW	SW									
Hurricane	41 S	13 W	13	SW	SE									
LaVerkin														
Lead														
New Harmony	38 S	13 W	22	NW	SE									
Oak Grove	40 S	14 W	8											
Pine Valley	39 S	15 W	24											
Pintura	40 S	13 W	11	NE	NE									
Rockville	42 S	11 W	11	SW	NE									
St. George	42 S	15 W	17											
Santa Clara	42 S	16 W	17	NE	NW									
Shivwits Indian														
Springdale	41 S	10 W	29	SW	NE									
Springdale (old)	41 S	10 W	29	NE	SW									
Toquerville	41 S	13 W	2	SW	SW									
Veyo	39 S	1+6 W	31	NW	SE									
Virgin	41 S	12 W	23	NW	SE									
Washington City	42 S	15 W	13											
<b>Wayne County (Central Utah Dist. Health Dept.)</b>														
Birch Springs	25 S	4 E	27											
Bucknell	28 S	3 E	34	NW	SW									
Capitol Reef	29 S	6 E	22	SE	SE									
Elkhorn Ranger Sta.	27 S	4 E	15											
Fremont	27 S	3 E	10	NW	SE									
Fremont (old)	27 S	3 E	15	NE	NW									
Hamsville	28 S	11 E	21	NW	SE									
Heart Lake	27 S	4 E	3											
Hogan Pass	26 S	4 E	4											
Loa	28 S	2 E	2	NE	NW									
Loa (old)	28 S	2 E	14	NW	SE									
Lyman	28 S	3 E	3	SE	NW									
Meadow Gulch Ranger St	23 S	3 E	23											
Round Lake	27 S	4 E	2											
Sunglow Campground	28 S	4 E	30											
Teesdale	29 S	4 E	10	SW	SW									
Torrey	29 S	5 E	18	NW	SW									
Wayne Co./Hanksville	28 S	11 E	16	SW	SE									
<b>Weber County (Weber Morgan Dist. Health Dept.)</b>														
Huntsville	6 N	2 E	15	SE	SW				Huntsville	PO Box 267	Huntsville		84317	801
Ogden/Harrison Blvd	6 N	1 W	22	SW	WNW				Ogden					
Ogden/East Valley Dr.	6 N	1 W	22	SE	SE				Rose Ann King					
Ogden/500 West	6 N	2 W	31	SE	SE				Ogden					
North Ogden	7 N	1 W	28	SE	SW				No. Ogden					