

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
PPER NEW RIVER FLOODPLAIN MITIGATION PROJEC
PARCELS R-7222-100 THROUGH R-7222-111 AND
R-7222-112 AND R-7222-123
NEW RIVER,
MARICOPA COUNTY, ARIZONA**



Property of
Flood Control District of MC Library
Returned to
2801 West Durango
Phoenix, AZ 85009

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
UPPER NEW RIVER FLOODPLAIN MITIGATION PROJECT
PARCELS R-7222-100 THROUGH R-7222-111 AND
R-7222-112 AND R-7222-123
NEW RIVER,
MARICOPA COUNTY, ARIZONA**

Prepared For:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
2801 West Durango Street
Phoenix, Arizona 85009

Prepared By:

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4041 North Central Avenue, Suite 1050
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May 19, 1995
Growth File AZ009523





GROWTH

Growth Environmental Services, Inc.

Phoenix District
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May 19, 1995

Mr. William Knight
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009

SUBJECT: PHASE I ENVIRONMENTAL SITE ASSESSMENT, UPPER NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR PARCELS R-7222-100 THROUGH R-7222-111 AND R-7222-112 AND R-7222-123, NEW RIVER, MARICOPA COUNTY, ARIZONA, PURCHASE ORDER NO. PC95B03000126, ASSIGNMENT: 95-16

Dear Mr. Knight:

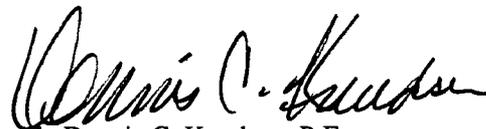
Growth Environmental Services, Inc. (Growth) is pleased to submit this Phase I Environmental Site Assessment for the subject Site. This report is provided in completion of our agreement dated March 29, 1995 and authorized in the FCDMC notice to proceed dated April 17, 1995.

If you have any questions concerning this document, please call either of us at (602) 248-8808. We appreciate the opportunity to complete this work for you.

Respectfully submitted,

GROWTH ENVIRONMENTAL SERVICES, INC.


Kim Chambers Bergsten
Environmental Scientist


Dennis C. Knudsen, P.E.
Manager, Client Services

Enclosure: Phase I ESA Report

cc: Growth File AZ009523

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LIST OF ACRONYMS SPECIFIC TO THE ASTM STANDARD

ASTM- American Society for Testing and Materials.

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 *et seq.*).

CERCLIS - Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA).

CFR- Code of Federal Regulations.

EPA - United States Environmental Protection Agency.

EPCRA - Emergency Planning and Community Right to Know Act (also known as SARA Title III), 42 USC § 11001 *et seq.*).

ERNS - Emergency Response Notification System.

ESA - Environmental Site Assessment (different than an *environmental audit*).

FOIA - U.S. Freedom of Information Act (5 USC 552 *et seq.*).

FR - Federal Register.

LUST- Leaking Underground Storage Tank.

MSDS - Material Safety Data Sheet.

NCP - National Contingency Plan.

NPDES - National Pollution Discharge Elimination System.

NPL - National Priorities List.

PCBs - Polychlorinated biphenyls.

PRP - Potentially responsible party (pursuant to CERCLA 42 USC § 9607(a)).

RCRA- Resource Conservation and Recovery Act (as amended, 42 USC § 6901 *et. seq.*).

SARA - Superfund Amendments and Reauthorization Act of 1986 (amendment to CERCLA).

USC - United States Code.

USGS - United States Geological Survey.

UST - Underground Storage Tank.

1 SUMMARY

Growth has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-94 for a parcel of land containing approximately 42 acres located in the East Half of the Northeast Quarter of Section 22, Township 7 North, Range 2 East in Maricopa County, Arizona. Any exceptions to or deletions from, this practice are described in Section 2.4 of this report.

Based on the results of this Phase I ESA, the Site appears to have been developed between 1971 and 1985. A review of aerial photographs indicates that the residences appear to have been located on the Site beginning in the early 1970s. This assessment revealed no evidence of recognized adverse environmental conditions in connection with the Site except for the following:

Septic Systems. The area of the Site is serviced by individual septic systems. It is Growth's understanding that the residential properties will be demolished as the properties are located within the floodplain of the New River. Septic tanks provide a continuous access to the sub-surface, and therefore represent an element of risk to environmental conditions of the property through the potential introduction of petroleum or hazardous substances through sinks, toilets, drains and other openings to the sub-surface. Growth recommends that the septic systems be closed and a program of soil sampling and analysis be conducted if it appears that petroleum or hazardous substances have been introduced into the systems.

Comprehensive Asbestos Survey. Growth recommends that a Comprehensive Asbestos Survey (CAS) be accomplished prior to the demolition of the residential structures. A comprehensive survey would conclusively address the extent and condition of the detected asbestos containing material (ACM) and other potential ACM. The results of the CAS would allow the formulation of specific asbestos abatement recommendations for all identified ACM.

Water Well Abandonment. Growth recommends that the Flood Control District of Maricopa County (FCDMC) abandon all water wells on the Site. At least ten wells are currently registered as being located on the Site. A small concrete pad and one-inch diameter pipe was observed on Parcel 109. The function of the pipe was unknown, although it may have been an unused domestic well. In addition, a corrugated metal pipe (CMP) approximately 24 inches in diameter was observed near the western edge of the parcel. This pipe was covered with a steel lid. Its function was unknown. Due to the anticipated use of the Site and its location in a floodplain, Growth recommends that the wells be permanently abandoned and the CMP removed.

Soil Staining. Three parcels contained areas of oily stained soil within the Site boundaries. An area of soil staining was observed on Parcel 103, south of a trailer that contained empty 55-gallon drums formerly containing diesel fuel. A 35-gallon metal trash-can was observed on Parcel 109 in the entrance drive. The can was approximately one-half full of oily stained soil. An area of oily stained soil was observed adjacent to the trash-can where it appeared that the staining extended several inches into the soil.

On Parcel 110, two areas of oily stained soil were observed. The first area is located on the west side of the entrance drive, where the dirt had been covered with a layer of straw. A second area was observed on the dirt floor of a storage shed adjacent to an automotive repair facility at the northeast corner of the parcel. The dirt floor was heavily stained.

Grave Marker. A headstone was observed on Parcel 100. Further investigation into whether this marker is a memorial or a grave should be determined. If the Site has a potential for flooding, FCDMC may wish to explore having the grave marker moved to a higher location.

2 INTRODUCTION

2.1 PURPOSE

FCDMC has retained Growth to perform a Phase I ESA at the Upper New River Mitigation Project. The project included 14 residential parcels described as Parcels R-7222-100 through R-7222-111, R-7222-113, and R-7222-123 totaling approximately 42 acres in New River, Arizona, hereafter known as the "Site". This Phase I ESA is intended to serve as an appropriate, commercially prudent and reasonable inquiry regarding the potential for recognized environmental conditions in connection with the Site.

2.2 SPECIAL TERMS AND CONDITIONS

This Phase I ESA has been completed and the report prepared in accordance with the American Society for the Testing of Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Designation E-1527-94)*. The scope of Growth's services for this project is included as Appendix A.

2.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The Phase I ESA process is not intended to provide a guarantee regarding the presence or absence of petroleum products or hazardous substances on the Site. The findings and conclusions of this assessment are limited by the following factors:

1. The scope of work agreed to between Growth and FCDMC is not an exhaustive inquiry, but represents an appropriate, commercially prudent, and reasonable level of effort. In accordance with the ASTM Standard, this assessment serves to reduce, but not eliminate, the level of uncertainty regarding the potential for recognized environmental conditions on the Site.
2. The availability of data may be limited, particularly in regards to historical Site uses. Where such limitations are material to the conclusions of the assessment, they are identified in the report.
3. Growth cannot verify the accuracy of data obtained from government agencies, commercial sources, interview subjects, and other third-party sources.

This Phase I ESA represents conditions which existed at the time the work was performed, and should not be considered indicative of conditions which may exist at a substantially later date. The assessment has been completed in accordance with a reasonable understanding of the recognized environmental conditions and regulatory standards which existed at the time the work was performed.

2.4 LIMITING CONDITIONS AND METHODOLOGY USED

This Phase I ESA has been prepared specifically for FCDMC, for their use and reliance in the environmental assessment of the Site. Reliance on this report by any other party must be at that party's sole risk, unless such reliance has been authorized in writing by Growth and the FCDMC.

Because of the Site's relatively remote location, documentation of historical uses was limited. Growth obtained aerial photographs of the Site in 1959, at which time the Site was undeveloped. A 1920 General Land Office map was obtained from the Bureau of Land Management. No evidence of structures or development are recorded on the General Land Office survey map.

A chain-of-title report was not commissioned as a part of this Phase I ESA.

Growth sent out letters to property owners on April 18, 1995 indicating that Growth would be on Site during the week of April 24, 1995. Copies of the letter of advance notice are provided in Appendix E. Growth personnel visited the Site on April 27, 1995. Growth personnel walked transects over the entire parcel of land, unless access was prohibited or due to the New River or extremely dense vegetation. A perimeter walk was conducted on Parcel 102 as access to the parcel was declined by the owner.

3 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The Site is located in New River, Arizona and consists of 14 residential lots totalling approximately 42 acres of land. The Site is more generally described as a portion of the East Half of the Northeast Quarter of Section 22, Township 7 North, Range 2 East of the Gila and Salt River Baseline and Meridian in Maricopa County, Arizona. The approximate Site boundaries are shown in Figure 1. The Site is described as FCD Parcels R-7222-100 through R-7222-111, R-7222-113, and R-7222-123. The Site is legally described as Maricopa County Assessor Parcels 202-06-031, 032, 045, 051D, 050, 051C, 021, 020, 021, 024A, 024B, 015E, 016B, and 044B. For ease of reference, the parcels will be described throughout the report as Parcels 100 through 111, 113, and 123.

3.2 SITE AND VICINITY CHARACTERISTICS

Topography and Drainage

The Site is located east of the north bound lanes of Interstate 17 and north of the community of New River. The Site varies in topography with an elevation change of approximately 100 feet across the width of the area. The New River floodplain and channel occupy approximately the western half of the Site. Stormwater falling onto the Site appears to drain to the river channel where it flows in a south to southwesterly direction.

Regional Geology and Hydrogeology

The Site lies at the southern edge of the Central Highlands north of the Salt River Valley. While the Salt River Valley is a broad alluvial basin in the Basin and Range physiographic province, the Central Highlands is a transition zone between the desert regions to the south and the Colorado Plateau to the north. Like the Basin and Range province, the Central Highlands are characterized by a series of northwest trending fault-bounded mountain ranges. However, the mountains are generally higher and more closely spaced and the basins between the mountains are shallower and less sediment filled than those in the Basin and Range province (Chronic, 1983).

In the general area of the Site, groundwater has been encountered between approximately 10 feet below ground surface (bgs) and 73 feet bgs and depends, to a great deal on the topography (Reeter and Remick, 1986). The main water-bearing unit consists of unconsolidated to semiconsolidated silt, sand, and gravel. The New River area is a region of diverse hydrologic conditions and the water-bearing units may not be hydrologically connected in the area. Well yields in the New River area are dependent on the thickness of the main water-bearing unit (Littin, 1977). However, not enough data is available to infer a general direction of groundwater flow in the area (Littin, 1977).

3.3 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

Growth visited the Site on April 27, 1995. The Site consists of 14 residential parcels, numbers R7222-100 through R-7222-111, R-7222-113, and R-7222-123. Twelve of the parcels are developed with single family residences. A brief description of each of the parcels follows. For ease of discussion, the numbers for each parcel have been abbreviated to the last three numbers. Figures 2 through 14 describe each of the parcels. Selected photographs taken during the site visit are provided in Appendix J.

Parcel 100 - 49801 North 37th Avenue. This parcel consists of a single residential property. An empty 55-gallon drum labelled uninhibited 1,1,1-trichloroethane was observed on the west side of the entrance gate to the property. No evidence of leakage or staining was observed around the empty drum. A water well and water storage tank were observed on the north side of the property. A grave marker was observed northwest of the residence. The headstone was labelled "Fern W. Hartley, Beloved Wife and Mother, 1906-1970."

A steel lid covering a corrugated metal pipe (CMS) was observed along the western edge of the property. The pipe was approximately 24 inches in diameter and extended below the ground surface. Growth attempted to remove the steel lid to determine the depth and function of the CMS, however they were unsuccessful. A small concrete pad was observed directly south of the CMS. A horse corral was observed along the southern edge of the parcel. East of the corral was the remains of a wooden foundation. A discarded air compressor and a pile of scrap wood, pipe, and discarded household material was observed by Growth.

Parcel 101 - 39820 North 36th Avenue. A single family residence was located near the northwest corner of this triangular-shaped parcel. Access to the residence was from 37th Avenue. A well house was observed south of the residence. An empty 55-gallon drum was observed near the northwest corner of the parcel. In addition, several burn barrels were observed near a storage shed northwest of the house. Near the northeast corner of the parcel, Growth observed two small mobile homes. A 55-gallon drum labeled chocolate syrup was located on the north side of the mobile homes as well as an unlabeled 55-gallon drum. Two additional un-labeled empty 55-gallon drums were observed adjacent to a burn drum northwest of the mobile homes. A horse corral and grain silo were located north of the mobile homes at the northeast corner of the parcel.

Parcel 102 - 49816 North 37th Avenue. A single residential home was located on this parcel. A storage shed was observed near the northeast corner of the parcel. Growth personnel were not able to access this parcel and viewed the property from adjacent parcels.

Parcel 103 - 49812 North 36 Avenue. A three-story single-family residence was located on this parcel. A well and pump house was observed near the northeastern corner. A small storage trailer observed northeast of the residence contained four empty 55-gallon steel drums. These drums formerly contained diesel fuel according to the owner of the property, Mr. Jasper Combs. A small oily soil stain was observed on the south end of the trailer. The staining appeared to be the result of minor leakage from the drums. A small natural drainage was observed near the northwest corner of the parcel.

Parcels 104 and 105. These two parcels primarily were undeveloped native land and no street addresses were available. A ramshackle wooden building was observed on Parcel 105. Asphalt shingles were observed around the building as well as discarded furniture. The structure was not inhabited. Miscellaneous debris was observed in the vicinity of the structure that included portions of an old car body, a bathtub, and a empty steel tank with no bottom. South of the structure was a rock corral and a wooden pen. A dry tributary channel of the New River crossed these parcels along the western boundary. Remnants of a barbed wire fence was observed along the channel. Two areas of discarded metal scrap, wood and barbed wire fencing were observed on the west side of the dry channel. The northeastern portion of Parcel 104 consisted of an almost unpenetrable area of native riparian vegetation.

Parcel 106 - 52010 North 36th Avenue. A barbed wire fence effectively cut this parcel in half along the eastern portion of the former channel of the New River. The western portion of the parcel contained the New River channel and native vegetation. A mobile home was located near the northeast corner of the parcel. A downed windmill was observed east of the mobile home. Growth observed a washing machine on the northeast side of the mobile home. A discharge pipe from the washing machine appeared to drain gray water to a low-lying area north of the parcel. The yard was fenced west and south of the mobile home. A barn, equipment storage area, and a well were observed in a fenced corral south and west of the mobile home. Several Brahma bulls were

observed in the corral. Two storage lockers were observed on the east side of the fence along with a cement mixer, new construction materials and a storage trailer. Several discarded tires were observed around the parcel.

Parcel 107 - 50420 North 36th Avenue. The two braided channels of the river converge near the northwest corner of this parcel. A new planting of water cane was observed along the eastern bank of the dry channel and several water hoses were observed near the plants. The eastern portion of this parcel was developed with a single family residence, small corral and a chicken coop. A marshy inlet was observed along the southern boundary, west of the corral. Three empty 55-gallon drums were observed southwest of the residence in an area where stacks of cut wood, hay bales and landscaping materials were stored. A domestic water well was observed northwest of the residence.

Parcel 108 - 52018 North 36th Avenue. This parcel was developed with a single family residence and an unfinished pagoda-shaped building intended as living quarters for the owner's son. A discarded battery and anti-freeze container were observed near a parking area to the east of the pagoda building. No staining was observed around the automotive parts. Gray water appeared to be discharged to the property from black ABS pipes observed on the west of the residence and the south side of the pagoda building. No discolored sediment or stressed vegetation was observed in the vicinity of the pipes.

A large dog kennel and run was observed near the southeast corner of the parcel. Three pens or corrals were located on the parcel; a horse corral at the northwest portion of the parcel; a horse corral along the south side of the driveway; and a small empty pen on the northern property line. Two wells were located on the parcel. One of the wells was equipped with an electric pump and motor and the second well was powered by a working windmill. According to Mr. Murphy, the owner of the property, a septic system was located east of a hay storage building on the east side of the residence.

Parcel 109 - 50422 North 36th Avenue. A single family residence and detached garage structure was on located near the western portion of this parcel. Two smaller fenced areas with storage sheds were observed near the northeast corner of the parcel. Seven empty drums that appeared to be used for burning trash were observed on the west side of the garage and north of a small concrete slab near the southwest corner of the parcel. A 55-gallon drum was observed lying on its side near the northern boundary. No labeling was observed on the drum and it appeared to have approximately two inches of dirt in the bottom of the drum. Several areas of metal scrap were observed near the northeast corner of the property as well as an area of landscaping debris. Growth observed an area of oily soil staining on the dirt drive into the property. A 35-gallon trash-can appeared to be approximately half full of oily stained soil and the soil stain appeared to extend into the soil for several inches.

Parcel 110 - 50440 North 36th Avenue. This approximate 7.5 acre parcel extends beyond the northbound lane of Interstate 17 at the extreme northwest corner of the parcel. The western portion of the parcel contains native vegetation and the New River channel. A barbed wire fence was located along the eastern edge of the New River bank. A horse corral was located near the center portion of the parcel. Access to the residence was from a dirt road north of the parcel. Four structures make up a auto repair type facility at the northeast corner. Several storage sheds and a dumpster also were located around this facility. Growth observed a heavily oil stained dirt floor in a storage shed adjacent to the repair shop. An area of oily stained soil also was observed on the west side of the entrance drive. The area had been covered with a layer of straw. Two storage sheds, a travel trailer and cars were observed along the western area of the yard. Two mobile homes were observed near the southern boundary of the property as was a dog house and chicken coop. A well was observed west of the mobile homes and near the storage sheds near the western fence line. A propane tank was observed east of a small garden area between the two mobile homes.

Parcel 111 - 3547 Photo View Road. Access to Parcel 111 was from a dirt road north of the parcel. North 36th Avenue forms the eastern property boundary. The majority of the parcel was native vegetation. A single family

residence was located on the northwest portion of the property. The rear yard was fenced and a well and pump house was observed on the south side of the fenced area.

Parcel 113 - 3525 Photo View Road. Access to Parcel 113 was from North 36th Avenue. Photo View Road effectively formed the northern property boundary. A single family residence was observed near the southern portion of the parcel. South of the residence was a fenced corral. Five pigeon coops were located along the western fence line and a sixth coop was located along the eastern boundary. A dirt drive crossed the property and provided access to the neighboring parcel to the east. A car battery and an area of household debris was observed north of the drive along the western fence line. Two 55-gallon drums were observed directly north of the debris. An area of metal scrap, household trash and two 55-gallon drums also were observed along the northern edge of the property. All four 55-gallon drums appeared to have been used to burn household trash.

Parcel 123 - 49507 North 36th Avenue. This parcel was irregularly shaped. The western edge of the parcel was located at the bottom of a slope. The lower portion of the parcel was used as a horse corral. A single family residence was located at the top of the slope. North of the corral was a dirt drive that provided access to the residence. Several bales of hay, and two 55-gallon blue plastic drums were observed north of the corral. The drums appeared to contain food for the horses.

3.4 INFORMATION REPORTED BY USER REGARDING ENVIRONMENTAL LIENS OR SPECIALIZED KNOWLEDGE OR EXPERIENCE

No information was reported by users who responded to an environmental questionnaire regarding environmental liens for the Site.

3.5 CURRENT USES OF THE PROPERTY

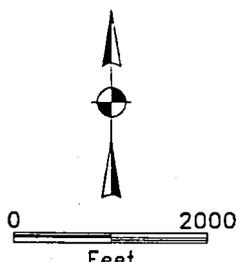
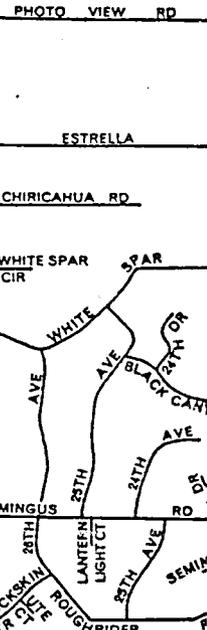
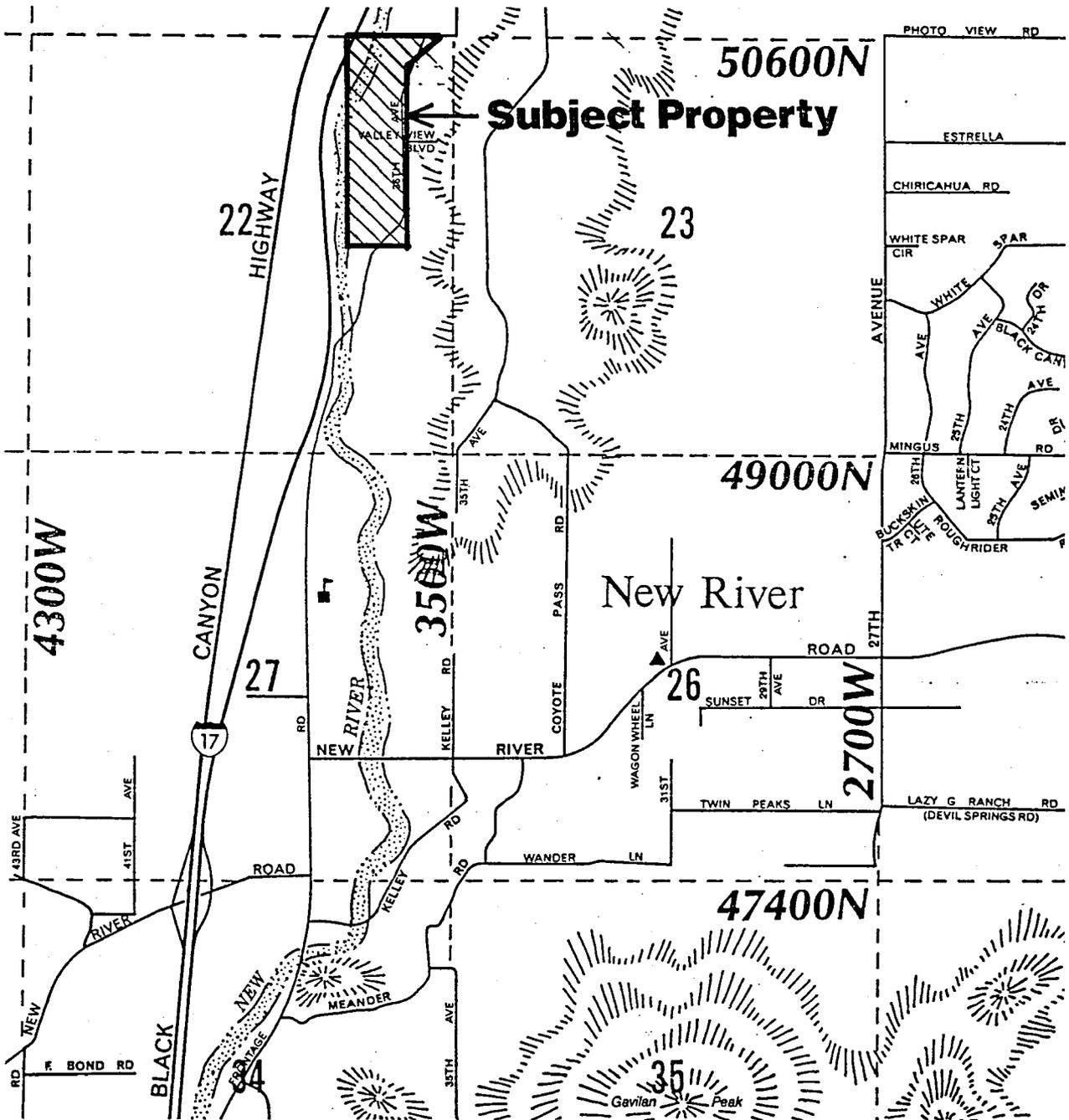
The Site is currently developed with rural single family residences, a small amount of penned livestock, or native desert and riparian land.

3.6 PAST USES OF THE PROPERTY

Aerial photographs confirmed that portions of the Site have been utilized as rural residential property between 1975 and 1993. City directories indicate that North 36th Street was first listed in 1971. No development was visible in the 1959 aerial photograph and the Site appears to have been native desert and riparian land. However, a rock livestock corral is visible in the earliest available aerial photograph dated 1959.

3.7 CURRENT AND PAST USES OF ADJOINING PROPERTIES

Properties adjacent to the Site generally consist of similar rural residential homes with stock privileges. Aerial photographs depict the area as native desert land in the 1959 photograph. Interstate 17 (State Route 69) was a two lane road in 1959.



DESCRIPTION	SITE VICINITY		FIGURE	PROJECT NUMBER
	ENVIRONMENTAL SITE ASSESSMENT TOTAL OF 14 PARCELS NEW RIVER, MARICOPA COUNTY		FIGURE 1	AR390-1961
PROJECT LOCATION	PROJECT MANAGER	FILE NAME	DRAWN BY	
ENVIRONMENTAL SITE ASSESSMENT TOTAL OF 14 PARCELS NEW RIVER, MARICOPA COUNTY	K. BERGSTEN	FDCMC\1661-01.DWG	DRAWN BY	
	DRAWING DATE	DRAWN BY		
	5/5/95	K. ANDREWS		

Empty 55-Gal. Drum
Un-Inhibited
1,1,1-Trichlorethane

Dirt Road

Dirt Road

Scrap Wood, Pipe,
Discarded Household
Material

Discarded
Air Compressor

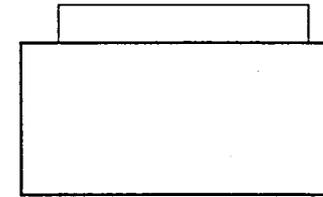
Wood
Foundation

Water Tank

Well

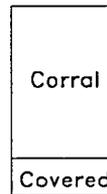
Air/Water
Tank

PVC Pipe



Trash
Containers

Storage
Shed



Grave
Head
Stone

Steel Manhole
Culvert Lid

Concrete
Pad

Cast Iron
Cylinder

LEGEND

⊗ Pole-Mounted Transformer



NOT TO SCALE



Growth

Growth Environmental Services, Inc.

DESCRIPTION

SITE DIAGRAM
PARCEL R-7222-100

PROJECT LOCATION

ENVIRONMENTAL SITE ASSESSMENT
49801 NORTH 37TH AVENUE
NEW RIVER, MARICOPA COUNTY

FIGURE

FIGURE 2

PROJECT NUMBER

AR390-1961

PROJECT MANAGER

K. BERGSTEN

FILE NAME

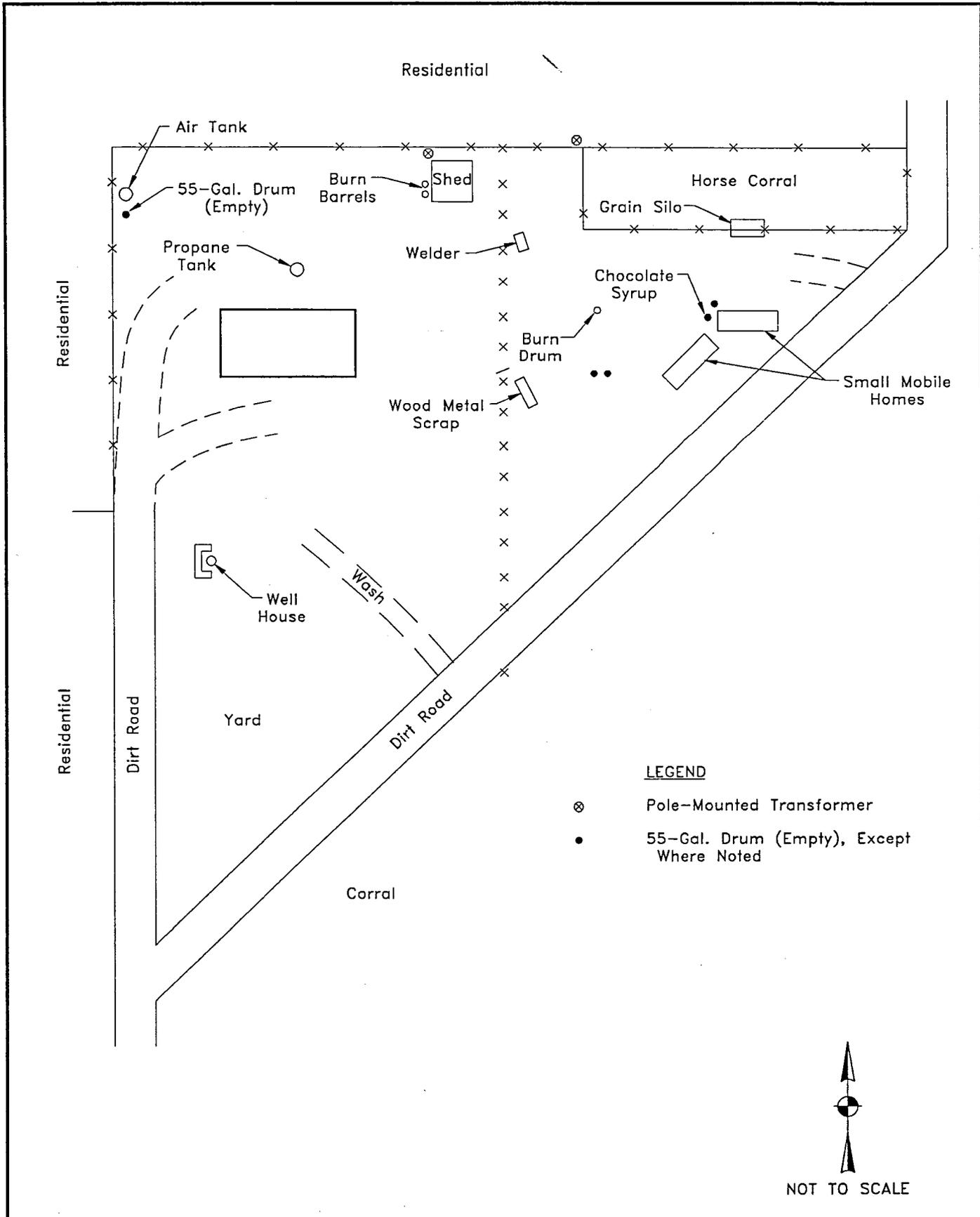
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DRAWING DATE

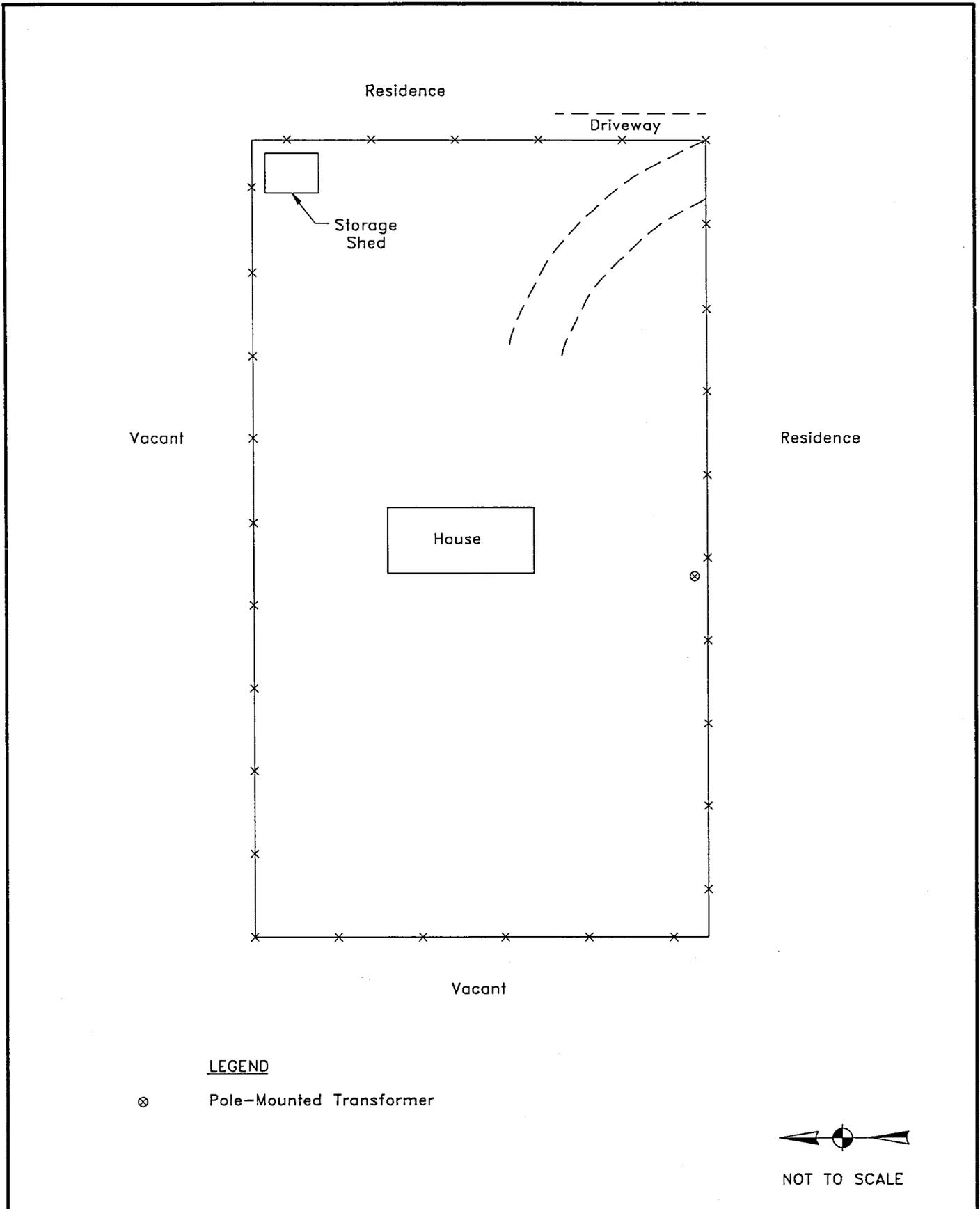
5/5/95

DRAWN BY

K. ANDREWS

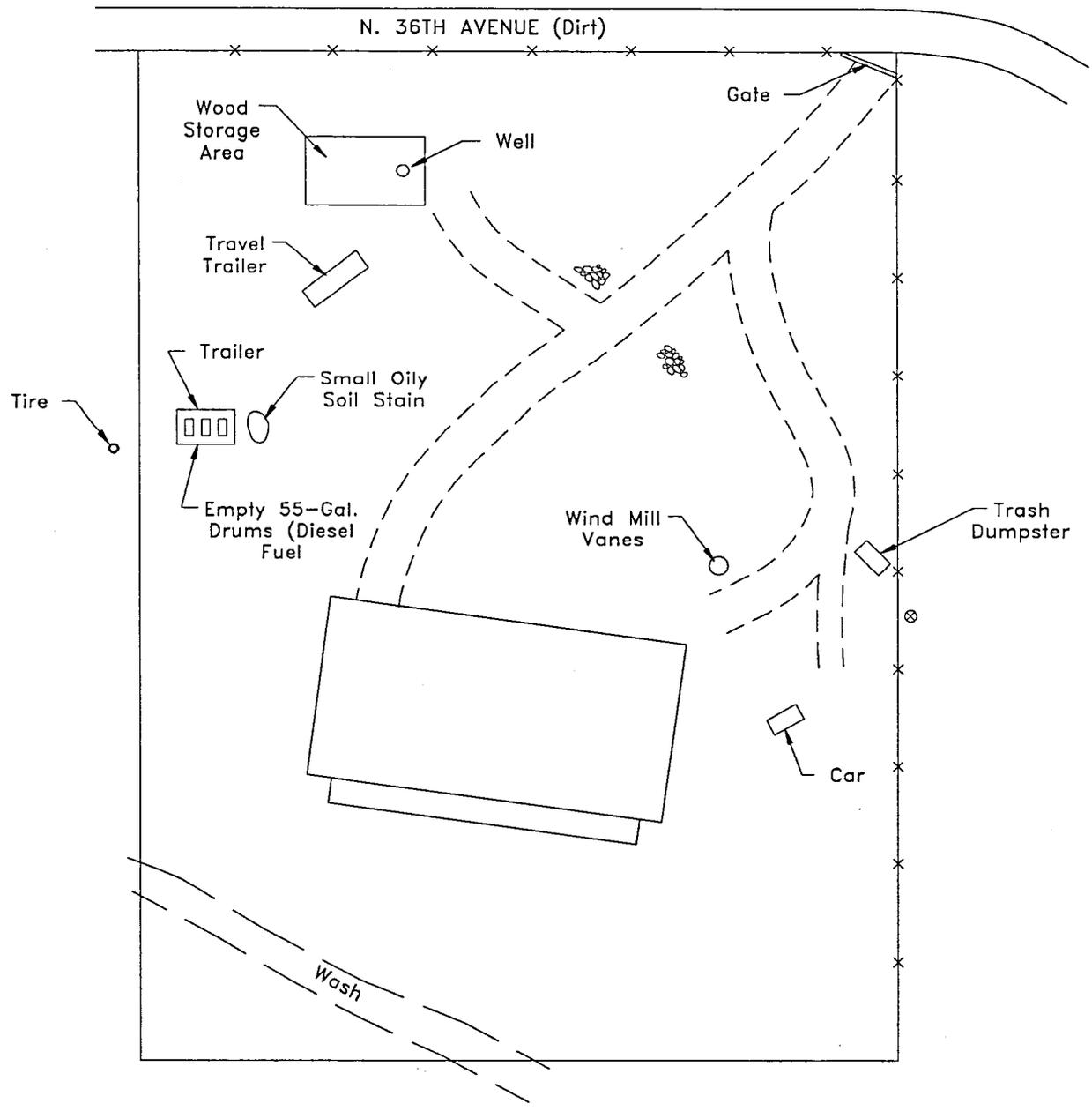


 Growth Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-101	FIGURE FIGURE 3	PROJECT NUMBER AR390-1961	
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 49820 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-03.DWG	
		DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS	



Growth
Growth Environmental Services, Inc.

DESCRIPTION SITE DIAGRAM PARCEL R-7222-102	FIGURE	PROJECT NUMBER
	FIGURE 4	AR390-1961
	PROJECT LOCATION	PROJECT MANAGER
ENVIRONMENTAL SITE ASSESSMENT	K. BERGSTEN	FCDMC\1661-04.DWG
49816 NORTH 37TH AVENUE	DRAWING DATE	DRAWN BY
NEW RIVER, MARICOPA COUNTY	5/5/95	K. ANDREWS



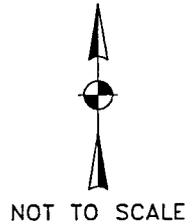
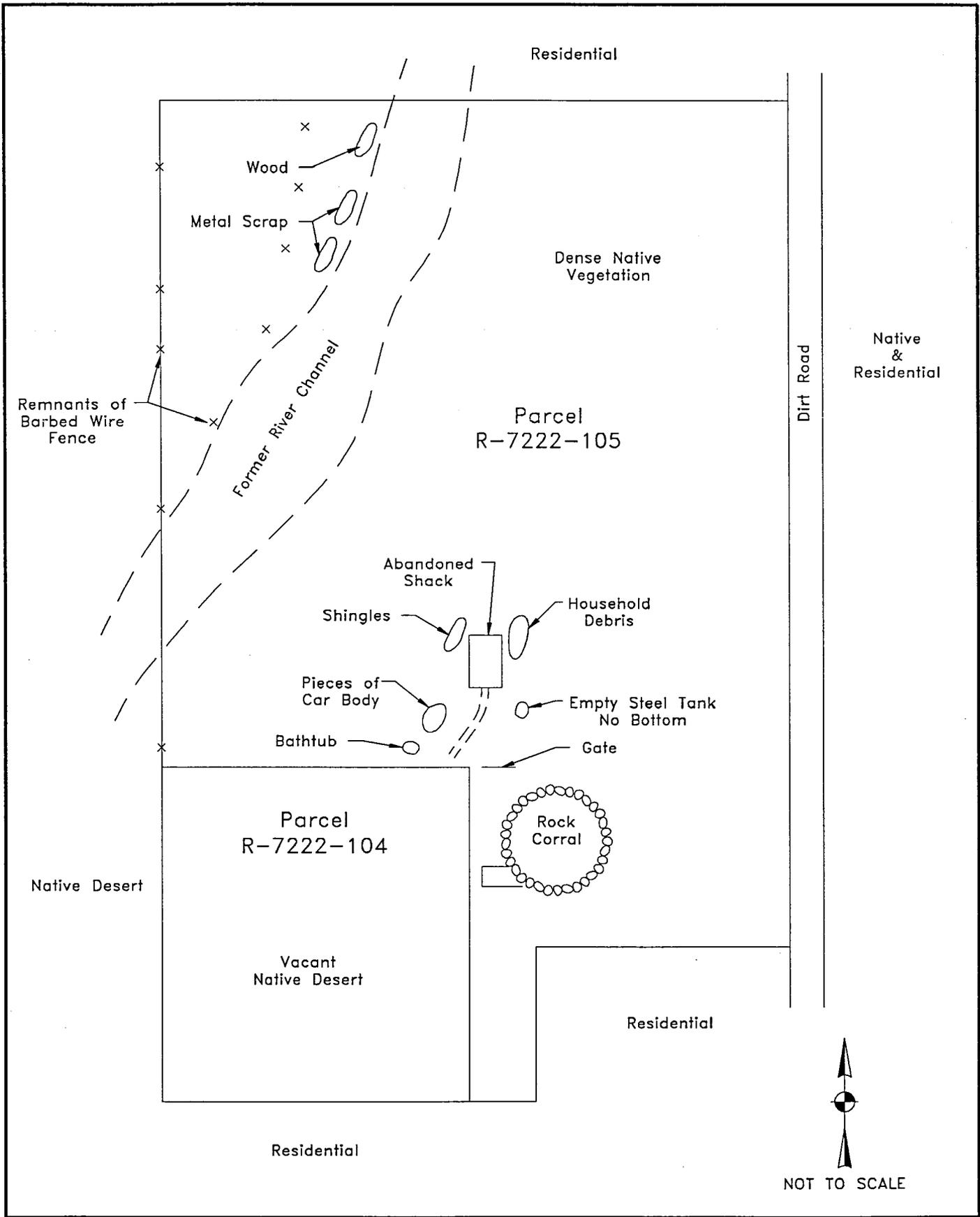
LEGEND

- ⊗ Pole-Mounted Transformer
- ⊙ Rock Cairns

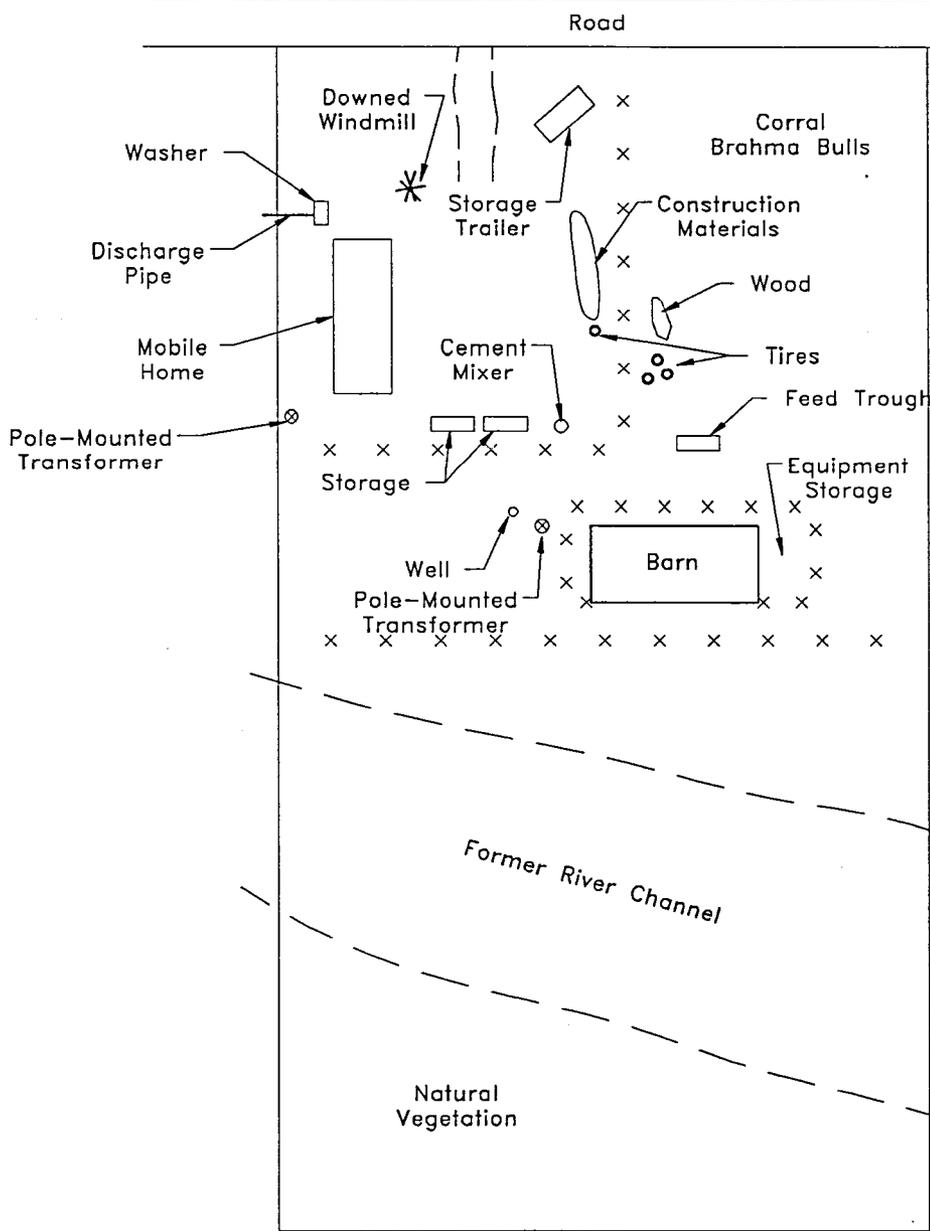


NOT TO SCALE

 Growth Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-103	FIGURE FIGURE 5	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 49812 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-05.DWG
	DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS	

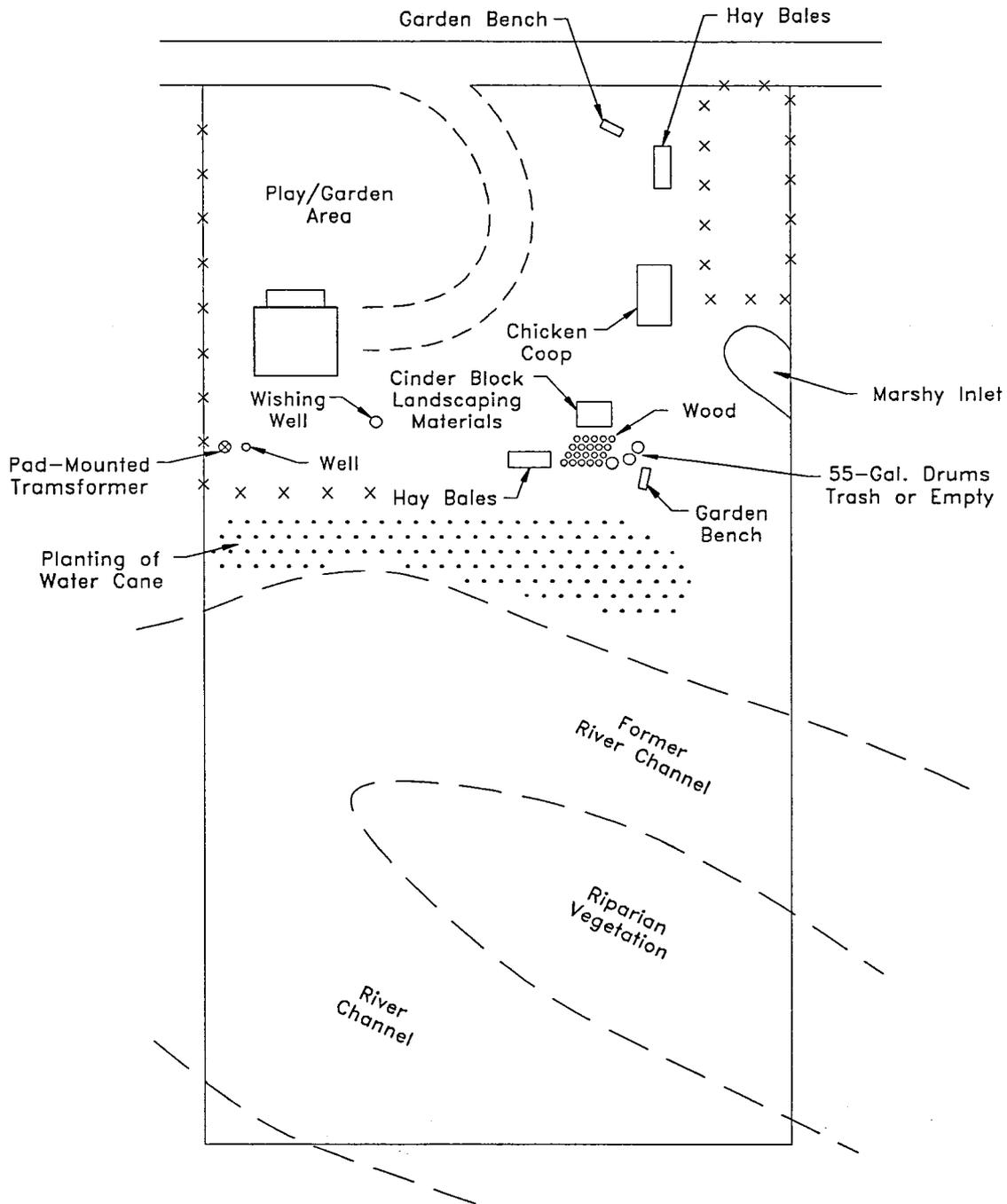


 Growth Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCELS R-7222-104/105	FIGURE FIGURE 6	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-06.DWG
		DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS



NOT TO SCALE

 Growth Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-106	FIGURE FIGURE 7	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 52010 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-07.DWG
	DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS	



NOT TO SCALE



GROWTH
Growth Environmental Services, Inc.

DESCRIPTION
**SITE DIAGRAM
PARCEL R-7222-107**

PROJECT LOCATION
ENVIRONMENTAL SITE ASSESSMENT
50420 NORTH 36TH AVENUE
NEW RIVER, MARICOPA COUNTY

FIGURE
FIGURE 8

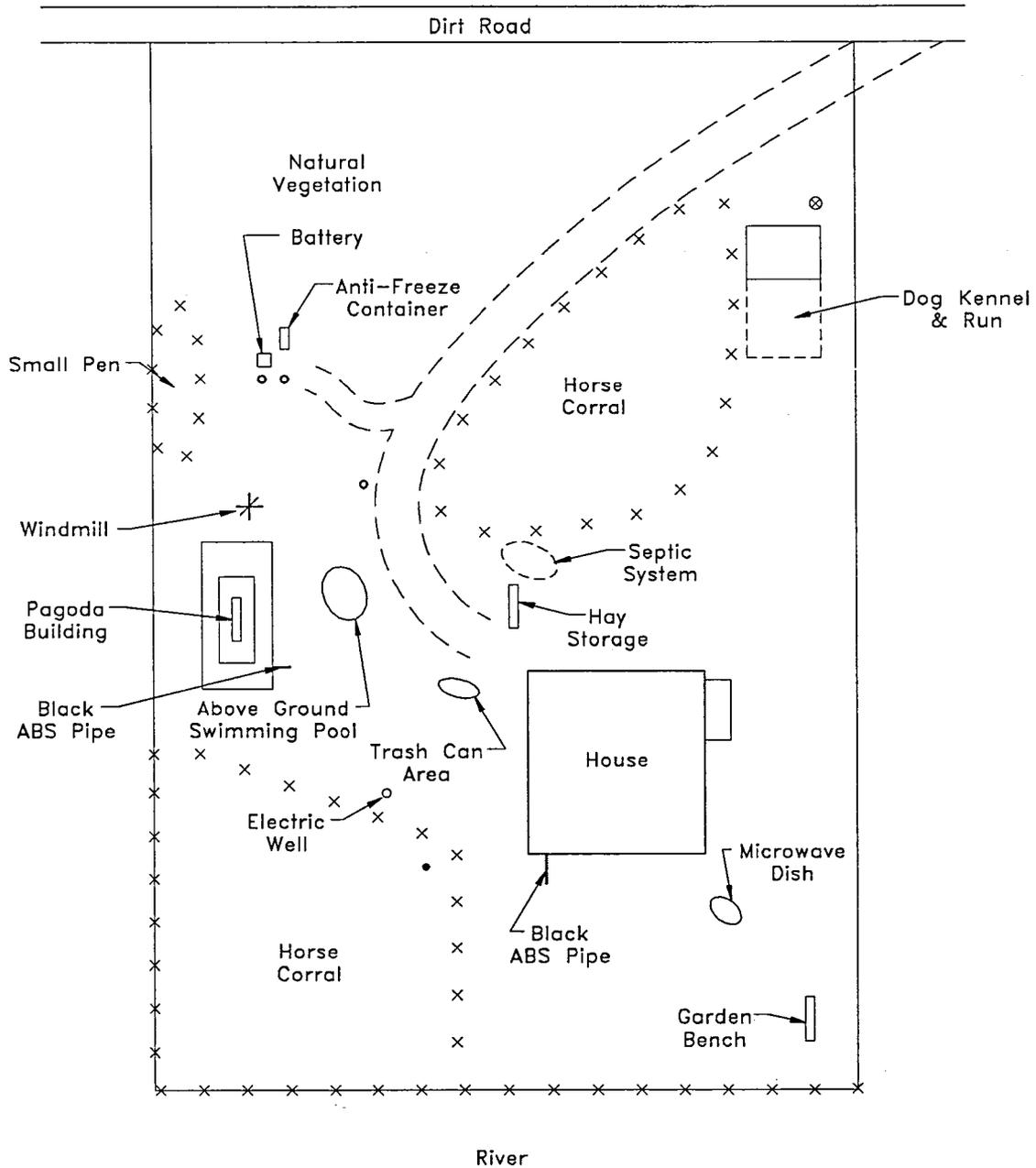
PROJECT MANAGER
K. BERGSTEN

DRAWING DATE
5/5/95

PROJECT NUMBER
AR390-1961

FILE NAME
FCDMC\1661-08.DWG

DRAWN BY
K. ANDREWS



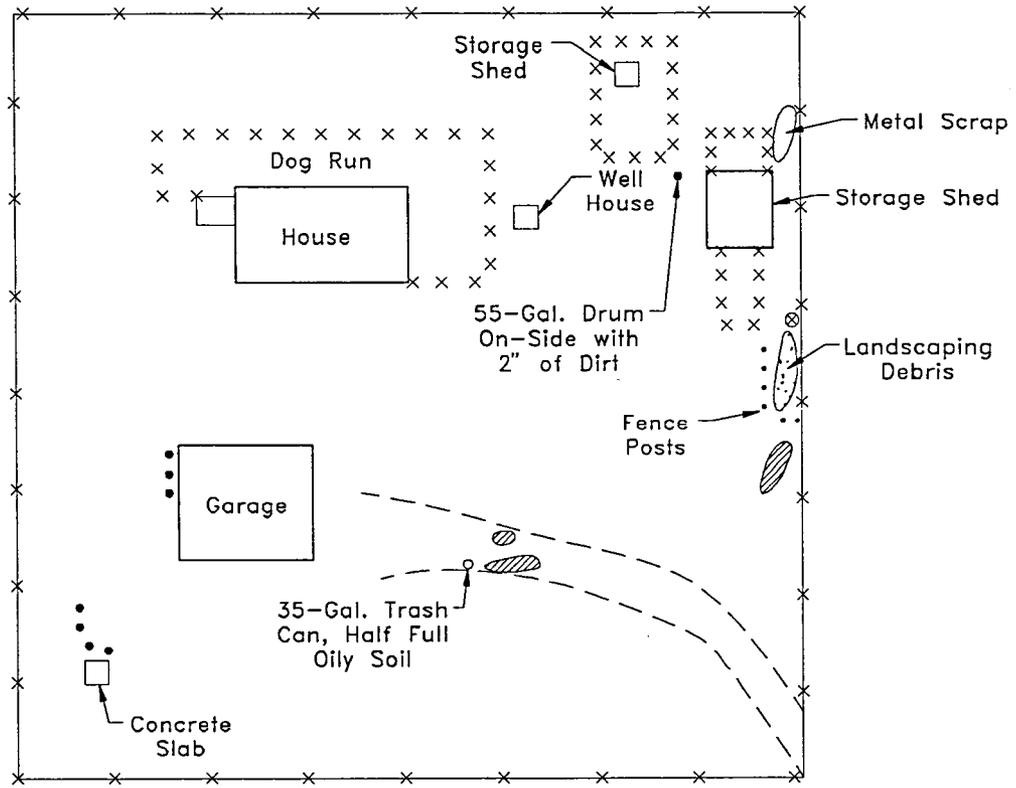
LEGEND

- Waste Tire
- 55-Gal. Drum
- ⊗ Pad-Mounted Transformer



NOT TO SCALE

 GROWTH Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-108	FIGURE FIGURE 9	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 52018 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-09.DWG
		DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS



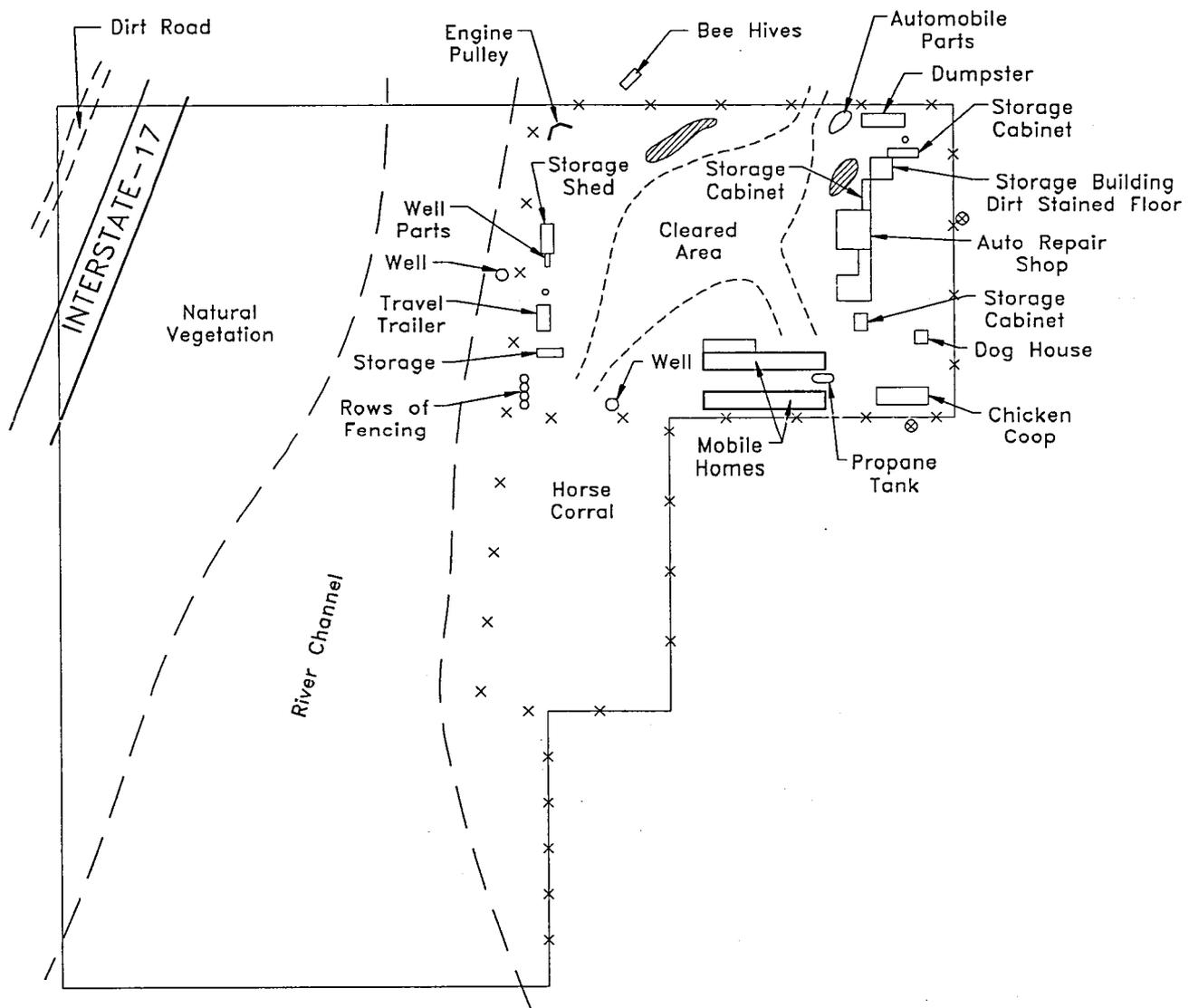
LEGEND

- 55-Gal. Drums, Used for Burning Trash
- ⊗ Oily Soil Stain
- ▨ Pole-Mounted Transformer



NOT TO SCALE

 Growth Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-109	FIGURE FIGURE 10	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 50422 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-10.DWG
		DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS



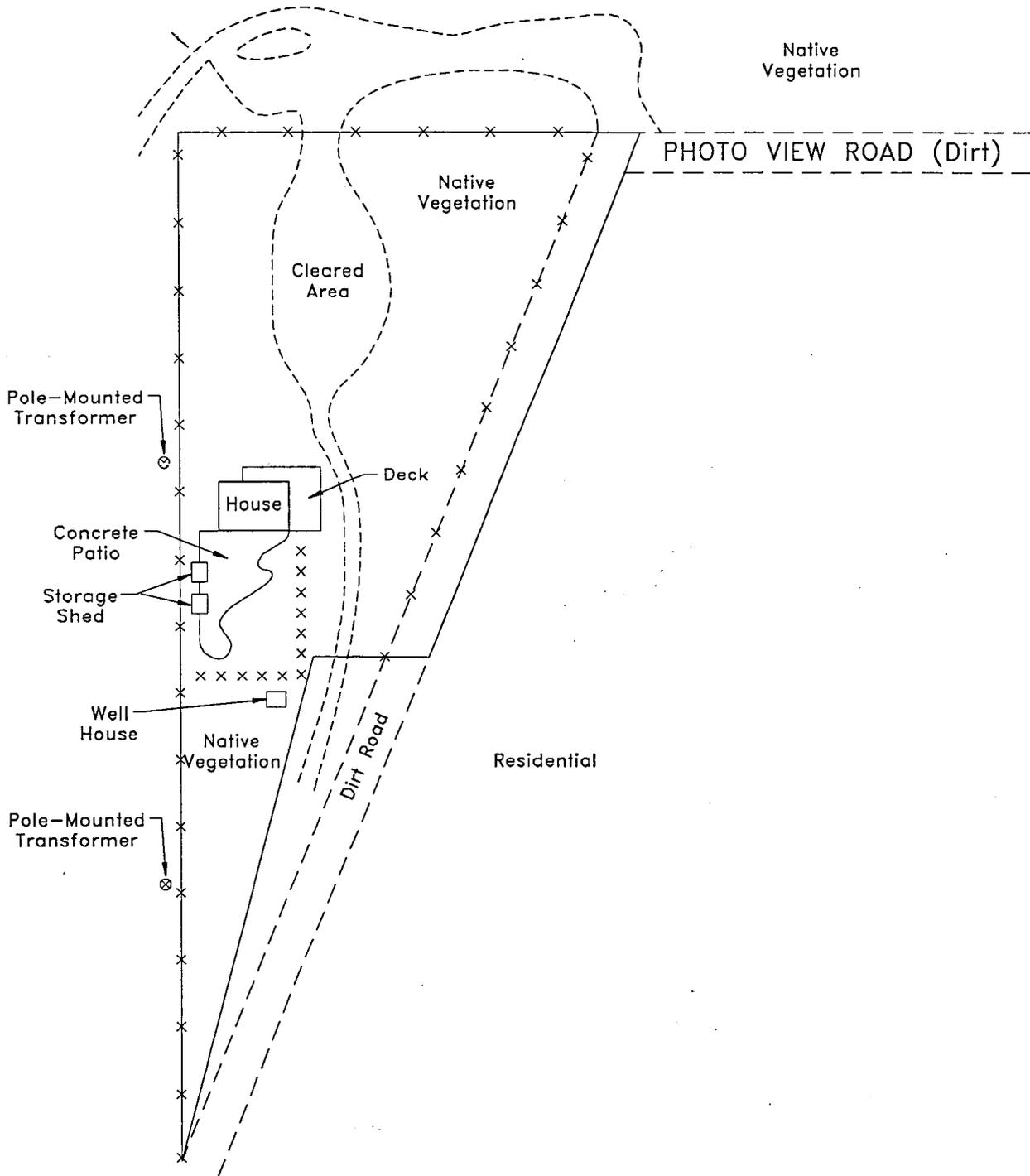
LEGEND

- Waste Tire
- ⊗ Pole-Mounted Transformer
- ▨ Stained Soil



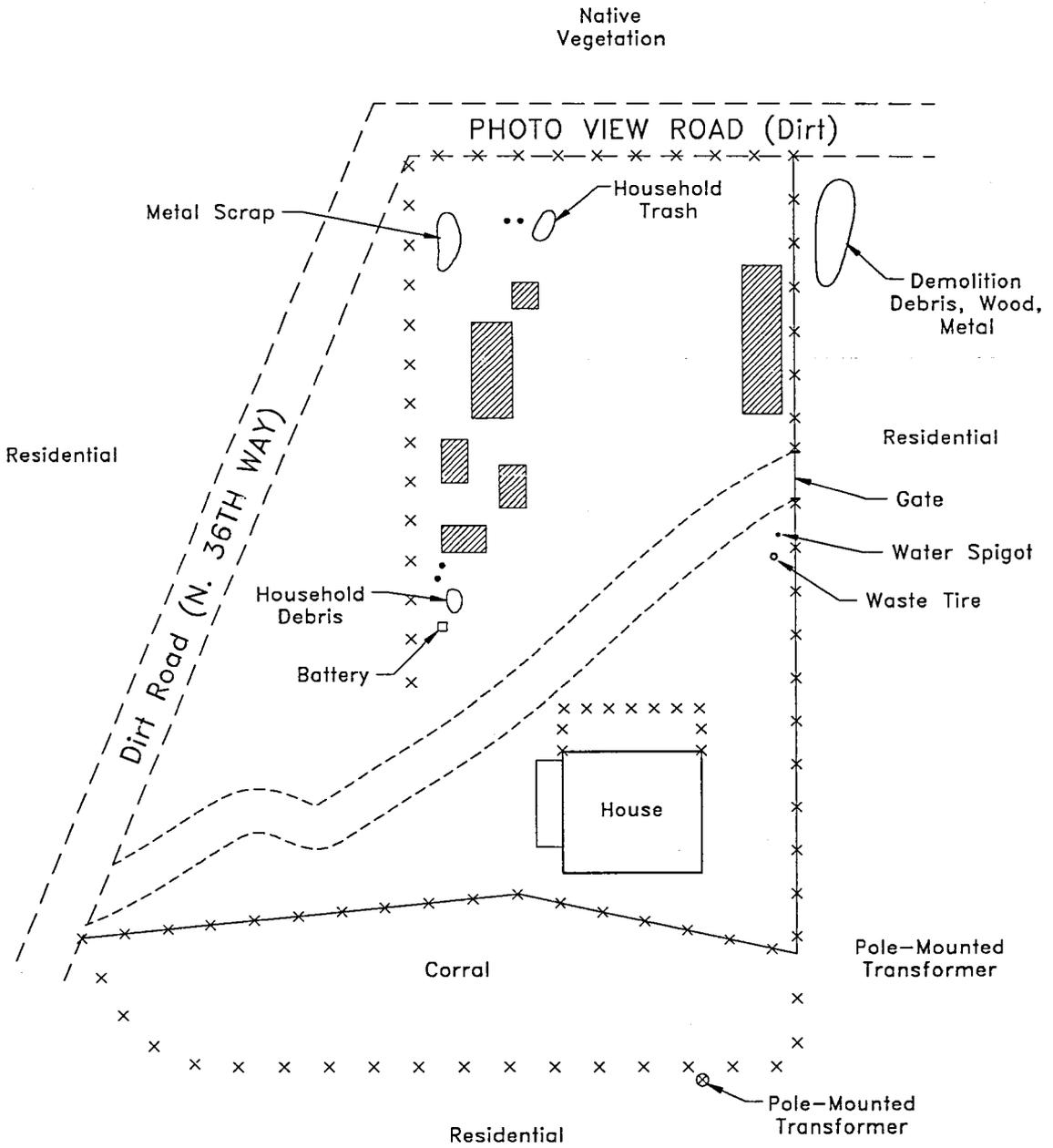
NOT TO SCALE

 Growth Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-110	FIGURE FIGURE 11	PROJECT NUMBER AR390-1961	
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 50440 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-11.DWG	
		DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS	



NOT TO SCALE

 GROWTH Growth Environmental Services, Inc.	DESCRIPTION SITE DIAGRAM PARCEL R-7222-111	FIGURE FIGURE 12	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 3547 PHOTO VIEW ROAD NEW RIVER, MARICOPA COUNTY	PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-12.DWG
		DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS



LEGEND

-  Pigeon Coops
-  55-Gal. Trash Drum

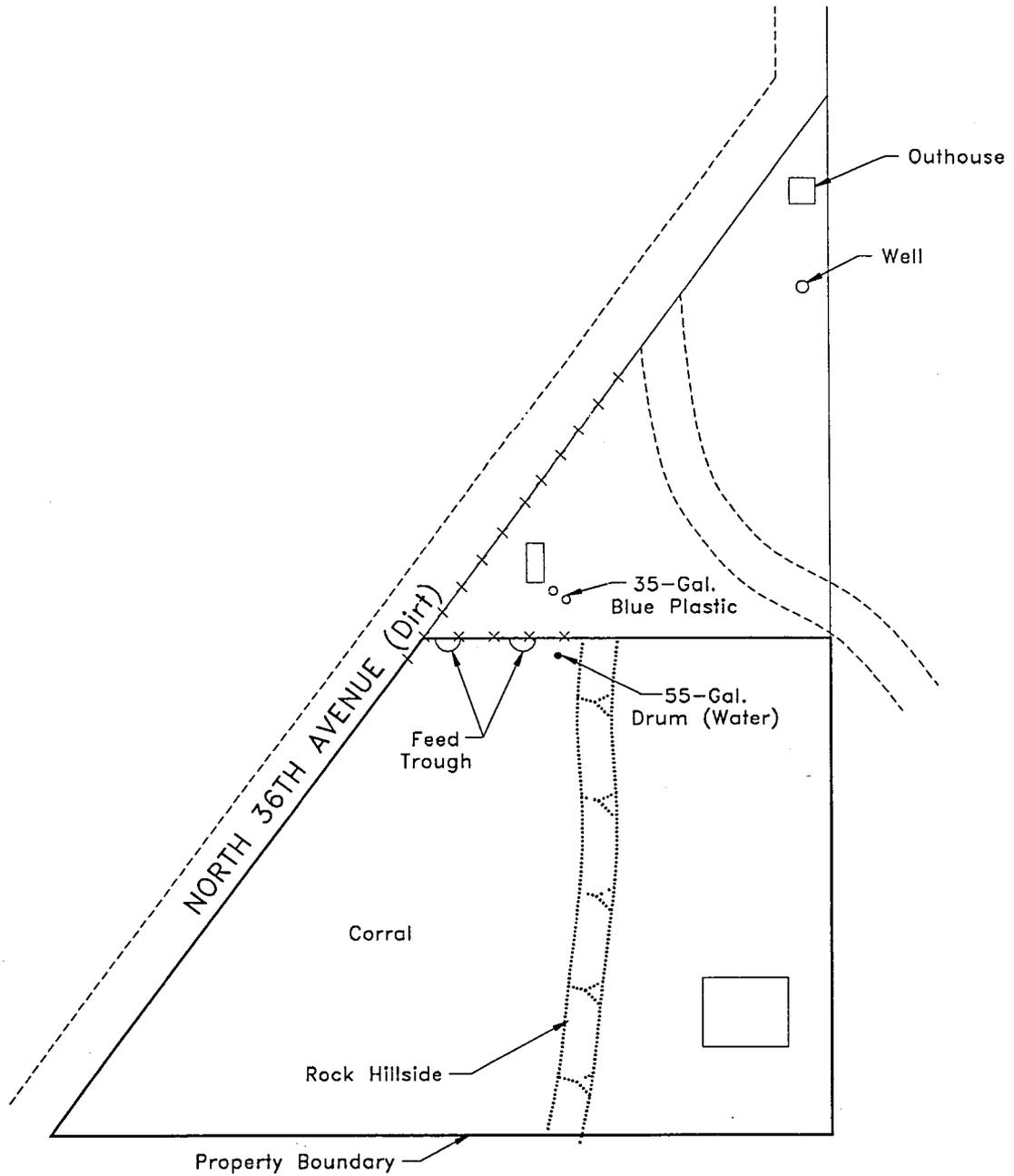


NOT TO SCALE



GROWTH
Growth Environmental Services, Inc.

DESCRIPTION SITE DIAGRAM PARCEL R-7222-113	FIGURE FIGURE 13	PROJECT NUMBER AR390-1961
	PROJECT LOCATION ENVIRONMENTAL SITE ASSESSMENT 3525 PHOTO VIEW ROAD NEW RIVER, MARICOPA COUNTY	
PROJECT MANAGER K. BERGSTEN	FILE NAME FCDMC\1661-13.DWG	
DRAWING DATE 5/5/95	DRAWN BY K. ANDREWS	



NOT TO SCALE



GROWTH

Growth Environmental Services, Inc.

DESCRIPTION	SITE DIAGRAM PARCEL R-7222-123		FIGURE	PROJECT NUMBER
	PROJECT LOCATION		FIGURE 14	AR390-1961
PROJECT LOCATION	ENVIRONMENTAL SITE ASSESSMENT 49507 NORTH 36TH AVENUE NEW RIVER, MARICOPA COUNTY		PROJECT MANAGER	FILE NAME
	DRAWING DATE		K. BERGSTEN	FCDMC\1661-14.DWG
		5/5/95	DRAWN BY	
			K. ANDREWS	

4 RECORDS REVIEW

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES, FEDERAL AND STATE

Growth conducted a regulatory records review for the Site and the surrounding area. The records review included the following standard environmental record sources:

List	Approximate Minimum Search Distance (miles)
Federal NPL Site List	1.0
Federal CERCLIS List	0.5
Federal RCRA TSD Facility List	1.0
Federal RCRA Generator List	Site and adjoining properties
Federal ERNS List	Site only
ADEQ WQARF (State Superfund) List	1.0
Arizona CERCLA Information and Data System (ACIDS) List	1.0
ADEQ Open Landfills List	0.5
ADEQ Solid Waste Facilities	0.5
ADEQ Registered UST List	Site and adjoining properties
ADEQ Reported Leaking UST List	0.5

Federal Superfund Sites - Review of the EPA NPL of "Superfund" sites in Arizona indicated that the Site is not located within a 1-mile minimum search distance of a federal Superfund site (March 20, 1995).

CERCLIS - The CERCLIS list is used to track activities or sites which have been reported to the EPA as candidates for investigation under the federal Superfund program. No CERCLIS sites are listed within a 0.5-mile minimum search distance of the Site (March 20, 1995).

RCRA Database - The RCRA database, dated November 29, 1994, includes facilities that are involved in the generation, transport, treatment, storage, or disposal of hazardous waste and have been assigned an EPA identification number. Inclusion of a facility on this list does not necessarily mean that the site is contaminated or causing contamination. Review of the RCRA database indicated no registered RCRA treatment, storage or disposal (TSD) facilities within a 1.0-mile minimum search distance, or RCRA generator facilities adjacent to the Site.

ERNS - The ERNS stores information on releases of oil and hazardous substances. Releases are recorded in ERNS when they are initially reported to the federal government by any party. A review of the ERNS database, dated January 2, 1995, indicated that the Site was not listed.

WQARF - Review of the ADEQ project list for the WQARF indicates that the Site is not located within a 1.0-mile minimum search distance of any WQARF sites or study areas (June 1, 1994).

Arizona CERCLA Information and Data System (ACIDS) - The ADEQ ACIDS lists sites which have been reported to or are being investigated by ADEQ as having possible contamination. No ACIDS site is located within a 1.0-mile minimum search distance of the Site (January 31, 1995).

Solid Waste Facilities - Review of Arizona Solid Waste Facility records indicates that no reported open or closed municipal solid waste landfills, private solid waste landfills, or rubbish landfills are located within a 0.5-mile minimum search distance of the Site (August 9, 1994).

USTs - According to the ADEQ list of registered USTs, no registered UST facility is located within a 0.5-mile minimum search distance of the Site (January 5, 1995).

LUSTs - Review of the ADEQ list of LUSTs indicates that no reported LUST incident has occurred within a 1.0-mile minimum search distance of the Site (January 5, 1995).

4.2 PHYSICAL SETTING SOURCES

Growth reviewed the USGS 7.5 minute topographic map for the New River, Arizona Quadrangle, dated 1964, to evaluate the physical setting of the Site. The 1964 map indicated that the Site was located in an undeveloped area of Maricopa County, Arizona. No specific man-made features were depicted on the map. Interstate 17 is depicted near the western boundary of the Site and crosses the extreme northwest corner of the Site. The channel of the New River flows south through the western portion of the Site.

4.3 HISTORICAL USE INFORMATION

Growth reviewed reasonably ascertainable standard historical sources in an attempt to develop a history of the previous uses or occupancies of the Site and surrounding area. The objective was to identify those uses or occupancies that are likely to have led to recognized environmental conditions in connection with the Site. Growth attempted to identify uses or occupancies of the Site dating from the present back to 1940. A reasonable search of standard historical sources revealed a 1920 land survey by the U. S. Surveyor General's Office dated May 14, 1920. No detail was depicted on this general land office map for the Site. Other documented information regarding historical uses of the Site was not available prior to 1959. These sources and findings are summarized in the sections to follow.

Historical Aerial Photographs - Growth reviewed aerial photographs of the Site and adjacent areas which were available from the Arizona Department of Transportation. This photo sequence begins in 1959. Growth's photo observations and interpretations are summarized below:

1959 The Site appears to be undeveloped native desert and riparian land. A rock corral was depicted on Parcel 105, as well as what appears to be an old road that crosses the Site from the northeast to where it dead ends at Highway 69 (now Interstate 17). Highway 69/Interstate 17 was a two lane highway west of the Site.

1975 A few structures were visible on the west side of North 36th Avenue near the north end of the Site. These structures appeared to be located on Parcels 108, 110, and 111. The east side of North 36th Avenue appeared relatively unchanged from the current development. A structure was visible on Parcel 105 northwest of the rock corral. In addition, a stock pen was visible west of the corral. A structure also was visible on Parcel 123.

1985 Parcels 101 and 102 remain undeveloped. A third river channel appeared to be braided into the New River. Currently, only two channels cross Parcel 105.

1993 The Site appeared as it did during the site visit. Two channels of the New River were visible through most of the Site.

City Directories - Growth personnel reviewed historical city directories for the Site. The earliest available listing for North 36th Avenue was 1971. The following table provides street addresses and occupants for residences on the Site. This area has a highway postal contract and all residential addresses may not be listed.

Street Address	Parcel Number	Tenant	Year Listed
52011 North 36th Avenue	R-7222-106	Charles R. Jordan	1971 - 1993
49812 North 36th Avenue	R-7222-103	Sylvia Ann Originis	1979 - 1986
50422 North 36th Avenue	R-7222-108	David Hays	1981 - 1982
49820 North 36th Avenue	R-7222-101	William C. Colburn Tony Otero No phone listing Patrick O'Brien	1981 - 1982 1984 - 1987 1988, 1991 1990
49507 North 36th Avenue	R-7222-123	George K. Williams	1990-1992

Sanborn Fire Insurance Maps - The Sanborn Fire Insurance Map series illustrates detailed historical development in some older areas of towns in Arizona from the years 1890 to 1968. Growth conducted a review of the Sanborn Maps to evaluate evidence of historical development on the Site. This review confirmed that the Site lies beyond the limits of the map series.

Interviews - Interviews can be valuable sources of information pertaining to the site history of the Site. Growth sent a Phase I Environmental Assessment Interview form to owners of the parcels. To date, five interview forms have been returned by property owners. A copy of the interview forms are provided in Appendix C. According to the interview forms, all parcels currently have private water wells and septic systems. No evidence of environmental problems were noted by property owners who responded to the questionnaire.

4.4 ADDITIONAL RECORD SOURCES

Registered Drywells - Arizona rules require owners to register all drywells on their property with ADEQ. The Water Permits Unit of ADEQ maintains a list of all drywells that have been registered with the State to date. According to ADEQ records, there are no registered drywells within a 0.5-mile radius of the Site (January 4, 1995).

SARA Title II Notifiers - The SARA requires facilities which use, handle or store significant quantities of hazardous substances to prepare plans for potential emergencies involving those substances. SARA also requires the facilities to notify the public concerning these plans and to register with the USEPA. No USEPA Toxic Release Inventory was provided for zip code 85027.

ADEQ Groundwater Quality Results - Growth reviewed the Groundwater Quality Results for 1991, 1992, 1993 and the first half of 1994. This review indicated that no wells have been sampled within 0.5 miles of the Site.

Registered Septic Tanks - Growth contacted the Maricopa County Department of Environmental Health (MCDEH) to obtain information pertaining to the possible presence of registered septic tanks on the Site. Four septic systems are recorded with the MCDEH; 49801 North 37th Avenue (Parcel 100), 49820 North 36th Avenue (Parcel 101), 49812 N. 36th Avenue (Parcel 103), and 3525 West Photo View Road (Parcel 113). Although no other records were provided by MCDEH, no wastewater treatment plant services the area of the Site and all residences are anticipated to have a septic system. A copy of the septic permits available from MCDEH are provided in Appendix G.

Illicit Dumping Sites - Growth contacted the Maricopa County Illegal Dumping Hotline, to obtain information regarding any records of illicit dumping on the Site. According to Mr. Marion Sams, no information was available on illicit dumping in the area of the Site (personal communication, May 5, 1995).

Arizona Department of Water Resources (ADWR) - According to the ADWR, there are 28 reported wells located within a 0.5-mile radius of the subject property. Ten wells are registered on the Site. In addition, two wells may be located on the Site although the exact location of these wells cannot be determined within a 10-acre area. Specific information concerning the wells is listed below.

Location	Owner	Registration Number	Depth (ft)	Diameter (in)	Well Use	Drill Date	Approximate Location Relative to Site
A(7-2)22	Daniel O'Neill	WR 634684	55	NL	ADJ	NL	adjacent to east (P-112)
A(7-2)22	G M Turley	WR 638590	55	NL	A	1978	unknown
A(7-2)22 A	R J McKeon	WR 634197	50	6	DJ	1984	site - Parcel 111
A(7-2)22 AAA	W E Lambertus	WR 639705	NL	6	D	NL	site - Parcel 113
A(7-2)22 AAC	Jim Downes	WR 634853	50	8	D	1986	site - Parcel 107
A(7-2)22 AAD	Robert Crisfield	WR 634118	50	6	D	NL	adjacent to east
A(7-2)22 ACC	C E Patterson	WR 804250	100	8	D	1967	adjacent to west
A(7-2)22 AD	C R Jordan	WR 637986	100	8	D	1972	unknown may be Parcel 106
A(7-2)22 ADA	Bill Jordon	WR 513525	160	7	D	1986	adjacent to east
A(7-2)22 ADC	F J Secord	WR 503063	100	8	D	1982	site - parcel unknown
A(7-2)22 ADC	Charlene Sovia	WR 530839	200	5	D	1991	site - Parcel 101
A(7-2)22 ADC	D L Cox	WR 622610	100	6	JD	1981	site - Parcel 102
A(7-2)22 ADC	Charlene Sovia	WR 633457	240	6	D	1980	site - Parcel 101
A(7-2)22 ADC	James Heinlein	WR 533458	105	8	D	1976	site - parcel unknown
A(7-2)22 ADD	Gladys Gilcrest	WR 540547	200	7	D	1993	adjacent to east
A(7-2)22 ADD	Theo Post	WR 541733	NL	NL	D	NL	adjacent to east
A(7-2)22 ADD	Pat Anderson	WR 634640	300	5	D	1981	adjacent to east
A(7-2)22 B	M J Small	WR 634915	100	NL	D	NL	unknown west of Site

Location	Owner	Registration Number	Depth (ft)	Diameter (in)	Well Use	Drill Date	Approximate Location Relative to Site
A(7-2)22 B	Diana Murphy	WR 638209	50	8	D	1973	unknown - may be Parcel 108
A(7-2)22 CD	Geraldo Brown	WR 650310	20	8	DJ	NL	unknown west of Site
A(7-2)22 D	M J Anderson	WR 635472	55	6	DJA	1975	unknown
A(7-2)22 D	C R Gordon	WR 637983	50	8	DJ	1976	unknown
A(7-2)22 D	C R Jordon	WR 637983	15	1	DJ	1967	unknown
A(7-2)22 D	C R Jordon	WR 637987	12	8	DJ	1972	unknown
A(7-2)22 D	G S Brown	WR 650309	50	8	DJ	NL	unknown
A(7-2)22 DAB	Joe and Cory Silva	WR 526182	100	8	D	1989	site - Parcel 100
A(7-2)22 DCA	J Combs	WR 640046	52	6	D	1979	site - Parcel 101

NOTES: A = Agriculture D = Domestic
 J = Stock NL = Not Listed

5 INFORMATION FROM SITE RECONNAISSANCE AND INTERVIEWS

The Site appears to have been rural residential properties or undeveloped native riparian land. Two of the parcels are currently vacant land. Items of potential environmental concern are summarized in the sections that follow.

5.1 HAZARDOUS SUBSTANCES IN CONNECTION WITH IDENTIFIED USES

A small auto-repair facility appeared to have been located on Parcel 110 located at 50440 North 36th Avenue. A engine hoist and other automotive equipment and parts were observed in several small sheds and structures near the northeast corner of the parcel. An area of heavy oily staining was observed on a dirt floor in a storage shed adjacent to the repair facility. In addition, an area of oily stained soil was observed on the west side of the entrance drive. This area had been covered with a layer of straw.

5.2 HAZARDOUS SUBSTANCE CONTAINERS AND UNIDENTIFIED SUBSTANCE CONTAINERS

An empty 55-gallon drum labeled uninhibited 1,1,1-trichloroethane was observed on the eastern boundary of Parcel 101. No evidence of leakage or staining was observed around the empty drum. A storage trailer on Parcel 103 contained four empty 55-gallon drums that formerly held diesel fuel. An area of oily soil staining was observed on the south side of the trailer.

In addition, empty drums were observed on many of the parcels. The majority of the drums appear to have been used for burning trash and were not labeled. Several of the drums appeared to have been used for watering troughs for horses or contained feed. A 55-gallon drum labeled chocolate syrup was observed on Parcel 101.

No evidence of leakage or staining was observed around the drums with the exception of those drums that formerly held diesel fuel, as discussed above.

5.3 STORAGE TANKS

No aboveground or underground storage tanks were observed on Site, other than propane or butane tanks for residential heating sources. A steel storage tank was observed on Parcel 104 near an abandoned structure. No bottom was observed in the tank other than an x-bracing welded across the bottom. This tank did not appear to have been used for the storage of petroleum products or a hazardous substance.

5.4 INDICATIONS OF PCBs

Arizona Public Service (APS) provides electrical service in the vicinity of the Site. Power poles were observed on individual parcels within the Site. Growth did not observe stains around the poles to suggest leakage or releases from the transformers. No identifying numbers were observed on the transformers. According to a telephone interview with an APS representative, transformers installed after 1985 are non-PCB containing. APS will test and immediately replace a transformer that has been leaking and contains PCBs (personal communication, May 16, 1995).

5.5 INDICATIONS OF SOLID WASTE DISPOSAL

There was a minor amount of dumping on the Site. Several discarded tires were observed on individual parcels. In addition, several areas of discarded metal scrap, household debris, automotive parts including tires, batteries, and containers of motor oil and antifreeze, and other items were observed on individual parcels.

5.6 PHYSICAL SETTING ANALYSIS

The western portion of the Site is located within the floodplain of the New River and portions of the Site are within the river channel river. The eastern portion of the Site has been developed with single family residences in a rural setting.

5.7 ANY OTHER CONDITIONS OF CONCERN

The residences are on septic systems. In addition, each of the parcels with the exception of Parcel 104 appears to have at least one well on the property.

A grave marker was observed on Parcel 100. It is unknown whether this marker is a memorial or an actual grave site. The headstone was labeled "Fern W. Hartley, Beloved Wife and Mother, 1906-1970."

A CMP was observed in the ground near the western boundary of Parcel 100. This pipe was approximately 24 inches in diameter and covered with a heavy steel lid. Growth personnel attempted to remove the lid but were unsuccessful. Its use is unknown. A small concrete pad was observed directly south of the CMP. No associated lateral piping was observed in the vicinity of the CMP or concrete pad.

A rock corral was observed on Parcel 105. This corral appeared to have possible historical significance. According to Mr. Jasper Combs this corral was used during the stage coach days in New River.

An area of oily soil staining was observed in a driveway on Parcel 109. Growth observed a 35-gallon metal trash-can approximately one-half full of oily stained soil. The stained soil appeared to extend into the soil for several inches.

Two of the parcels appeared to discharge gray water from washing machines and unidentified sources through piping directly onto the property. No distressed vegetation or discolored soil or sediment was observed at the discharge points of the piping.

A small concrete pad was observed on Parcel 109. A 1-inch diameter pipe was located directly east of the pad. The pipe extended out of the ground approximately 4 inches. The function of the pipe was unknown.

6 SUMMARY AND CONCLUSIONS

6.1 SUMMARY OF FINDINGS

Based on the results of this Phase I ESA, the Site appears to have been developed between approximately 1971 and 1985. No evidence of the use or storage of hazardous materials outside what may typically be used in a rural residential setting was noted except on Parcel 110. A automotive repair facility was located at the northeast corner of this parcel. Evidence of soil staining was observed on the ground in a storage shed and on the west side of the entrance drive into the property. The area west of the drive had been covered with a layer of straw. Two other small areas of oily soil staining were observed on Parcels 103 and 109.

The area of the Site is serviced by septic systems and privately-owned water wells. No publicly owned potable water system or waste treatment facility is available in the area of the Site. According to interviews provided by property owners, ADWR and the MCDEH, a septic system and well appears to be located on each of the developed parcels.

In addition, solid waste disposal is conducted by burning paper trash and disposal of non-flammable materials at a landfill. Numerous burn barrels were observed on the Site. In addition, an empty barrel labeled 1,1,1-uninhibited trichloroethane was observed on Parcel 100. Three empty steel drums that formerly contained diesel fuel were observed on Parcel 103.

6.2 CONCLUSIONS

Growth has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-94 of a parcel of land containing approximately 42 acres located in the East Half of the Northeast Quarter of Section 22, Township 7 North, Range 2 East in Maricopa County, Arizona. Any exceptions to or deletions from this practice are described in Section 2.4 of this report. This assessment revealed no evidence of recognized environmental conditions in connection with the Site except for the following:

Septic Systems. The area of the Site is serviced by individual septic systems. It is Growth's understanding that the residential properties will be demolished as the properties are located within the floodplain of the New River. Septic tanks provide a continuous access to the sub-surface, therefore they represent an element of risk to environmental conditions of the property through the potential introduction of petroleum or hazardous substances through sinks, toilets, drains and other openings to the sub-surface. Growth recommends that the septic systems be closed and a program of soil sampling and analysis be conducted if it appears that petroleum or hazardous substances have been introduced into a septic system.

Comprehensive Asbestos Survey. Growth recommends that a CAS be accomplished prior to the demolition of the residential structures. A comprehensive survey would conclusively address the extent and condition of the detected ACM and other potential ACM. The results of the CAS would allow the formulation of specific asbestos abatement recommendations for all identified ACM.

Water Well Abandonment. Growth recommends that FCDMC abandon all water wells on the Site. At least ten wells are currently registered as being located on the Site. ADWR requires that all unused wells be capped in accordance with Rule R12-15-822, or permanently abandoned in accordance with Rule R12-15-816. The ADWR rules are included in Appendix G of this report. In addition, a CMP approximately 24 inches in diameter was observed near the western edge of the parcel. This pipe was covered with a steel lid. The function of the

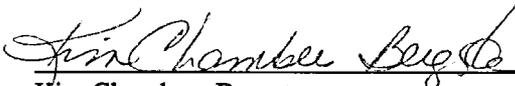
CMP was unknown. Due to the anticipated use of the Site and its location in a floodplain, Growth recommends that the wells be permanently abandoned and the CMP removed.

Soil Staining. Three parcels contained areas of oily stained soil within the Site boundaries. An area of soil staining was observed on Parcel 103, south of a trailer that contained empty 55-gallon drums. According to the property owner, the drums formerly contained diesel fuel. A 35-gallon metal trash-can was observed on Parcel 109 in the entrance drive. The can was approximately one-half full of oily stained soil. An area of oily stained soil was observed adjacent to the trash-can where it appeared that the staining extended several inches into the soil.

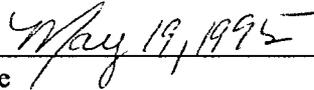
On Parcel 110, two areas of oily stained soil were observed. The first area is located on the west side of the entrance drive, where the dirt had been covered with a layer of straw. A second area was observed on the dirt floor of a storage shed adjacent to an automotive repair facility at the northeast corner of the parcel. The dirt floor was heavily stained. Growth recommends that the oily stained soil be removed and properly disposed.

Grave Marker. A headstone was observed on Parcel 100. Further investigation into whether this marker is a memorial or an actual grave site should be determined. If the Site has a potential for flooding, FCDMC may wish to explore having the grave marker moved to a higher location.

7 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS



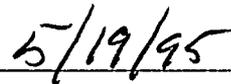
Kim Chambers Bergsten
Environmental Scientist



Date



Dennis C. Knudsen, P.E.
Manager, Client Services



Date

APPENDICES

APPENDIX A
SCOPE OF WORK

EXHIBIT A - SCOPE OF SERVICES
PHASE I ENVIRONMENTAL SITE ASSESSMENT
Arizona Sites

Growth Environmental Services, Inc., (Growth) will perform a Phase I Environmental Site Assessment (ESA) of the *property* in accordance with American Society for the Testing of Materials (ASTM) Standard E 1527 - 93. The scope of these services will include the following tasks. All italicized terms refer to the definitions set forth in Section 3.2 of the ASTM Standard. All work will be performed under the supervision of a qualified *environmental professional*.

TASK 1.0 - RECORDS REVIEW

Growth will obtain and review *reasonably ascertainable* and *practically reviewable* records in an attempt to identify *recognized environmental conditions* in connection with the *property*. Growth may utilize commercial sources for some aspects of the records review. The records will include the following *standard environmental record sources*

List	Approximate Minimum Search Distance (miles)
Federal NPL Site List	1.0
Federal CERCLIS List	0.5
Federal RCRA TSD Facility List	1.0
Federal RCRA Generator List	<i>property</i> and adjoining properties
Federal ERNS List	<i>property</i> only
ADEQ WQARF (State Superfund) List	1.0
Arizona CERCLA Information and Data System (ACIDS) List	1.0
ADEQ Open Landfills List	0.5
ADEQ Closed Landfills and Dumps List	0.5
ADEQ Registered UST List	<i>property</i> and adjoining properties
ADEQ Reported Leaking UST List	0.5

Task 1.1 - Additional Environmental Record Sources

The records may include one or more of the following *additional environmental record sources*, at the discretion of the *environmental professional*, to enhance and supplement the federal and state sources identified above.

List	Approximate Search Distance (miles)
Local or County Lists of Landfill/Solid Waste Disposal Sites	0.5
Records of Emergency Release Reports (SARA 304)	<i>property</i> only
Records of Contaminated Public Wells	0.5
Fire Department	<i>property</i> only
Local Water Quality Agency	0.5
Local Electric Utility Companies (for information relating to PCBs)	<i>property</i> only
Arizona Department of Water Resources Well Registry	0.5

Task 1.2 - Standard Physical Setting Source

Growth will review a current USGS 7.5 Minute Topographic Map showing the area on which the *property* is located.

Task 1.3 - Standard Historical Sources

Growth will review *reasonably ascertainable standard historical sources* in an attempt to develop a history of the previous uses or occupancies of the *property* and surrounding area. The objective will be to identify those uses or occupancies that are likely to have led to *recognized environmental conditions* in connection with the *property*. Growth will attempt to identify uses or occupancies of the property from the present dating back to 1940, or until the property was first developed. At least one of the standard historical sources will be researched to 1940, or a combination of historical sources will be used to determine the use or occupancies of the property dating back to 1940, or until the property was first developed. Search intervals will be such to adequately establish the site history within the extent records are *reasonably ascertainable*.

- | | |
|--------------------------------|-------------------------------------|
| 1. Aerial Photographs | 5. USGS 7.5 Minute Topographic Maps |
| 2. Fire Insurance Maps | 6. Local Street Directories |
| 3. Property Tax Files | 7. Building Department Records |
| 4. Recorded Land Title Records | 8. Zoning/Land Use Records |

If authorized by client. The chain of title search is not included in the scope of services unless specifically added. The user should check or engage a title company to check for *reasonably ascertainable recorded land title records* for *environmental liens* currently recorded against the *property*. Any environmental liens currently recorded against the property should be reported to the environmental professional.

EXHIBIT A - SCOPE OF SERVICES (cont.)

After checking all *reasonably ascertainable standard historical sources*, whatever history of previous site uses is available shall be deemed sufficient to comply with the ASTM Practice.

TASK 2.0 -SITE RECONNAISSANCE

Growth will conduct a *site visit* to the *property* during which the periphery of the *property* shall be *physically and visually observed*, as well as any structure(s) located on the *property*, to the extent the property or structures are not obstructed by bodies of water, adjacent buildings or other obstacles. The methodology used to observe the property will be documented in the report, as well as limitations imposed by physical obstacles and limiting conditions. The *site visit* will include:

General Site Setting: Current use of the property, adjoining properties, and surrounding area; past uses of the property, adjoining properties, and surrounding area, if indicated by the site reconnaissance; geologic, hydrogeologic, hydrologic, and topographic conditions, as indicated by visual observations; roads and structures on the property; the source of potable water and the sewage disposal system for the property.

Interior Observations: The means of heating and cooling the buildings on the property, including the fuel source. Stains/corrosion, floor drains, and sumps, to the extent they are visually or physically observed or identified from interviews, shall be described in the report.

Exterior Observations: The presence of hazardous materials including, but not limited to, polychlorinated biphenyls (PCBs), pesticides, above or below ground fuel/chemical storage tanks and pipelines, drums, transformers, drains, sumps, drywells, unidentified substance containers, unusual land colorations, and odors and physical irregularities. The presence of wells, stressed vegetation from other than insufficient water, pits, ponds or lagoons, and stained soil or pavement. The presence of waste water discharges to surface waters, septic systems, drains, drywells, holding ponds and public sewer systems. The presence of systems to dispose of solid wastes and other liquid waste. The presence of fill material other than landscaping material.

Adjoining Properties: This will include a visual examination, to the degree possible without trespass, of land use conditions that may adversely affect the *property* including: underground or above ground storage tanks; pits, ponds, and lagoons; landfills; stains, odors, distressed vegetation, or other obvious indications of *recognized environmental conditions*.

TASK 3.0 - INTERVIEWS WITH OWNERS AND OCCUPANTS

Growth will make reasonable attempts to interview *owners* or *occupants* of the property to obtain information regarding *recognized environmental conditions* in connection with the *property*. Prior to the *site visit*, the *user* (client) should identify a person with good knowledge of the *property*. If a *key site person* is not identified prior to the site visit, Growth will inquire during the site visit, whether a person with good knowledge of the property is available to be interviewed at that time.

Prior to the site visit, the *user* should provide, or cause to be provided to Growth any applicable environmental permits, site assessment reports, environmental audits, registration information for underground storage tanks, hazardous waste generator reports, manifests, material safety data sheets, environmental violation notices or environmental liens, or other documents applicable to an evaluation of *recognized environmental conditions* on the site, of which the *user* or *key site person* is aware.

TASK 4.0 -INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

Growth will make reasonable attempts to interview *local government officials* to obtain information regarding *recognized environmental conditions* in connection with the *property*. A reasonable attempt will be made to interview a staff member from the local fire department, and the county health agency for information regarding hazardous waste disposal and septic tank information. It should be noted that responses from local government officials may not be received within the time allotted for this assessment.

TASK 5.0 - EVALUATION AND REPORT PREPARATION

The report will generally follow the format outlined in ASTM E1527-93 unless otherwise specifically requested. The report will include documentation of all sources, including those that revealed no findings. Credentials of the environmental professional(s) involved in conducting the Phase I ESA will be provided including a qualifications statement of relevant experience of the individual(s) and corporate experience. The environmental professional(s) responsible for the Phase I ESA shall sign the report.

The report shall state whether the *user* (client) reported to the *environmental professional* any information pursuant to the *user's* responsibilities.

The report shall include the *environmental professional's* opinion of the impact of *recognized environmental conditions* in connection with the *property*.

EXHIBIT A - SCOPE OF SERVICES (cont.)

The report shall have a findings and conclusions section that states one of the following:

"Growth has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of, the *property*. Any exceptions to, or deletions from, this practice are described in Section [] of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property," or

"Growth has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of, the *property*. Any exceptions to, or deletions from, this practice are described in Section [] of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the *property* except for the following: (list)."

All deletions and deviations from this practice shall be listed individually and in detail, and all additions shall be listed.

Any additional services including a broader scope of assessment, more detailed conclusions, liability/risk evaluations, work plans for Phase II investigations, remediation techniques, etc., are beyond the scope of this practice.

LIMITATIONS OF THIS SCOPE OF SERVICES

Not every *property* will warrant the same level of assessment. Consistent with good commercial or customary practice, the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of inquiry.

The Phase I ESA process is not intended to provide a guarantee regarding the presence or absence of *petroleum products* or *hazardous substances* on the *property*. The findings and conclusions of this assessment will be limited by the following factors:

1. The proposed scope of work is not an exhaustive inquiry, but represents an appropriate, commercially prudent, and reasonable level of effort. In accordance with the ASTM Standard, this assessment is intended to reduce, but not eliminate, the level of uncertainty regarding the potential for recognized environmental conditions on the Site.
2. The availability of data may be limited, particularly in regards to historical Site uses. Where such limitations are material to the conclusions of the assessment, they will be identified in the report.
3. Growth cannot verify the accuracy of data obtained from government agencies, commercial sources, interview subjects, and other third-party sources.

This Phase I ESA represents conditions which exist at the time the work is performed, and should not be considered indicative of conditions which may exist at a substantially later date. The assessment will be completed in accordance with a reasonable understanding of the *recognized environmental conditions* and regulatory standards which exist at the time the work is performed.

ASSUMPTIONS

Growth' proposal to complete these services within the quoted cost and time are based upon certain assumptions. These include the cooperation of the site owners and occupants, and full access to the entire site without delay or re-work. Growth also assumes that if the *user* is aware of any specialized knowledge or experience that is material to *recognized environmental conditions* in connection with the *property*, the *user* will communicate any information based on such specialized knowledge or experience to the *environmental professional* prior to the site visit.

EXCLUSIONS

This Scope of Services does not include an evaluation of issues which are not addressed in the ASTM standard. Non-scope considerations a client may wish to address in connection with a Phase I ESA are listed below:

Archeological or other Cultural Resources	Asbestos-Containing Materials
Flood Zone Information (FEMA)	Lead-Based Paint
Lead in Drinking Water	Occupational Safety and Health Hazards
Radon	Threatened or Endangered Plants and Animals
Wetlands	

This list of non-scope considerations is not intended to be all-inclusive.

APPENDIX B
DEFINITIONS AND DESCRIPTION OF TERMS
SPECIFIC TO THE ASTM STANDARD

DEFINITIONS AND DESCRIPTION OF TERMS SPECIFIC TO THE ASTM STANDARD

Actual knowledge - the knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge than is knowledge imputed to an individual of entity.

Adjoining properties - any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

Aerial photographs - photographs taken from an airplane or helicopter (from a low enough altitude to allow identification of development and activities) of areas encompassing the property.

Appropriate inquiry - that inquiry constituting "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in CERCLA 42 USC § 9601(35)B, that will give a party to a *commercial real estate* transaction the *innocent landowner defense* to CERCLA liability (42 USC § 9601(A) and (B) and § 9607(b)(3)), assuming compliance with other elements of the defense.

Approximate minimum search distance - the area for which records must be obtained and reviewed pursuant to Section 7 of ASTM E 1527-3, subject to the limitations provided in that section. This may include areas outside the property and shall be measured from the nearest *property* boundary. This term is used in lieu of radius to include irregularly shaped properties.

Asbestos - six naturally occurring fibrous minerals in certain types of rock formations. Of the six, the minerals chrysotile, amosite, and crocidolite have been most used in building products. When mined and processed, asbestos is typically separated into very thin fibers. Because asbestos is strong, incombustible, and corrosion-resistant, asbestos was used in many commercial products beginning early in this century and peaking in the period from World War II into the 1970s. When inhaled in sufficient quantities, asbestos fibers can cause serious health problems.

Asbestos-containing material (ACM) - any material or product that contains more than one percent asbestos.

Building department records - those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property.

Commercial real estate - any real property except a dwelling or property in with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term which it has a commercial function, as in the building of such dwellings for profit). This term includes but is not limited to undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; properties used for residential purposes that has more than four residential dwelling units; and property with no more than four dwelling units for residential use when it has a commercial function, as in the building of such dwellings for profit.

Commercial real estate transaction - a transfer of title to or possession of real property or receipt of a security interest in real property, except that it does not include transfer of title to or possession of real property or the receipt of a security interest in real property with respect to an individual dwelling or building containing fewer

than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by persons or entities in the business of building or developing dwelling units.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) - the list of sites compiled by EPA that EPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the National Priorities list.

Construction debris - concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to property.

Contaminated public wells - public wells used for drinking water that have been designated by a government entity as contaminated by toxic substances, (e.g., chlorinated solvents), or as having water unsafe to drink without treatment.

Demolition debris - concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Drum - a container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store hazardous substances or petroleum products.

Drywells - underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. Drywells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional) and wastewater disposal (often illegal).

Due diligence - the process of inquiring into the environmental characteristics of a parcel of *commercial real estate* or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes.

Dwelling - structure or portion thereof used for residential habitation.

Environmental audit - the investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe Practice E 1528 (Transaction Screen) or Practice E 1527 (Phase I Environmental Site Assessment), although an environmental audit may include an *environmental site assessment* or, if prior audits are available, may be part of an environmental site assessment.

Environmental lien - a charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 USC § 9607(1) and similar state or local laws.

Environmental professional - a person possessing sufficient training and experience necessary to conduct a *site reconnaissance*, *interviews*, and other activities in accordance with ASTM E 1527 Practice, and from the information generated by such activities, having the ability to develop conclusions regarding *recognized environmental conditions* in connection with the *property* in question. An individual's status as an environmental professional may be limited to the type of assessment to be performed or to specific segments of the assessment for which the professional is responsible. The person may be an independent contractor or an employee of the *user*.

Environmental site assessment (ESA) - the process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the user, an environmental site assessment may include more inquiry than that constituting *appropriate inquiry* or, if the user is not concerned about qualifying for the *innocent landowner defense*, less inquiry than that constituting *appropriate inquiry*. An environmental site assessment is both different from and less rigorous than an *environmental audit*.

ERNS list - EPA's Emergency Response Notification System list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR Parts 302 and 355.

Federal Register (FR) - publication of the United States government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the Federal Register.

Fill dirt - dirt, soil, sand, or other earth, that is obtained off-site, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.

Fire insurance maps - maps produced for private fire insurance companies that indicate uses of properties at specified dates and that encompass the property.

Hazardous substance - A substance defined as a hazardous substance pursuant to CERCLA 42 USC § 9601(1), as interpreted by EPA regulations and the courts; "(A) any substance designated pursuant to section 1321(b)(2)(a) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (42 USC §6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC §6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 USC § 7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator of the EPA has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."

Hazardous waste - any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC §6901 *et seq.*) has been suspended by Act of Congress). The Solid Waste Disposal Act of 1980 amended RCRA. RCRA defines a hazardous waste, in 42 USC § 6903, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may--(A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."

Hazardous waste/contaminated sites - sites on which a release has occurred, or is suspected to have occurred, or is suspected to have occurred, of any *hazardous substance, hazardous waste, or petroleum products*, and that release or suspected release has been reported to a government entity.

Innocent landowner defense - that defense to CERCLA liability provided in 42 USC § 9601(35) and § 9607(b)(3). One of the requirements to qualify for this defense is that the party make "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice." There are additional requirements to qualify for this defense. See Appendix XI of ASTM Standard E 1527 or E 1528.

Interviews - those portions of ASTM Practice E 1527 that address questions to be asked of *owners* and *occupants* of the *property* and questions to be asked of local government officials.

Key site manager - the person identified by the *owner* of a *property* as having good knowledge of the uses and physical characteristics of the property.

Landfill - a place, location, tract of land, area or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

Local government agencies - those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.

Local street directories - directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses.

LUST sites - state lists of leaking underground storage tank sites. Section 9003 (h) of Subtitle I of RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up releases from UST systems or require owners and operators to do so.

Major occupants - those tenants, subtenants, or other persons or entities each of which uses at least 40% of the leasable area of the *property* or any anchor or tenant when the *property* is a shopping center.

Material safety data sheet (MSDS) - written or printed material concerning a *hazardous substance* which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

National Contingency Plan (NCP) - the National Oil and Hazardous Substances Pollution Contingency Plan, found at 40 CFR § 300, that is the EPA's blueprint on how hazardous substances are to be cleaned up pursuant to CERCLA.

National Priorities List (NPL) - list compiled by EPA pursuant to CERCLA 42 USC § 9605(a)(8)(B) of properties with the highest priority for cleanup pursuant to EPA's hazard ranking system. See 40 CFR Part 300.

Occupants - those tenants, subtenants, or other persons or entities using the *property* or a portion of the *property*.

Obvious - that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while *visually or physically observing the property*.

Other historical sources - any source or sources other than *aerial photographs, fire insurance maps, property tax files, recorded land title records, USGS 7.5 Minute topographic maps, local street directories, building department records, or zoning/land use records* that are credible to a reasonable person and that identify past

uses or occupancies of the property. The term includes records in the files and/or personal knowledge of the *property owner* and/or *occupants*.

Owner - generally the fee owner of record of the property.

Petroleum exclusion - the exclusion from CERCLA liability provided in 42 USC §9601(14), as interpreted by the courts and EPA: "The term (hazardous substance) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

Petroleum products - those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 USC §9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 USC §9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*.

Phase I Environmental Site Assessment - the process described in ASTM E 1527. A Phase I Environmental Site Assessment must be performed by an *environmental professional*.

Pits, ponds, or lagoons - man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an obvious wastewater discharge.

Physical setting sources - sources that provide information about the geologic, hydrogeologic, or topographic characteristics of a *property*.

Practically reviewable - information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally *practically reviewable*. For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not *practically reviewable* unless they can be obtained from the source agency in the small geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable*.

Preparer - the person preparing the *transaction screen questionnaire* pursuant to Practice E 1528, who may be either the *user* or the person to whom the *user* has delegated the preparation of the *transaction screen questionnaire*.

Property - the real property that is the subject of the *environmental site assessment* described in ASTM E 1527. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

Property tax files - the files kept for property tax purposes by the local jurisdiction where the property is located and includes records of past ownership, appraisals, maps, sketches, photos, or other information that is reasonably ascertainable and pertaining to the property.

Publicly available - information that is publicly available means that the source of the information allows access to the information by anyone upon request.

RCRA generators - those persons or entities that generate hazardous wastes, as defined and regulated by RCRA.

RCRA generators list - list kept by EPA of those persons or entities that generate hazardous waste as defined and regulated by RCRA.

RCRA TSD facilities - those facilities on which treatment, storage, and/or disposal of hazardous wastes takes place as defined and regulated by RCRA.

RCRA TSD facilities list - list kept by EPA of those facilities on which treatment, storage, and/or disposal of hazardous wastes takes place as defined and regulated by RCRA.

Reasonably ascertainable - for purposes of both ASTM Practice E 1527 and E 1528, information that is (1) *publicly available*, (2) obtainable from its source within a reasonable time and cost constraints, and (3) *practically reviewable*.

Recognized environmental conditions - the presence or likely presence of any *hazardous substance* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substance* or *petroleum products* on the *property* or into the ground, groundwater, or surface water of the *property*. The term includes *hazardous substance* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Recorded land title records - records of fee ownership, leases, land contracts, easements, liens, and other encumbrances on or of the property recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located. (Often such records are kept by a municipal or county recorder or clerk). Such records may be obtained from title companies or directly from the local government agency. Information about the title to the property that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located, are not considered part of recorded land title records.

Records of emergency release notifications (SARA § 304) - Section 304 of EPCRA or Title III of SARA requires operators of facilities to notify their local emergency planning committee (as defined in EPCRA) and state emergency response commission (as defined in EPCRA) of any release beyond the facility's boundary of any reportable quantity of any extremely hazardous substance. Often the local fire department is the local emergency planning committee. Records of such notifications are "Records of Emergency Release Notifications" (SARA § 304).

Records review - that part of the Phase I Environmental Site Assessment that addresses which records shall or may be reviewed.

Report - the written record of a transaction screen process as required by Practice E 1528 or the written report prepared by the environmental professional and constituting part of a "Phase I Environmental Site Assessment," as required by ASTM E 1527.

Site reconnaissance - that part of ASTM Practice E 1527 (§ 8) that addresses what should be done in connection with the *site visit*. The site reconnaissance includes, but is not limited to, the *site visit* done in connection with such a Phase I Environmental Site Assessment.

Site visit - the visit to the property during which observations are made constituting the *site reconnaissance* section of the Phase I Environmental Site Assessment in Practice E 1527 and the *site visit* requirement of the transaction screen process in Practice E 1528.

Solid waste disposal site - a place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *landfill* and is also known as a garbage dump, trash dump, or similar term.

Solvent - a chemical compound that is capable of dissolving another substance and is itself a *hazardous substance*, used in a number of manufacturing/industrial processes including but not limited to the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

Standard environmental record sources - those records specified in the Records Review Section of the Phase I Environmental Site Assessment of Practice E 1727 (§ 7.2.1.1).

Standard historical sources - those sources of information about the history of uses of property specified in the Records Review Section of the Phase I Environmental Site Assessment of Practice E 1727 (§ 7.3.4).

Standard physical setting source - a current USGS 7.5 topographic map (if any) showing the area of which the property is location.

Standard practices - the activities set forth in either Practice E 1527 or E 1528, or both, for the conduct of environmental site assessments.

Standard sources - sources of environmental, physical setting, or historical records specified in the Records Review (§ 7) of the Phase I Environmental Site Assessment of Practice E 1527.

State registered USTs - state lists of underground storage tanks required to be registered under Subtitle I, Section 9002 of RCRA.

Sump - a pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

Transaction screen process - the process described in Practice E 1527.

Transaction screen questionnaire - the questionnaire provided in Practice E 1527 (§ 6).

TSD facility - treatment, storage, or disposal facility (*see RCRA TSD facilities*).

Underground storage tank (UST) - any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances or petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

User - the party seeking to use Practice E 1528 to perform an *environmental site assessment* of the *property*. A user may include, without limitation, a purchaser of *property*, a potential tenant of *property*, an *owner* of *property*, a lender, or a property manager.

USGS 7.5 Minute Topographic Map - the map (if any) available from or produced by the United States Geological Survey, entitled "USGS 7.5 Minute Topographic Map," and showing the *property*.

Visually and/or physically observed - during a *site visit* pursuant to Practice E 1528 or E 1527, this term means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term "walking through" is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located on it.

Wastewater - water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. Wastewater does not include water originating on or passing through or adjacent to a site, such as storm water flows, that has not been used in industrial or manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

Zoning/land use records - those records of the local government in which the *property* is located indicating the uses permitted by the local government in particular zones within its jurisdiction. The records may consist of maps and/or written records. They are often located in the planning department of a municipality or county.

APPENDIX C
INTERVIEW DOCUMENTATION

PHASE I ENVIRONMENTAL ASSESSMENT INTERVIEW QUESTIONS

New River Mitigation Project

CONTACT NAME, ADDRESS, AND PHONE NUMBER:

Joseph Silva, 49801 N. 37th Ave 992-1340

CONTACTS RELATIONSHIP TO THE SUBJECT PROPERTY:

owner

INFORMATION CONCERNING OTHER POSSIBLE INTERVIEW SUBJECTS:

1. Time Frame that contact has information about the subject property?

1986- 1995

2. Current and former use of the subject property?

residence

3. Is the subject property on city sewer or a septic system? Have there ever historically been any septic systems located on the subject property?

septic

4. Who provides water to the subject property? Are there any wells located on the subject property?

private water well

5. Who provides electricity to the subject property? Are there any transformers or florescent lighting ballasts on the subject property that may contain PCBs? Have any of the transformers or ballasts exploded or leaked?

APS

6. Who provides sanitation to the subject property? Is there now or has there historically been any illicit disposal activities on the subject property or in the immediate area surrounding the subject property?

OWNER

7. Who provides gas to the subject property?

N/A

8. What is the total size of the subject property? Can contact physically or verbally define the boundaries of the subject property?

1 Acre +

9. Can contact describe the number and type of structures present on the subject property? What are the current and historical uses of the structures present on the property?

YES

10. Was the property ever utilized as agricultural land? What types of crops were grown? Were pesticides or herbicides utilized on the subject property to any degree? How much and what kind?

NO

11. Are there currently or have there historically been underground or aboveground storage tanks on the subject property? How many, Fuel type, Capacity, Fuel use, installation date, tank construction, piping type, tank tightness testing?

NO

12. Has there been any significant storage, usage or disposal of chemicals or other hazardous substances on the subject property? Have there been any spills, leaks or other hazardous materials incidents on the subject property or in the immediate area surrounding the subject property?

NO

13. What types of properties or facilities have been located in the immediate area surrounding the subject property?

RESIDENCE

14. What is the general drainage pattern on the subject property? Is there any improved drainage installed? Are there any drywells or sumps located on the subject property?

North to South

15. Does the contact have any maps or drawings of the subject property? Does the contact have any permits or waivers for activities that may take place on the subject property?

No

16. Does contact know of any unusual features about the property, ie. unidentified pipes, depressions, stains etc?

No

17. Is the contact aware of any asbestos containing materials or prior asbestos abatement activities that may have taken place on the subject property?

No

18. Has there been any Radon testing accomplished on the subject property? Have Radon mitigation units ever been installed on the subject property?

No

19. Is the contact aware of any landfills or areas of heavy dumping close to the subject property?

No

20. Have there been any liens placed against the property for environmental or health and safety concerns?

No

PHASE I ENVIRONMENTAL ASSESSMENT INTERVIEW QUESTIONS

CONTACT NAME, ADDRESS, AND PHONE NUMBER:

Jasper Cornier
49512 W. 36th. Ave. (602-465-9518)
Ph. 3. 85027

CONTACTS RELATIONSHIP TO THE SUBJECT PROPERTY:

Owner - Builder

INFORMATION CONCERNING OTHER POSSIBLE INTERVIEW SUBJECTS:

1. Time Frame that contact has information about the subject property?

8:AM - 8:PM
except Thursdays

2. Current and former use of the subject property?

former - Rangland
Current - Residential

3. Is the subject property on city sewer or a septic system? Have there ever historically been any septic systems located on the subject property?

Septic System - Current

4. Who provides water to the subject property? Are there any wells located on the subject property?

Private well

5. Who provides electricity to the subject property? Are there any transformers or florescent lighting ballasts on the subject property that may contain PCBs? Have any of the transformers or ballasts exploded or leaked?

A. P. S. Electric
no to Ballasts
no explosions or leaks

6. Who provides sanitation to the subject property? Is there now or has there historically been any illicit disposal activities on the subject property or in the immediate area surrounding the subject property?

*No Sanitation Services
No illicit dumping*

7. Who provides gas to the subject property?

no gas service

8. What is the total size of the subject property? Can contact physically or verbally define the boundaries of the subject property?

*One Acre
Yes - Can Define Corners*

9. ¹Can contact describe the number and type of structures present on the subject property? ²What are the current and historical uses of the structures present on the property?

*#1 - yes
#2 - living Quarters*

10. Was the property ever utilized as agricultural land? What types of crops were grown? Were pesticides or herbicides utilized on the subject property to any degree? How much and what kind?

*no Crops
no Pesticides*

11. Are there currently or have there historically been underground or aboveground storage tanks on the subject property? How many, Fuel type, Capacity, Fuel use, installation date, tank construction, piping type, tank tightness testing?

none

12. Has there been any significant storage, usage or disposal of chemicals or other hazardous substances on the subject property? Have there been any spills, leaks or other hazardous materials incidents on the subject property or in the immediate area surrounding the subject property?

none

13. What types of properties or facilities have been located in the immediate area surrounding the subject property?

all Residential

14. What is the general drainage pattern on the subject property? Is there any improved drainage installed? Are there any drywells or sumps located on the subject property?

*Natural grade north to South
no Sumps or wells*

15. Does the contact have any maps or drawings of the subject property? Does the contact have any permits or waivers for activities that may take place on the subject property?

none

16. Does contact know of any unusual features about the property, ie. unidentified pipes, depressions, stains etc?

none

17. Is the contact aware of any asbestos containing materials or prior asbestos abatement activities that may have taken place on the subject property?

none

18. Has there been any Radon testing accomplished on the subject property? Have Radon mitigation units ever been installed on the subject property?

none

19. Is the contact aware of any landfills or areas of heavy dumping close to the subject property?

none

20. Have there been any liens placed against the property for environmental or health and safety concerns?

no

PHASE I ENVIRONMENTAL ASSESSMENT INTERVIEW QUESTIONS

CONTACT NAME, ADDRESS, AND PHONE NUMBER:

Diana M. Murphy
52018 N. 36th Ave New River, AZ 85027 (602) 465-5315

CONTACTS RELATIONSHIP TO THE SUBJECT PROPERTY:

OWNER

INFORMATION CONCERNING OTHER POSSIBLE INTERVIEW SUBJECTS:

1. Time Frame that contact has information about the subject property?

5 yrs

2. Current and former use of the subject property?

Home

3. Is the subject property on city sewer or a septic system? Have there ever historically been any septic systems located on the subject property?

septic

4. Who provides water to the subject property? Are there any wells located on the subject property?

2 wells

5. Who provides electricity to the subject property? Are there any transformers or florescent lighting ballasts on the subject property that may contain PCBs? Have any of the transformers or ballasts exploded or leaked?

APS

6. Who provides sanitation to the subject property? Is there now or has there historically been any illicit disposal activities on the subject property or in the immediate area surrounding the subject property?

We go to the Dump

7. Who provides gas to the subject property?

No gas

8. What is the total size of the subject property? Can contact physically or verbally define the boundaries of the subject property?

1.44 acres

9. Can contact describe the number and type of structures present on the subject property? What are the current and historical uses of the structures present on the property?

House, Pole Barn, 2 second house not finished has electric Carpet some drywall finishing 2-3 stories high

10. Was the property ever utilized as agricultural land? What types of crops were grown? Were pesticides or herbicides utilized on the subject property to any degree? How much and what kind?

Don't Know

11. Are there currently or have there historically been underground or aboveground storage tanks on the subject property? How many, Fuel type, Capacity, Fuel use, installation date, tank construction, piping type, tank tightness testing?

0

12. Has there been any significant storage, usage or disposal of chemicals or other hazardous substances on the subject property? Have there been any spills, leaks or other hazardous materials incidents on the subject property or in the immediate area surrounding the subject property?

Don't Know

13. What types of properties or facilities have been located in the immediate area surrounding the subject property?

Homes

14. What is the general drainage pattern on the subject property? Is there any improved drainage installed? Are there any drywells or sumps located on the subject property?

NO

15. Does the contact have any maps or drawings of the subject property? Does the contact have any permits or waivers for activities that may take place on the subject property?

NO

16. Does contact know of any unusual features about the property, ie. unidentified pipes, depressions, stains etc?

NO

17. Is the contact aware of any asbestos containing materials or prior asbestos abatement activities that may have taken place on the subject property?

NO

18. Has there been any Radon testing accomplished on the subject property? Have Radon mitigation units ever been installed on the subject property?

NO

19. Is the contact aware of any landfills or areas of heavy dumping close to the subject property?

NO

20. Have there been any liens placed against the property for environmental or health and safety concerns?

NO

PHASE I ENVIRONMENTAL ASSESSMENT INTERVIEW QUESTIONS

CONTACT NAME, ADDRESS, AND PHONE NUMBER:

David & Pamela Byrket - 465-7826
50440 N 36 ave PMP A 85023

CONTACTS RELATIONSHIP TO THE SUBJECT PROPERTY:

OWNER

INFORMATION CONCERNING OTHER POSSIBLE INTERVIEW SUBJECTS:

1. Time Frame that contact has information about the subject property? ~~18 yrs~~ 20 yrs

2. Current and former use of the subject property?

Residence

3. Is the subject property on city sewer or a septic system? Have there ever historically been any septic systems located on the subject property?

septic system

4. Who provides water to the subject property? Are there any wells located on the subject property?

well

5. Who provides electricity to the subject property? Are there any transformers or florescent lighting ballasts on the subject property that may contain PCBs? Have any of the transformers or ballasts exploded or leaked?

APS

6. Who provides sanitation to the subject property? Is there now or has there historically been any illicit disposal activities on the subject property or in the immediate area surrounding the subject property?

Septic, NO

7. Who provides gas to the subject property? Propane

Northern Energy

8. What is the total size of the subject property? Can contact physically or verbally define the boundaries of the subject property?

7 1/2 acres, yes

9. Can contact describe the number and type of structures present on the subject property? What are the current and historical uses of the structures present on the property?

yes, Residence

10. Was the property ever utilized as agricultural land? What types of crops were grown? Were pesticides or herbicides utilized on the subject property to any degree? How much and what kind?

NO

11. Are there currently or have there historically been underground or aboveground storage tanks on the subject property? How many, Fuel type, Capacity, Fuel use, installation date, tank construction, piping type, tank tightness testing?

NO

12. Has there been any significant storage, usage or disposal of chemicals or other hazardous substances on the subject property? Have there been any spills, leaks or other hazardous materials incidents on the subject property or in the immediate area surrounding the subject property?

No

13. What types of properties or facilities have been located in the immediate area surrounding the subject property?

Residence

14. What is the general drainage pattern on the subject property? Is there any improved drainage installed? Are there any drywells or sumps located on the subject property?

NO

15. Does the contact have any maps or drawings of the subject property? Does the contact have any permits or waivers for activities that may take place on the subject property?

?

16. Does contact know of any unusual features about the property, ie. unidentified pipes, depressions, stains etc?

NO

17. Is the contact aware of any asbestos containing materials or prior asbestos abatement activities that may have taken place on the subject property?

NO

18. Has there been any Radon testing accomplished on the subject property? Have Radon mitigation units ever been installed on the subject property?

NO

19. Is the contact aware of any landfills or areas of heavy dumping close to the subject property?

NO

20. Have there been any liens placed against the property for environmental or health and safety concerns?

NO

PHASE I ENVIRONMENTAL ASSESSMENT INTERVIEW QUESTIONS

CONTACT NAME, ADDRESS, AND PHONE NUMBER:

Richard McKeon
3541 W. Photo View Rd, Phoenix AZ 85027

Assessor's Parcel
202-06-015E

CONTACTS RELATIONSHIP TO THE SUBJECT PROPERTY:

Owner

INFORMATION CONCERNING OTHER POSSIBLE INTERVIEW SUBJECTS:

1. Time Frame that contact has information about the subject property?

1981 - present

2. Current and former use of the subject property?

Residence

3. Is the subject property on city sewer or a septic system? Have there ever historically been any septic systems located on the subject property?

Septic system

4. Who provides water to the subject property? Are there any wells located on the subject property?

Well

5. Who provides electricity to the subject property? Are there any transformers or florescent lighting ballasts on the subject property that may contain PCBs? Have any of the transformers or ballasts exploded or leaked?

APS
transformer on power pole on property

6. Who provides sanitation to the subject property? Is there now or has there historically been any illicit disposal activities on the subject property or in the immediate area surrounding the subject property?

No

7. Who provides gas to the subject property?

N/A

8. What is the total size of the subject property? Can contact physically or verbally define the boundaries of the subject property?

1.8 acres, Yes

9. Can contact describe the number and type of structures present on the subject property? What are the current and historical uses of the structures present on the property?

Home, ~~plus~~ 2x storage sheds, pump house

10. Was the property ever utilized as agricultural land? What types of crops were grown? Were pesticides or herbicides utilized on the subject property to any degree? How much and what kind?

No

11. Are there currently or have there historically been underground or aboveground storage tanks on the subject property? How many, Fuel type, Capacity, Fuel use, installation date, tank construction, piping type, tank tightness testing?

No

12. Has there been any significant storage, usage or disposal of chemicals or other hazardous substances on the subject property? Have there been any spills, leaks or other hazardous materials incidents on the subject property or in the immediate area surrounding the subject property?

No

13. What types of properties or facilities have been located in the immediate area surrounding the subject property?

residence

14. What is the general drainage pattern on the subject property? Is there any improved drainage installed? Are there any drywells or sumps located on the subject property?

No

15. Does the contact have any maps or drawings of the subject property? Does the contact have any permits or waivers for activities that may take place on the subject property?

Yes, we have legal description

16. Does contact know of any unusual features about the property, ie. unidentified pipes, depressions, stains etc?

No

17. Is the contact aware of any asbestos containing materials or prior asbestos abatement activities that may have taken place on the subject property?

No

18. Has there been any Radon testing accomplished on the subject property? Have Radon mitigation units ever been installed on the subject property?

No

19. Is the contact aware of any landfills or areas of heavy dumping close to the subject property?

No

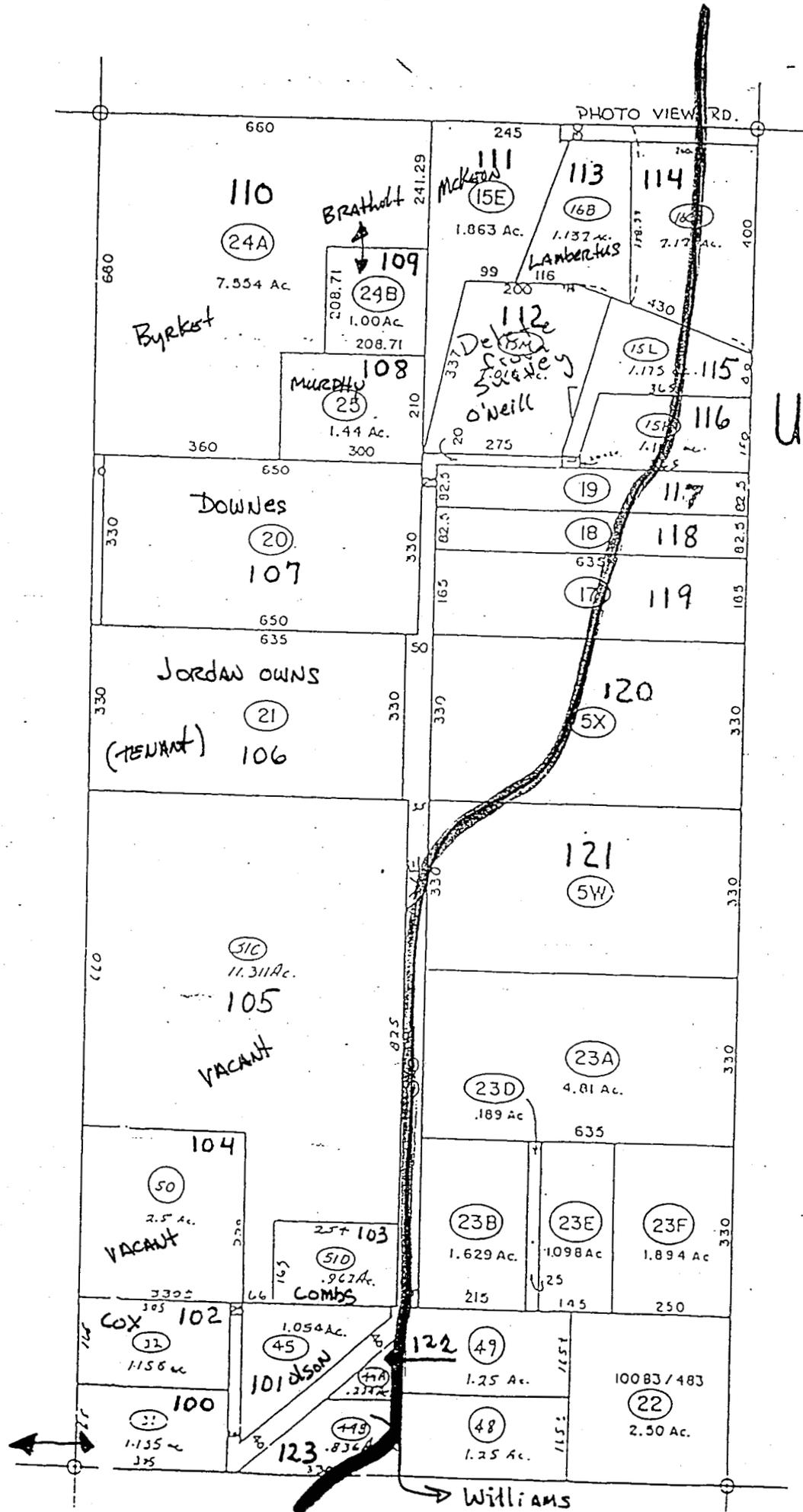
20. Have there been any liens placed against the property for environmental or health and safety concerns?

No

APPENDIX D

PLAT MAP

E² NE⁴ Section 22 7N2E



Upper New River
R-7222-100

- 031 = 1.135
 - 032 = 1.158
 - 050 = 2.5
 - 051C = 11.311
 - 020 = 4.92
 - 024B = 1.00
 - 015E = 1.863
 - 016B = 1.132
 - 045 = 1.054
 - 051D = 0.967
 - 021 = 4.81
 - 025 = 1.44
 - 024A = 7.554
 - 044B = 0.836
-
- ≅ 42

SILVA

APPENDIX E
ADVANCE NOTICE OF SITE VISIT LETTERS



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Joseph C. and Corinne F. Silva
49801 North 37th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-031 FOR FLOOD CONTROL PURPOSES

Dear Mr. and Mrs. Silva:

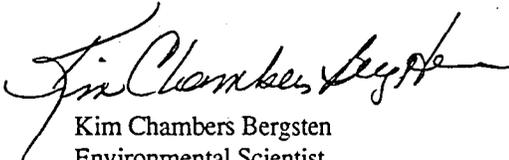
Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-031. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

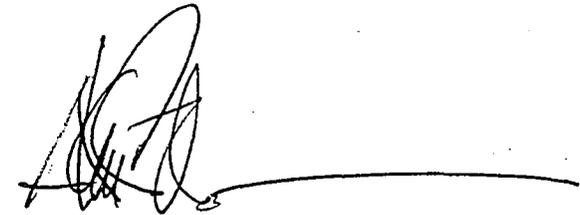
We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.


Kim Chambers Bergsten
Environmental Scientist


Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Ms. Deborah L. Cox
49816 North 37th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-032 FOR FLOOD CONTROL PURPOSES

Dear Ms. Cox:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-032. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.


Kim Chambers Bergsten
Environmental Scientist


Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. George P. Young
1505 West Maryland Avenue
Phoenix, Arizona 85015

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-050, 051C FOR FLOOD CONTROL PURPOSES

Dear Mr. Young:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-050, 051C. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.

Kim Chambers Bergsten
Environmental Scientist

Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. James J. and Mrs. Lisabeth T. Downes
50420 North 36th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-020 FOR FLOOD CONTROL PURPOSES

Dear Mr. and Mrs. Downes:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-020. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.

Kim Chambers Bergsten
Environmental Scientist

Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Todd M. and Mrs. Julie A. Bratholt
50422 North 36th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-024B FOR FLOOD CONTROL PURPOSES

Dear Mr. and Mrs. Bratholt:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No.202-06-024B. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.



Kim Chambers Bergsten
Environmental Scientist



Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Richard J. and Mrs. Patricia L. McKeon
3541 West Photo View Road
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-015E FOR FLOOD CONTROL PURPOSES

Dear Mr. and Mrs. McKeon:

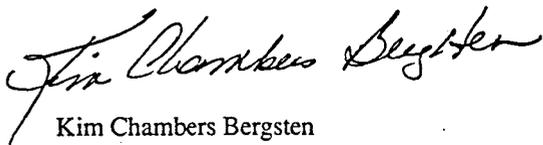
Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No.202-06-015E. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

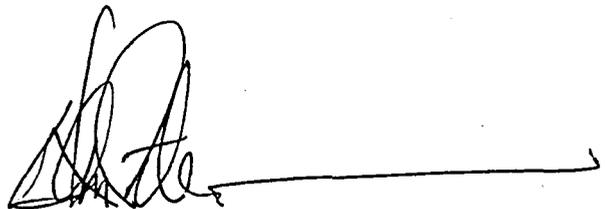
If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.



Kim Chambers Bergsten
Environmental Scientist



Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Larry G. and Mrs. Debra S. Lambertus
3525 West Photo View Road
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-016B FOR FLOOD CONTROL PURPOSES

Dear Mr. and Mrs. Lambertus:

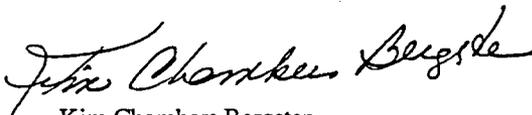
Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-016B. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

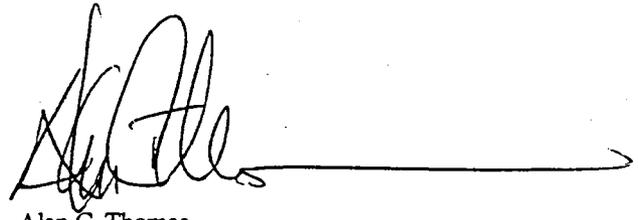
If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.



Kim Chambers Bergsten
Environmental Scientist



Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Thomas F. Olson
49820 North 36th Avenue
New River, Arizona 85027

**SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW
 RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-045
 FOR FLOOD CONTROL PURPOSES.**

Dear Mr. Olson:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-045. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.

Kim Chambers Bergsten
Environmental Scientist

Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
 Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Jasper and Mrs. Sylvia Ann Combs
49812 North 36th Avenue
New River, Arizona 85027

**SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW
RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-051D
FOR FLOOD CONTROL PURPOSES**

Dear Mr. and Mrs. Combs:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-051D. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

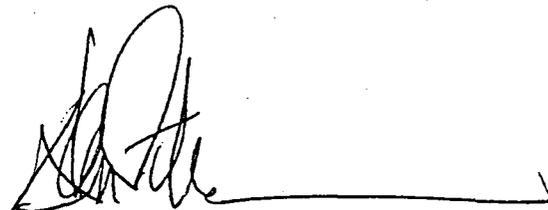
If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.



Kim Chambers Bergsten
Environmental Scientist



Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. Charles and Mrs. Marie Jordon
52011 North 36th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-021 FOR FLOOD CONTROL PURPOSES

Dear Mr. and Mrs. Jordon:

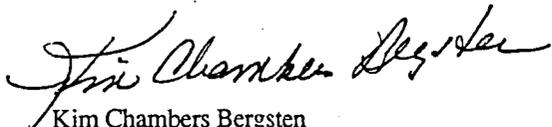
Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No.202-06-021. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

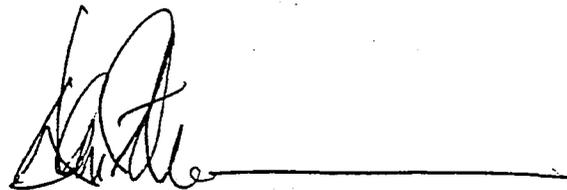
If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.



Kim Chambers Bergsten
Environmental Scientist



Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Ms. Diane M. Murphy
52018 North 36th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-025 FOR FLOOD CONTROL PURPOSES

Dear Ms. Murphy:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No. 202-06-025. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.

Kim Chambers Bergsten
Environmental Scientist

Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. David and Mrs. Pamela Byrket
50440 North 36th Avenue
New River, Arizona 85027

**SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW
 RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-024A
 FOR FLOOD CONTROL PURPOSES**

Dear Mr. and Mrs. Byrket:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No.202-06-024A. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request to be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.

Kim Chambers Bergsten
Environmental Scientist

Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questions

cc: William Knight, Flood Control District of Maricopa County
 Growth File AR390-1961



GROWTH
Growth Environmental Services, Inc.

Phoenix District
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393
602-248-8808
602-248-7722 Fax

April 18, 1995

Mr. George K. Williams
49507 North 36th Avenue
New River, Arizona 85027

SUBJECT: ADVANCE NOTICE OF SITE VISIT FOR ENVIRONMENTAL ASSESSMENT FOR NEW RIVER FLOODPLAIN MITIGATION PROJECT, ASSESSOR'S PARCEL NO. 202-06-044B FOR FLOOD CONTROL PURPOSES

Dear Mr. Williams:

Growth Environmental Services, Inc. (Growth) has been retained by the Flood Control District of Maricopa County to perform a Phase I Environmental Assessment (ESA) at Assessor's Parcel No.202-06-044B. The site visit will be conducted during the week of April 24, 1995. No digging, excavation, drilling or sampling of material will be performed by Growth employees during this assessment. Individuals conducting the site visit will be prepared to identify themselves as Growth employees.

We are enclosing a copy of a Phase I Assessment Interview form which we request be filled out to the best of your knowledge. Growth requests that the interview form be returned by May 1, 1995.

If you would like any additional information please feel free to contact Mr. William Knight, Flood Control District of Maricopa County at 506-1501, or Alan Thomas or Kim Chambers Bergsten at Growth Environmental Services, Inc. Thank you very much for your assistance.

Sincerely,

GROWTH ENVIRONMENTAL SERVICES, INC.

Kim Chambers Bergsten
Environmental Scientist

Alan C. Thomas
District Manager

Enclosure: Phase I Environmental Assessment Interview Questionnaire

cc: William Knight, Flood Control District of Maricopa County
Growth File AR390-1961

PHASE I ENVIRONMENTAL ASSESSMENT INTERVIEW QUESTIONS

CONTACT NAME, ADDRESS, AND PHONE NUMBER:

CONTACTS RELATIONSHIP TO THE SUBJECT PROPERTY:

INFORMATION CONCERNING OTHER POSSIBLE INTERVIEW SUBJECTS:

1. Time Frame that contact has information about the subject property?
2. Current and former use of the subject property?
3. Is the subject property on city sewer or a septic system? Have there ever historically been any septic systems located on the subject property?
4. Who provides water to the subject property? Are there any wells located on the subject property?
5. Who provides electricity to the subject property? Are there any transformers or florescent lighting ballasts on the subject property that may contain PCBs? Have any of the transformers or ballasts exploded or leaked?

6. Who provides sanitation to the subject property? Is there now or has there historically been any illicit disposal activities on the subject property or in the immediate area surrounding the subject property?

7. Who provides gas to the subject property?

8. What is the total size of the subject property? Can contact physically or verbally define the boundaries of the subject property?

9. Can contact describe the number and type of structures present on the subject property? What are the current and historical uses of the structures present on the property?

10. Was the property ever utilized as agricultural land? What types of crops were grown? Were pesticides or herbicides utilized on the subject property to any degree? How much and what kind?

11. Are there currently or have there historically been underground or aboveground storage tanks on the subject property? How many, Fuel type, Capacity, Fuel use, installation date, tank construction, piping type, tank tightness testing?

12. Has there been any significant storage, usage or disposal of chemicals or other hazardous substances on the subject property? Have there been any spills, leaks or other hazardous materials incidents on the subject property or in the immediate area surrounding the subject property?

13. What types of properties or facilities have been located in the immediate area surrounding the subject property?

14. What is the general drainage pattern on the subject property? Is there any improved drainage installed? Are there any drywells or sumps located on the subject property?

15. Does the contact have any maps or drawings of the subject property? Does the contact have any permits or waivers for activities that may take place on the subject property?

16. Does contact know of any unusual features about the property, ie. unidentified pipes, depressions, stains etc?

17. Is the contact aware of any asbestos containing materials or prior asbestos abatement activities that may have taken place on the subject property?

18. Has there been any Radon testing accomplished on the subject property? Have Radon mitigation units ever been installed on the subject property?

19. Is the contact aware of any landfills or areas of heavy dumping close to the subject property?

20. Have there been any liens placed against the property for environmental or health and safety concerns?

APPENDIX F

BIBLIOGRAPHY

BIBLIOGRAPHY

- Aerial Photography, Arizona Department of Transportation, available photographs, 1959 - 1993
- Arizona CERCLA Information and Data System, Arizona Department of Environmental Quality, Office of Waste Programs, January 31, 1995
- Arizona Groundwater Quality Sampling Results in 1991 and 1992, Arizona Department of Environmental Quality, July, 1993
- Arizona Groundwater Quality Sampling Results in 1993 until June 30, 1994, Arizona Department of Environmental Quality, July, 1994
- Arizona Department of Water Resources, Well Registration List, May 1994
- Arizona Public Service, Clay Sargent, personal communication, May 16, 1995
- Chronic, Halka, Roadside Geology of Arizona, Mountain Press Publishing Company, 1983.
- Comprehensive Environmental Response, Compensation, and Liability Information System, EPA, March 20, 1995.
- Drywell Listing, Arizona Department of Environmental Quality, January 4, 1995
- Emergency Response Notification System (ERNS), EPA, January 2, 1995
- Leaking Underground Storage Tank List, Arizona Department of Environmental Quality, January 5, 1995
- Littin, C. R. Groundwater Conditions in the New River-Cave Creek Area-Maricopa, Yavapai County, Arizona. United States Geological Society Open File 79-1068 (Maps), 1977
- Maricopa County Department of Health, Marion Sams, personal communication, May 5, 1995
- National Priorities List, USEPA, March 20, 1995
- Reeter, R. W. and W. H. Remick, Maps Showing Groundwater Conditions in the West Salt River, East Salt River, Lake Pleasant, Carefree and Fountain Hills Sub-Basins of the Phoenix Active Management Area, Maricopa, Pinal and Yavapai Counties, Arizona--1983, Department of Water Resources Hydrologic Map Series Report Number 12, July, 1986.
- Resource Conservation Recovery Act Database, Environmental Protection Agency, November 29, 1994.
- Sellers, W. D. and R. H. Hill, eds., Arizona Climate, 1931-1974. University of Arizona Press, Tucson, Arizona, 1974
- Solid Waste Facilities List, Maricopa County, August 9, 1994

BIBLIOGRAPHY (cont.)

State Underground Storage Tank List, Arizona Department of Environmental Quality, January 5, 1995

Toxic Release Inventory, USEPA, no listing

USGS, New River 7.5 Minute Topographic Map, 1964

Waste Programs Division Remedial Projects (WQARF), Superfund Information Packet, June 1, 1994

APPENDIX G
SEPTIC TANK PERMITS

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT



2406 South 24th Street, Suite E-204
Phoenix, Arizona 85034
(602) 506-6616
(602) 506-6925 FAX

FACSIMILE TRANSMITTAL SHEET

USE BLACK OR BLUE INK ONLY

Date: 5/11/95

To: KIM CHAMBERS BERGSTEN

Office/Phone No: 248 8808

Fax No: 248 7722

Subject: Your request of 5/3/95 -

Organization: _____

From: Bob

Office/Phone No: 506 6666

Fax No: 506 6925

Division: _____

Could locate data on ^{MESSAGE} four (4) properties listed. Data follows.

Number of pages including cover sheet: 11

Please call _____ if incomplete or difficult to read.

Klein

74-2974

MICRO FILMED

MARICOPA COUNTY HEALTH DEPARTMENT
Environmental Services Division
P. O. Box 2111, Phoenix, Arizona 85001

PERMIT APPLICATION — INDIVIDUAL SEWAGE DISPOSAL SYSTEM

The undersigned hereby applies for permit to (install)(alter) sewage disposal facilities at:

Street Address 49801 N. 37 Avenue

Subdivision S² SW⁴ SW⁴ SE⁴ NE⁴ SE² 22 T7N R2E Lot No. _____

Name of Establishment _____

Name of Property Owner G. E. Patterson

For COMMERCIAL INSTALLATION

TEMPORARY

Type of business _____

A-124
①

Maximum number of users (patrons, employees, members, etc.) _____

Industrial wastes (if any) to _____ Treated? _____

For DOMESTIC INSTALLATION

TEMPORARY

Total number of Bedrooms 3

Family Room

Yes

No

Den

Other _____

Garbage Grinder

Size of septic tank to be installed (liquid capacity below overflow line) 1000 gallons

Type of material tank is constructed of Precast Conc. - May 13.4m. Bul

Proposed method of effluent disposal: Silted walls
Inside Dim. - 9' L x 3' W x 5' Liquid Depth - 8" Thick

Leach lines: number _____, total length _____, width _____

Leach beds: number 1, size: length 30 ft., width 15 ft. 4 50P

Seepage pit: number _____, diameter _____, effective depth _____, lined _____

Other Based on site log. on lot Adjoining this to the north - #74-1490

150

I, the undersigned, do hereby agree to assume complete responsibility to insure that these installations will be made in full compliance with all regulations of the Maricopa County Health Department and the Arizona State Department of Health which are applicable at the time of the installations. I also understand that failure to comply with said regulations is subject to fine or imprisonment or both.

Date October 28 1976

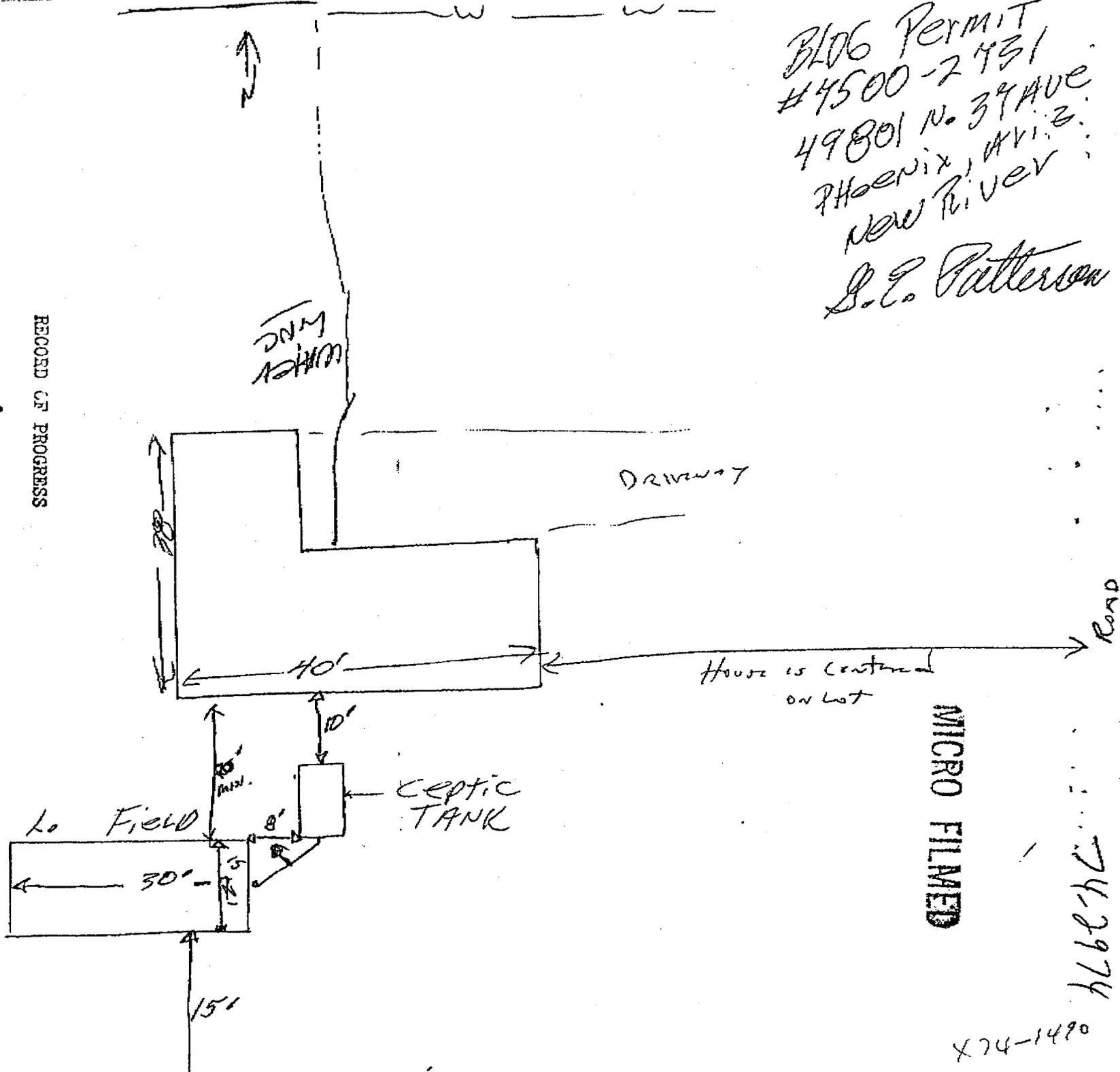
G. E. Patterson Box 134 D Blk. Can. Stg Phx Ariz 465-7776
Applicant's Signature Mailing Address Telephone Number

Permit Number 74-2974 Date Issued 10-29-76 By [Signature]

Lot Size
1/4 Acre

Recorded to 20.76 by ML Code # PL-1438-72
P.M.E.: ML Date 10/29/72
P.H.S.: OK By M.K. Date 1/23/77
Filed: _____ By _____ Date _____

RECORD OF PROGRESS



BLOG PERMIT
#4500-2431
49801 N. 39 AVE.
PHOENIX, ARIZ.
New River
S.E. Patterson

MICRO FILMED

74-2974

X74-1420

Klew.

74-5405

MICRO FILMED

MARICOPA COUNTY HEALTH DEPARTMENT
Environmental Services Division
P. O. Box 2111, Phoenix, Arizona 85001

PERMIT APPLICATION -- INDIVIDUAL SEWAGE DISPOSAL SYSTEM

The undersigned hereby applies for permit to (install)(alter) sewage disposal facilities at:

Street Address 49820 N. 36 Avenue, New River

Subdivision SE 1/4 SW 1/4 SE 1/4 NE 1/4 SEC. 22 T7N R2E Lot No. _____

Name of Establishment _____

Name of Property Owner G. E. Patterson

For COMMERCIAL INSTALLATION TEMPORARY

Type of business _____ A-124

Maximum number of users (patrons, employees, members, etc.) _____ 1

Industrial wastes (if any) to _____ Treated? _____

For DOMESTIC INSTALLATION TEMPORARY

Total number of Bedrooms 3

Family Room Yes No

Den Yes No

Other washer Yes No

Garbage Grinder Yes No

Size of septic tank to be installed (liquid capacity below overflow line) 1000 gallons

Type of material tank is constructed of precast Concrete

Proposed method of effluent disposal:

Leach lines: number _____, total length _____, width _____

Leach beds: number 1, size: length 30' ft., width 15' ft. 450'

Seepage pit: number _____, diameter _____, effective depth _____, lined _____

Other IN FLOOD PLANE - Applicant must contact Maricopa County Flood Control Dist. Site Insp. Rep'd.

I, the undersigned, do hereby agree to assume complete responsibility to insure that these installations will be made in full compliance with all regulations of the Maricopa County Health Department and the Arizona State Department of Health which are applicable at the time of the installations. I also understand that failure to comply with said regulations is subject to fine or imprisonment or both.

Date Nov. 10, 1977

* G. E. Patterson
Applicant's Signature

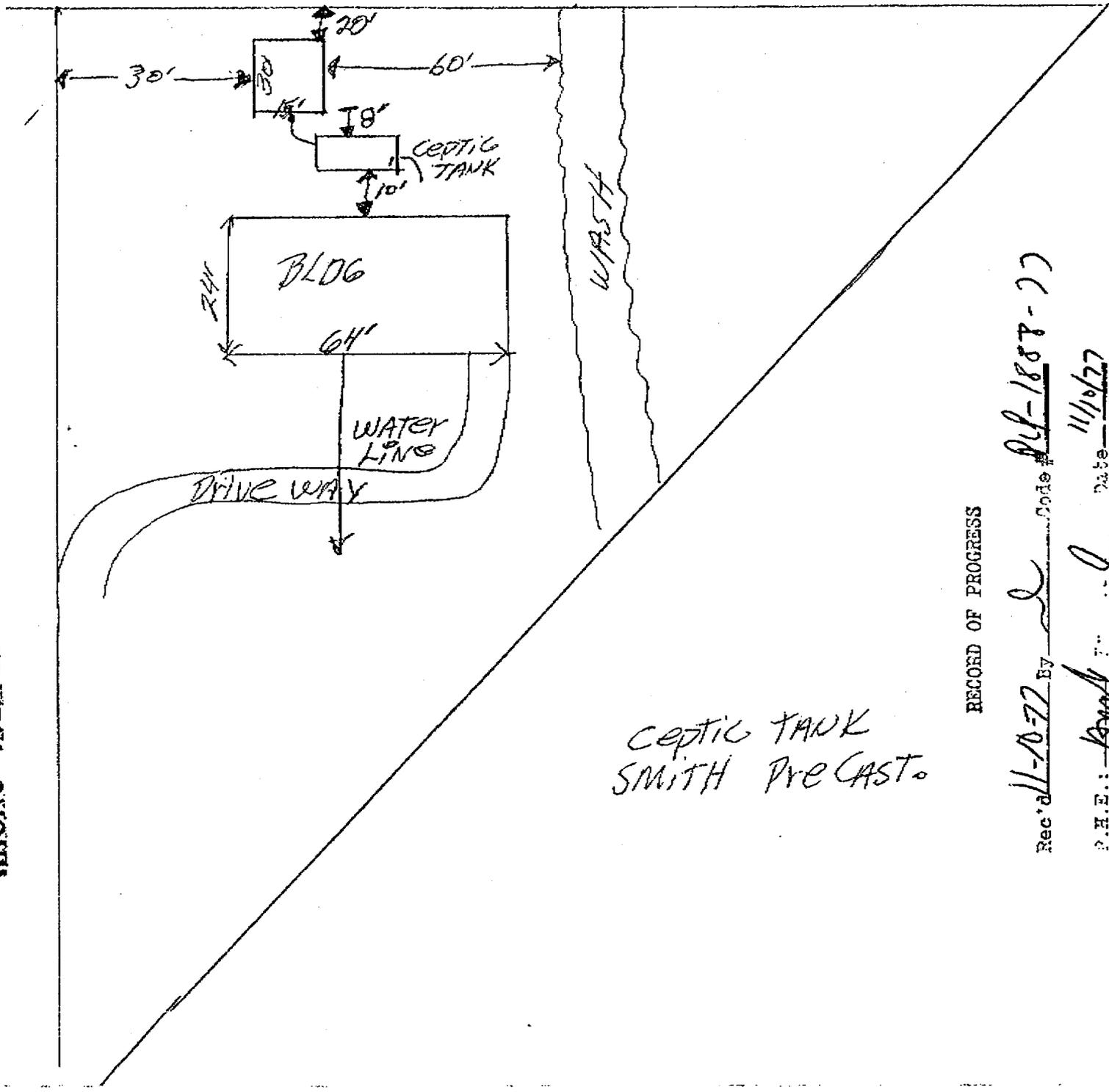
1897 BLK. CAN. STG. FAX 465-9654
Mailing Address Telephone Number

Permit Number 74-5405 Date Issued 11-10-77 By [Signature]

201 = 1/4 A.

504572

MICRO FILMED



CEPTIC TANK
SMITH PRECAST.

BLOG PERMIT
 # 44017253
 49820 N. 36 AVE
 PHOENIX, ARIZ
 (New River)
 G. E. Patterson

RECORD OF PROGRESS

Rec'd 11-10-77 By [Signature] Code # 94-1888-77

P.H.E.: [Signature] Date 11/10/77

P.S.S.: [Signature] Date 4-19-78

Filed: _____ Py _____ Date _____

Don't

18-1697

MICRO FILMED

MARICOPA COUNTY HEALTH DEPARTMENT
Environmental Services Division
P. O. Box 2111, Phoenix, Arizona 85001

PERMIT APPLICATION -- INDIVIDUAL SEWAGE DISPOSAL SYSTEM

The undersigned hereby applies for permit to (install)(alter) sewage disposal facilities at:

Street Address 49812 N. 36 AVE.

Subdivision N. 990', W. 635', SE4 NE4, Sec 22, T7N, R2E Plot No. _____

Name of Establishment _____

Name of Property Owner JASPER COMBS

For COMMERCIAL INSTALLATION TEMPORARY

Type of business _____

Maximum number of users (patrons, employees, members, etc.) _____

Industrial wastes (if any) to _____ Treated? _____

For DOMESTIC INSTALLATION TEMPORARY

Total number of Bedrooms 3

2 STORY
NO BASEMENT

	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Family Room	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Den SEWING Room	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Other AUTO WASHER	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Garbage Grinder	<input checked="" type="checkbox"/>		<input type="checkbox"/>	

(5)
1250 MINIMUM

Size of septic tank to be installed (liquid capacity below overflow line) 1500 gallons

Type of material tank is constructed of BUILD OWN - 8' Thick Walls
INSIDE DIM. - 10' L X 4' W X 5 1/2' LIQUID DEPTH

Proposed method of effluent disposal: 1250 - 9 L X 4' W X 5' " "

Leach lines: number _____, total length _____, width _____

* Leach beds: number 1, size: length 49 1/2' ft., width 20 ft. 990 P
42' 20' 825 P

Seepage pit: number _____, diameter _____, effective depth _____, lined _____

Other _____

I, the undersigned, do hereby agree to assume complete responsibility to insure that these installations will be made in full compliance with all regulations of the Maricopa County Health Department and the Arizona State Department of Health which are applicable at the time of the installations. I also understand that failure to comply with said regulations is subject to fine or imprisonment or both.

Date 8-8-78

* Jasper Combs Applicant's Signature Box 183-T BIK Canyon Stage Ph Mailing Address 465 7494 Telephone Number

Permit Number 18-1699 Date Issued 8-8-78 By [Signature]

79-1099

MICRO FILMED

1" = 100'

36th Ave

990

845±'

NO. 77-3749
 ZONING
 CLEARANCE
 APPROVED [Signature]
 DATE 4-22-77
 MARICOPA COUNTY
 PLANNING DEPARTMENT.

S.C.

RECORD ON PROGRESS

Req. # 88-27 BY [Signature] Code # 10218098

P.H.F. # 1004 Date 8/8/78

P.H.S. # 1990 Date 4-23-79

Filed : _____ By _____ Date _____

445'

WASH TO BE DIVERTED 120' WELL TO TRUCK

154'

10'

635'

FLOODPLAIN CLEARANCE
REQUIRED

LEVEL - GRADUAL SLOPE

MARICOPA COUNTY DEPARTMENT OF HEALTH SERVICES
Environmental Services Division
P. O. Box 2111, Phoenix, Arizona 85001

85-1011

PERMIT APPLICATION - INDIVIDUAL SEWAGE DISPOSAL SYSTEM

The undersigned hereby applies for permit to (install)(alter) sewage disposal facilities at:

Street Address 3525 W. Phet View Rd. E.C. W154 N30'

Subdivision PT. W. 232' E. 492.92' N. 338.39' Lot 1 (NE1/4) Lot No. SEC 22 T2N R2E

Name of Establishment _____ A 07022201

Name of Property Owner LARRY G. LAMBERTUS

For COMMERCIAL INSTALLATION TEMPORARY 20-85-4410
85-018637

Type of business _____ 202-6-PT. 16A

Maximum number of users (patrons, employees, members, etc.) _____ A-124

Industrial wastes (if any) to _____ Treated? (P)

For DOMESTIC INSTALLATION TEMPORARY

Total number of Bedrooms 3

*APPLICANT ASSUMES RESPONSIBILITY FOR DESIGN AND, IF WARRANTED BY SITE CONDITIONS, UNDERSTANDS THAT ADDITIONAL DESIGN AND CONSTRUCTION MAY BE REQUIRED BEFORE APPROVAL.

Family Room	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Den	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Other <u>Auto Wash</u>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Garbage Grinder	<input type="checkbox"/>		<input checked="" type="checkbox"/>	

Size of septic tank to be installed (liquid capacity below overflow line) 900 gallons

Type of material tank is constructed of Precast Concrete

Proposed method of effluent disposal:

Leach lines: number _____, total length _____, width _____
Leach beds: number _____, size: length _____ ft., width _____ ft.
Seepage pit: number _____, diameter _____, effective depth _____, lined _____
Other _____

Entire System in - Ground at Time This Permit Applied for

I, the undersigned, do hereby agree to assume complete responsibility to insure that these installations will be made in full compliance with all regulations of the Maricopa County Health Department and the Arizona State Department of Health which are applicable at the time of the installations. I also understand that failure to comply with said regulations is subject to fine or imprisonment or both.

Applicant's Signature Larry G. Lambertus Date 6/25/85
Mailing Address 2774 New River Stage Phx AZ 85027 465-947 Telephone Number #1

Permit Number 85-1011 Date Issued 6/25/85 By [Signature]

APPROVED 1986
APR 07 1986

GRICOPA COUNTY DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL SERVICES
BUREAU OF ENGINEERING

ENGINEER Hank DATE 6/27/85

TYPE OF INSPECTION

ENGINEERING REPORT

REQUESTED BY: JH SEND TO: JH

NAME AND LOCATION
OF PREMISES
BEING INSPECTED

3525 W. Photo View Rd. A-124
pt. W. 232' E. 492.92' N. 338.38' (1 (NE/NEE) SEC. 22 T7N R2E

REMARKS:

System was in a covered at time of permit application. System to be uncovered - inspection called for. At time of inspection look at any dirt piles to determine soil conditions. No size was put on the pits because of the unknown soils.

2/22/88 File as unapproved HFC

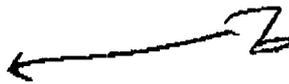
ACTION:

RECORD OF PROGRESS

Rec'd 67585 by J Code# 97185
 System to Be Uncovered
 P.H.S.: San Insp.
 P.H.S.: _____

PIP -
 276130
 14-00

Filed: _____ By _____ Date _____



THIS IS A TRUE
 COPY AS KEPT AT

OWN

109

30'

976

338.33

981

911



320180

SECURED
 TELEPHONE
 CORD CIPHER

REPUBLIC
 RELIABLE
 BY CIPHER

REPUBLIC
 RELIABLE
 BY CIPHER

386

STATE OF _____)
COUNTY OF _____) ss.
Witness my hand and Official Seal
Indexed Paged Blotted

I hereby certify that the within instrument was
filed for record in _____ County,
State of _____

No. **85 171206**
Book _____ Page _____

Date: _____

County Recorder

TIGOR TITLE INSURANCE COMPANY OF CALIFORNIA

By _____ Deputy _____ Fee _____

When recorded, mail to: Larry G. Lambertus, Sr., Box 4216 New River Stage II, Phoenix, AZ 85029

C16 5037-117

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS:

That I(we) William E. Lambertus and Rachel A. Lambertus, his wife
the undersigned grantor(s), for the consideration of Ten Dollars, and other valuable considerations, do hereby convey to
Larry G. Lambertus, Sr. and Debra S. Lambertus, his wife,

all right, title and interest to and in that certain parcel of Real Property situated in Maricopa County,
State of Arizona and described as follows:

THAT PORTION OF THE NORTHEAST QUARTER OF LOT 1, SECTION 22, TOWNSHIP 7 NORTH,
RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY,
ARIZONA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID LOT 1; THENCE SOUTH 89 DEGREES 17
MINUTES 03 SECONDS WEST A DISTANCE OF 260.92 FEET ALONG THE NORTHERLY LINE OF
SAID LOT 1 TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 1 DEGREE 19 MINUTES 18
SECONDS EAST A DISTANCE OF 338.33 FEET TO A POINT ON THE NORTHEASTERLY LINE OF
THAT CERTAIN PARCEL OF LAND DESCRIBED IN INSTRUMENT RECORDED AT DOCKET 13712,
PAGE 224; THENCE NORTH 71 DEGREES 25 MINUTES 27 SECONDS WEST ALONG SAID
NORTHEASTERLY LINE AND ITS NORTHWESTERLY PROLONGATION, A DISTANCE OF 116.00
FEET; THENCE SOUTH 89 DEGREES 17 MINUTES 03 SECONDS WEST ALONG THE NORTH LINE
AND ITS EASTERLY PROLONGATION OF THAT CERTAIN PARCEL OF LAND DESCRIBED IN
INSTRUMENT RECORDED AT DOCKET 10432, PAGE 357, A DISTANCE OF 116 FEET; THENCE
NORTH 19 DEGREES 53 MINUTES 46 SECONDS EAST, A DISTANCE OF 320.50 FEET TO THE

EX-1011
UNDER REC. 42-1014 83

APPENDIX H
ADWR WELL ABANDONMENT PROCEDURES

NO FEE REQUIRED

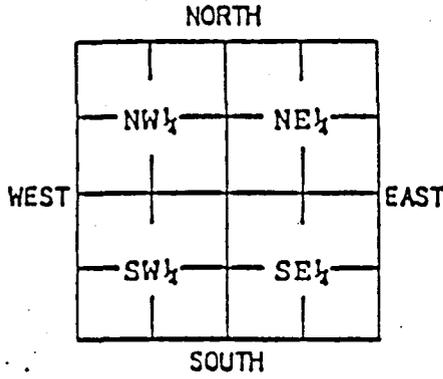
DEPARTMENT OF WATER RESOURCES (DWR)

NO FEE REQUIRED

15 South 15th Avenue
Phoenix, Arizona 85007

NOTICE OF INTENT TO ABANDON A WELL

A.R.S. §45-594, R12-15-816: Well abandonment shall be performed only by a licensed well drilling contractor or single well licensee. The owner of a well shall file a Notice of Intent to Abandon the well prior to abandonment.



INDICATE WELL LOCATION BY X
(Above diagram represents one
640 acre section)

6. County Assessor's ID:

Book _____ Map _____ Parcel _____

DESCRIPTION OF WELL TO BE ABANDONED:

7. Abandonment will begin: Month _____ Year _____ 8. Well Diameter _____ inches 9. Well Depth _____ feet

10. Type of Casing _____

11. Materials and methods to be used to abandon the well: _____

12. Reason for abandonment: _____

13. To your knowledge, is there any information that exists which indicates that the water in this well may be or is contaminated? Yes _____ No _____. If yes, explain on an attached sheet.

14. Licensed Driller performing abandonment: Firm Name _____ License No. _____
Address _____ City _____ State _____ Zip _____

1. Well Location:
Township _____ Range _____ Section _____
10 Acre $\frac{1}{4}$ 40 Acre $\frac{1}{4}$ 160 Acre $\frac{1}{4}$

2. Position location of the well
on the land:
Latitude _____ " _____ "
Longitude _____ " _____ "

3. Well Registration Number:
55- _____

4. Well Owner:
Name _____
Mailing Address _____
City _____ State _____ Zip _____
Telephone _____

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
File No. _____
Filed _____ By _____
Input _____ By _____
DUPLICATE
Mailed _____ By _____
Registration _____

5. Owner of the land:
Name _____
Address _____
City _____ State _____ Zip _____

GENERAL INSTRUCTIONS

1. This form is to be used to obtain authority to abandon a well.
2. If this well has just been discovered pursuant to A.R.S. §45-593.D., and has not been registered, this form will serve to register the well when properly abandoned and reported.
3. Fill out this form in DUPLICATE and send to 15 South 15th Avenue, Phoenix, AZ 85007.
4. Construction standards for abandonment shall be in accordance with Department Rules and Regulations.

I state that this Notice is filed in compliance with A.R.S. §45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

Date: _____ Signature of Well Owner: _____

ARIZONA DEPARTMENT OF WATER RESOURCES
15 South 15th Avenue
Phoenix, Arizona 85007

NOTICE OF WELL CAPPING

Arizona Revised Statute § 45-594 and A.A.C R12-15-822: The owner of an open well shall file a notice of well capping with the Department in writing no later than five days after the well capping.

1. LEGAL DESCRIPTION OF THE LOCATION OF WELL:

1. Township _____ N/S
2. Range _____ E/W
3. Section _____
_____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$

2. WELL REGISTRATION NUMBER:

File No. _____

OWNER OF THE WELL:

Name

Address

City State Zip

Telephone No.

4. PERSON INSTALLING THE CAP:

Name

Address

City State Zip

5. DATE WELL WAS CAPPED:

6. METHOD OF CAPPING:

7. TYPE AND DIAMETER OF CASING:

Type of well casing: _____

Diameter of well casing _____

8. COMMENTS:

I state that this Notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-822, and is complete and correct to the best of my knowledge and belief.

Date _____

SIGNATURE: _____
Well Owner

ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue
Phoenix, Arizona 85007

WELL ABANDONMENT COMPLETION REPORT

A.R.S. §45-594; R12-15-816: Within 30 days after a well is abandoned, the well drilling contractor shall file a well Abandonment Completion Report on a form prescribed and furnished by the Director.

1. Well Registration No. 55-_____

2. Well Location: _____ N/S _____ E/W _____
Township Range Section 10 Acre 1/4 40 Acre 1/4 160 Acre 1/4

3. Owner of the Land:
Name: _____

Address _____ City _____ State _____ Zip _____

4. Well Description: _____
Hole Depth Diameter Type of Casing

5. Reason for abandonment: _____

6. Prior to abandonment, did the well have 20' of steel surface casing AND 20' of grout in the annular space surrounding the surface casing? Yes _____ No _____

7. If the answer to No. 6 is no, was the top 20' of casing removed prior to setting the cement plug? Yes _____ No _____

8. Identify the materials and methods used to abandon the well: _____

9. Is this Abandonment Completion Report filed in accordance with R12-15-816,F.?: Yes _____ No _____

10. How deep does the cement plug extend below land surface? _____

11. Was the well backfilled above the cement plug? Yes _____ No _____

12. Date abandonment completed: _____

13. Drilling firm:
Name: _____

Address _____ City _____ State _____ Zip _____

DATE: _____ SIGNATURE OF WELL DRILLER _____

ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue
Phoenix, Arizona 85007

REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING

PRINT OR TYPE - FILE IN DUPLICATE

REGISTRATION FEE (check one)
EXEMPT WELL (No registration fee)
LATE FEE - \$10.00
NON-EXEMPT WELL - \$10.00
LATE FEE - 10.00
\$20.00

For Office Use Only
REGISTRATION NO. 55-
FILE NO.
FILED at
(Date) (Time)
INA
AMA

1. Name of Well Owner:

Address City State Zip

2. File and/or Control Number under previous groundwater law: 35-
File No. Control No.

3. a. The well is located within the 1/4 1/4 1/4, Section
of Township N/S, Range E/W, G&SRB&M, in the County of
b. If in a subdivision: Name of subdivision
Lot No. Address

4. The principal use(s) of water: (Examples: irrigation, stockwater, domestic, municipal, industrial):

5. If for irrigation use, number of acres irrigated from well

6. Owner of land on which well is located. If same as Item 1, check this box

Name Address City State Zip

7. Well data (If data not available, write N/A)

a. Depth of Well feet
b. Diameter of casing inches
c. Depth of casing feet
d. Type of casing
e. Maximum pump capacity gallons per minute.
f. Depth to water feet below land surface.
g. Date well completed
(Month) (Day) (Year)

8. The place(s) of use of water. If same as Item 3, check this box
1/4 1/4 1/4, Section Township Range

DATE: SIGNATURE OF WELL OWNER:

ARIZONA DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007

CHANGE OF WELL INFORMATION

Well Registration No. 55- _____ File No. _____
(location)

I/We request the following well information be changed: _____

Date: _____ Signature of Current Well Owner _____

(DO NOT CUT THIS FORM IN HALF)

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new)
(please print)
owner of the well described below:

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$; Section _____ Township _____ Range _____
10 acre 40 acre 160 acre

Well Registration No. 55- _____ File No. _____
(location)

PRINT Previous Owner's Name

PRINT New Owner's Name

Address

Address

_____|_____|_____
City State Zip

_____|_____|_____
City State Zip

Dated: _____ Signature of New Owner _____

NOTE: A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

ATTACHMENT VI

ADWR Rules R12-15-822 and R12-15-816



1 Health Services Environmental Quality.

2
3 R12-15-820. Request for variance

4 A. If extraordinary or unusual conditions occur during the
5 drilling of a well exist at a specific well site, a well driller
6 drilling contractor or owner may request a variance from the
7 minimum construction standards provisions of this Article.

8 B. The request for variance shall be in writing and shall set
9 forth the location of the well site, the reasons for the request,
10 and the recommended standards requirements to be applied. The
11 Director may approve the request only if the well driller drilling
12 contractor or owner has clearly demonstrated that the variance will
13 not adversely affect other water users or the local aquifers.

14 C. A variance shall not be effective until the well drilling
15 contractor or owner receives from the Director a written approval
16 of the variance and a new drilling card stamped "variance issued."

17
18 R12-15-821. Special standards requirements

19 If the Director determines that the literal application of the
20 minimum well construction standards requirements contained in this
21 Article would not adequately protect the aquifer or other water
22 users, the Director may require that further additional measures be
23 taken, such as increasing the length of the surface seal or the
24 minimum distance from a septic system increasing the well's minimum
25 distance from a potential source of contamination.

26
27 R12-15-822. Capping of open wells

28 A. The owner of an open well shall either install a cap on

1 the well or abandon the well in accordance with R12-15-816. Withi
2 five days after capping the well, the owner of the well shall file
3 with the department a notice of well capping on a form approved by
4 the Director, which shall include the following information:

5 1. The name and address of the well owner.

6 2. The name and address of the person installing the cap.

7 3. The well registration number.

8 4. The legal description of the location of the well.

9 5. The date the well was capped.

10 6. The method of capping.

11 7. The type and diameter of casing.

12 B. If no casing exists in an open well, or if the integrity
13 of the existing casing is insufficient to allow installation of a
14 cap, the well owner shall install a surface seal in accordance wit
15 R12-15-811.B prior to capping.

16 C. The owner of a well on which a cap is installed shall mak
17 the cap tamper-resistant by welding the cap to the top of the
18 casing by the electric arc method of welding, except that the owne
19 of a well may make the cap tamper-resistant by securing the cap to
20 the top of the casing with a lock during temporary periods of well
21 maintenance, modification or repair, not to exceed 30 days, or at
22 any time if the well is a monitor well or piezometer well.

1 Health Services in May, 1978, both of which are incorporated herein
2 by reference and are on file with the Office of the Secretary of
3 State. Copies of the Engineering Bulletins referred to above may
4 be obtained with these rules at the Office of the Secretary of
5 State of the State of Arizona, State Capitol, West Wing, Phoenix,
6 Arizona 85007, and from the Department of Water Resources,
7 Operations Division, 15 South 15th Avenue, Phoenix, Arizona
8 85007. This Rule does not include any later amendments or editions
9 of those Bulletins.

10
11 **R12-15-815. Removal of drill rig from well site**

12 -A- The drilling rig shall not be removed from the well site
13 for more than two consecutive weeks unless the well is in one of
14 the following conditions:

15 1. Constructed in full conformance with these minimum con-
16 struction standards R12-15-811 and R12-15-812, and either sealed
17 with a water-tight cap or equipped with a pump.

18 2. No change

19 B- If the drilling rig is removed from the well site for less
20 than two consecutive weeks, the well shall be equipped with a
21 water-tight cap.

22
23 **R12-15-816. Abandonment**

24 A. Well abandonment shall be performed only by a licensed
25 well drilling contractor or single well licensee.

26 B. Except as provided in Subsection F of this section, the
27 owner of a well shall file a notice of intent to abandon the well
28 prior to abandonment, on a form prescribed and furnished by the

1 Director, which shall include:

2 1. The name and mailing address of the person filing the
3 notice.

4 2. The legal description of the land upon which the well
5 proposed to be abandoned is located and the name and mailing
6 address of the owner of the land.

7 3. The legal description of the location of the well on the
8 land.

9 4. The depth, diameter and type of casing of the well.

10 5. The well registration number.

11 6. The materials and methods to be used to abandon the well.

12 7. When abandonment is to begin.

13 8. The name and well drilling license number of the well
14 drilling contractor or single well licensee who is to abandon the
15 well.

16 9. The reason for the abandonment.

17 10. Such other information as the Director may require.

18 C. The Director shall, upon receipt of a proper notice of
19 intent to abandon, mail a well abandonment authorization card to
20 the designated well drilling contractor or single well licensee.

21 D. Except as described in Subsection F of this section, a
22 well drilling contractor or single well licensee may commence
23 abandoning a well only if the driller has possession of an
24 abandonment card at the well site, issued by the Director in the
25 name of the driller, authorizing the abandonment of that specific
26 well or wells in that specific location.

27 E. Within 30 days after a well is abandoned pursuant to this
28 section, the well drilling contractor or single well licensee shall

1 file with the Director a Well Abandonment Completion Report on a
2 form prescribed and furnished by the Director which shall include
3 the date the abandonment of the well was completed and such other
4 information as the Director may require.

5 F. In the course of drilling a new well, the well may be
6 abandoned without first filing a notice of intent to abandon and
7 without an abandonment card. If the well is abandoned pursuant to
8 this subsection without first filing a notice of intent to abandon
9 and without an abandonment card, the well drilling contractor or
10 single well licensee shall provide the following information in the
11 Well Abandonment Completion Report:

12 1. The legal description of the land upon which the well was
13 abandoned and the name and mailing address of the owner of the
14 land.

15 2. The legal description of the location of the well on the
16 land.

17 3. The depth, diameter and type of casing of the well prior
18 to abandonment.

19 4. The well registration number.

20 5. The materials and methods used to abandon the well.

21 6. The name and well drilling license number of the well
22 drilling contractor or single well licensee who abandoned the well.

23 7. The date of completion of the abandonment of the well.

24 8. The reason for the abandonment.

25 9. Such other information as the Director may require.

26 A G. No change

27 B H. No change

28 e I. In addition to the surface seal required in Subsection

1 B-H:

2 1. A well penetrating a single aquifer system with no verti-
3 cal flow components shall be filled with cement grout, concrete,
4 bentonite drilling muds, clean sand with bentonite, or backfilled
5 with cuttings from the well.

6 2. No change

7 B J. No change

8 E K. The owner or operator of the well shall notify the
9 Department Director in writing no later than ~~thirty~~ 30 days after
10 abandonment has been completed. The notification shall include the
11 well owner's name, the location of the well, and the method of
12 abandonment.

13

14 R12-15-817. Exploration wells

15 A. Notification.

16 ~~±~~ Prior to drilling one or more exploration wells, the well
17 owner, lessee, or exploration firm shall file a notice of intention
18 to drill on forms provided by the Department Director. If the
19 notice of intention to drill may be is filed for the project as a
20 whole, ~~in which case~~ the drilling card shall be issued on a ~~similar~~
21 basis for the project as a whole.

22 B. Construction and abandonment.

23 1. If an exploration well which is to be left open for re-
24 entry at a later date encounters groundwater, it shall be cased and
25 capped in accordance with R12-15-811, and R12-15-812 and R12-15-
26 822. The minimal length of surface seal shall be either twenty 20
27 feet, or five feet into the first encountered consolidated
28 formation, whichever is less. If no groundwater is encountered,

APPENDIX I

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS PARTICIPATING IN PHASE I ENVIRONMENTAL SITE ASSESSMENT

KIM CHAMBERS BERGSTEN
Environmental Scientist

PROFESSIONAL SUMMARY

Ms. Bergsten is an Environmental Scientist for GROWTH's Phoenix District. She performs Phase I and II environmental site assessments (ESAs) for real estate transactions involving major institutions, developers, municipalities, and county agencies. Ms. Bergsten has conducted and supervised soil sampling programs to assess the vertical extent of contamination including petroleum hydrocarbons and pesticide contamination. She has provided on-site oversight for removal of underground storage tanks (USTs). She has expertise as an on-site field biologist for identification of endangered plant and animal species, and is an AHERA-certified building inspector and management planner.

PROFESSIONAL EXPERIENCE:

- Ms. Bergsten has 5 years of involvement in performing Phase I and Phase II ESAs of commercial and industrial properties. She has prepared more than 100 Phase I ESAs at properties ranging from apartment complexes to resort hotels and golf courses, from small commercial/industrial facilities to airport support and maintenance operations, and from abandoned facilities to undeveloped parcels of more than 3,000 acres.
- Ms. Bergsten has performed monitoring of drywell closures, soil excavation and remediation projects. She has conducted environmental auditing and regulatory compliance consulting, providing specialized guidance in the areas of pesticide storage and disposal, UST compliance, and air quality. She has conducted compliance audits ranging from golf courses to equipment maintenance facilities.
- She has served as a day-to-day contact in representing the interests of clients including municipalities, county agencies, attorneys, and real estate developers.
- She has reviewed and evaluated more than 150 Phase I ESAs of real estate assets and collateral for Resolution Trust Corporation/Lincoln Savings and Loan and its subsidiaries. Ms. Bergsten reviewed and classified properties for special resources issues, developed scope of work and reviewed Phase II ESAs.
- Ms. Bergsten previously served as the environmental planner for a planned 1,030 mile long crude oil pipeline. She monitored changes in environmental statutes affecting permit acquisition and renewal, including NPDES and 404 permits. She developed the time line for the four state area construction project with restrictions on development in threatened and endangered species habitat areas and planned a mandated reseeding program in sensitive habitat areas. Ms. Bergsten prepared the draft of the oil spill contingency documents and proper notification procedures.

EDUCATION:

Graduate Work, M.A. Geography (15 hours currently), emphasis in migration, and research methods
B.S. Geography, Cum Laude, 1989 Arizona State University
Certificate in Interdisciplinary City and Regional Planning, 1989
Wildlife Management (54 hours), emphasis on fisheries management

KIM CHAMBERS BERGSTEN (Cont.)

CERTIFICATIONS:

Certified Environmental Inspector, Environmental Assessment Association, Membership #8950
AHERA Certified Building Inspector
AHERA Certified Management Planner
40 Hour OSHA Hazardous Waste Operations (29 CFR 1910.120)

PROFESSIONAL AFFILIATIONS:

Environmental Assessment Association

DENNIS C. KNUDSEN
Manager-Business Development
Senior Civil Engineer

PROFESSIONAL SUMMARY

Mr. Knudsen is a registered professional engineer and serves as Manager - Business Development for GROWTH's Phoenix District. He has 22 years of civil and environmental engineering experience. He is responsible for technical and administrative oversight for all civil engineering design and for various projects and clients requiring environmental expertise. He heads the underground storage tank (UST) program for Growth's AT&T client in the southwest. He provides QA/QC services for the office as well as client relations, regulatory agency interfacing and business development.

PROFESSIONAL EXPERIENCE:

- Over 22 years of engineering experience in environmental engineering, site development, water distribution, sewage collection and treatment, storm water handling, hydrology, flood control, and street design.
- Responsible for UST management for AT&T Southwest Region relative to tank upgrading, site closures, contamination assessment and remediation, regulatory agency coordination and report preparation.
- Responsible for preparation of Phase I and Phase II environmental site assessment investigations and reports for the Resolution Trust Corporation (RTC) and various other clients.
- Responsible for preliminary and comprehensive asbestos surveys for the RTC.
- Conducted flood insurance studies under the National Flood Insurance program using the Corps of Engineers Hec-II computer program.
- Conducted drainage studies using computer modeling methods as well as manual methods to assist with subdivision design for parcels ranging from 0.5 to 36 square miles in size.
- Other design projects include street improvements, street lighting, storm drainage, water and sewer systems, landscaping, utility coordination, earthwork, and construction administration and inspection for various public and private clients in Arizona, Nevada, New Mexico, California and Oregon.
- Responsible for all phases of design for a 57 acre premier Paradise Valley subdivision including coordination for grading, drainage design, construction staking, earthwork quantity calculations, roads, water systems, inspection, and client representation.
- Responsible for site design of numerous projects for office, retail, and multi-family uses.

EDUCATION:

B.S.C.E., 1976, University of Idaho

DENNIS C. KNUDSEN (Cont.)

ADDITIONAL EDUCATIONAL EXPERIENCES:

Microwave and Tropospheric Scatter Communications Course - U.S. Army Signal School
Instructor Methods Course - U.S. Army Signal School
OSHA 40-Hour Hazardous Materials Training
Design and Construction of Soil Liners and Covers - American Society of Civil Engineers
Handling of Hazardous Materials - Chemical Waste Management, Inc.
Design, Operation, and Closure of Municipal Solid Waste Landfills - U.S. EPA

MILITARY RECOGNITION AND LEADERSHIP:

U.S. Army, Specialist 5th Class, 1968 - 1971
Army Commendation Medal, Viet Nam, 1970
U.S. Army, NCOIC, 15 Man Microwave Multiplex Team, Viet Nam, 1969 - 1970
U.S. Army, Communications Electronics Instructor, Fort Monmouth, New Jersey, 1970 - 1971
Honorable Discharge, 1971

CERTIFICATIONS:

Registered Professional Civil Engineer:
Arizona, 1985, No. 18156
New Mexico, 1990, No. 11081
Nevada, 1990, No. 8814

PROFESSIONAL AFFILIATIONS:

American Society of Civil Engineers
American Public Works Administration
Home Builders Association of Central Arizona
Valley Partnership
Arizona Chamber of Commerce
Arizona Management Society

APPENDIX J
SITE PHOTOGRAPHS



Photograph #1

View of Parcel 100 looking west from eastern property boundary. Note empty drum.
Drum is labeled 1,1-trichloroethane.



Photograph #2

View of headstone on Parcel 100.



Photograph #3

View of steel manhole cover lid near western boundary of Parcel 100.



Photograph #4

View of burn barrel on Parcel 101.



Photograph #5

View of mobile homes and 55-gallon drums on Parcel 101. View is looking south.



Photograph #6

View of residence on Parcel 103. View is looking in a northerly direction.



Photograph #7
View of oily stained soil on Parcel 103.



Photograph #8
View of rock corral on Parcel 105. View is looking to the northwest.



Photograph # 9
View of abandoned structure on Parcel 105.



Photograph #10
View of steel tank on Parcel 105.



Photograph #11

View of discarded material in corral on Parcel 106. View is looking east .



Photograph #12

View of discharge pipe from washing machine on Parcel 106.



Photograph #13

View of construction materials on Parcel 106. View is looking east.



Photograph #14

View of wood storage area, empty drums and landscaping material on Parcel 107.
View is looking north.



Photograph #15

View of discharge pipe form residence on Parcel 108. View is looking east.



Photograph #16

Looking south from Parcel 109 towards Parcel 108.



Photograph #17

View of small concrete pad and cut-off pipe on Parcel 109.



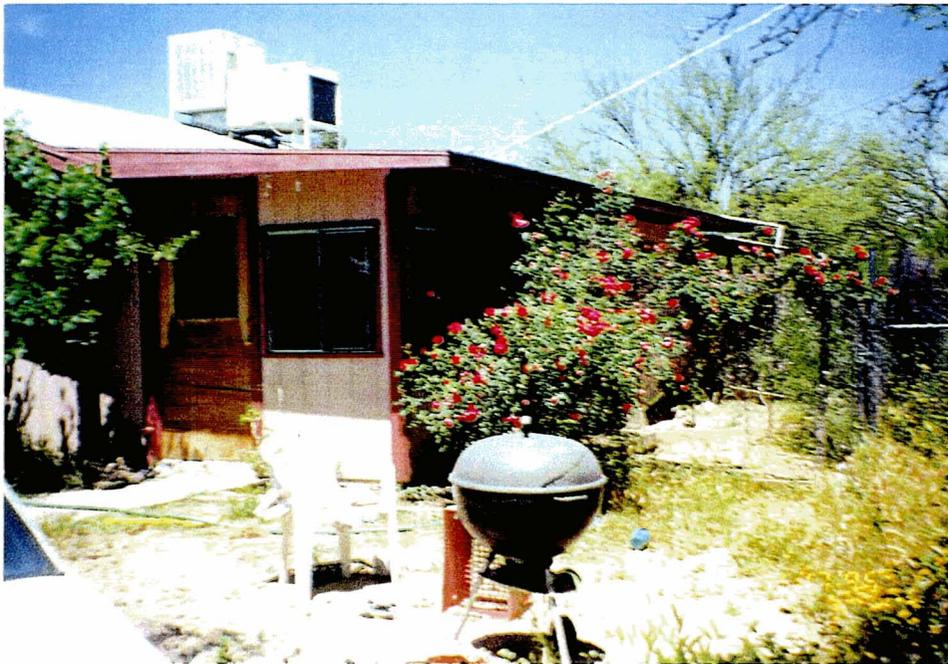
Photograph #8

View of 55-gallon drum containing dirt on Parcel 109.



Photograph # 19

View of oily stained soil on Parcel 109. Edge of trash can is visible.



Photograph #20

View of residence on Parcel 109.



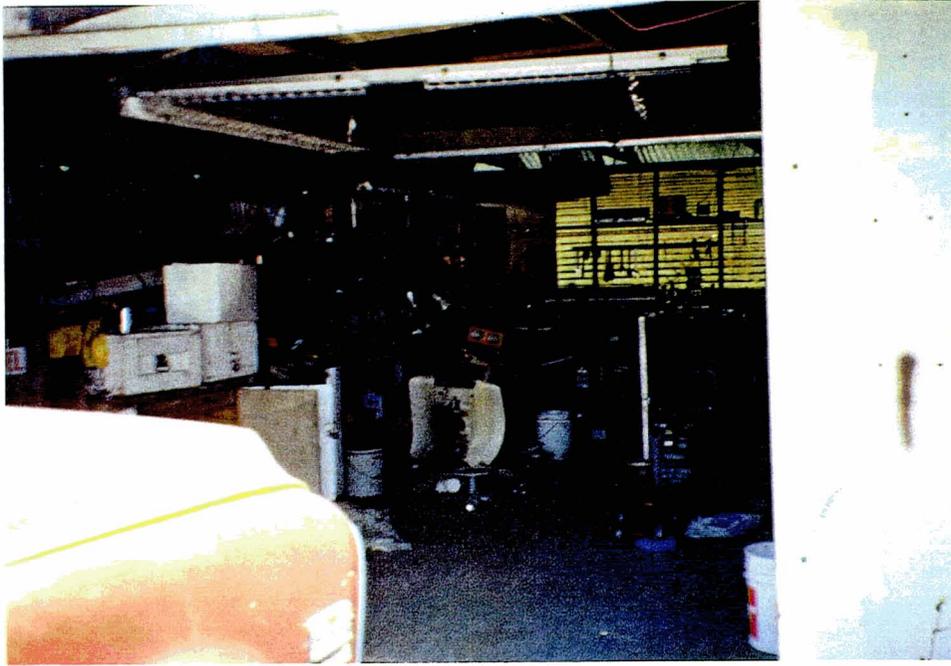
Photograph #21

View of oily stained soil covered with straw on Parcel 110.



Photograph #22

View of auto repair facility on Parcel 110. View is looking towards the northeast.



Photograph #23
View of interior of auto repair facility on Parcel 110.



Photograph #24
View of one of two mobile homes on Parcel 110. View is looking south.



Photograph #25

View of Parcel 111 looking south from east side of residence.



Photograph #26

View of pump house on Parcel 111. View is looking northeast.



Photograph #27

View of pigeon coops and trash-filled 55-gallon drums on Parcel 113.



Photograph #28

View of corral on parcel 123. View is looking east.