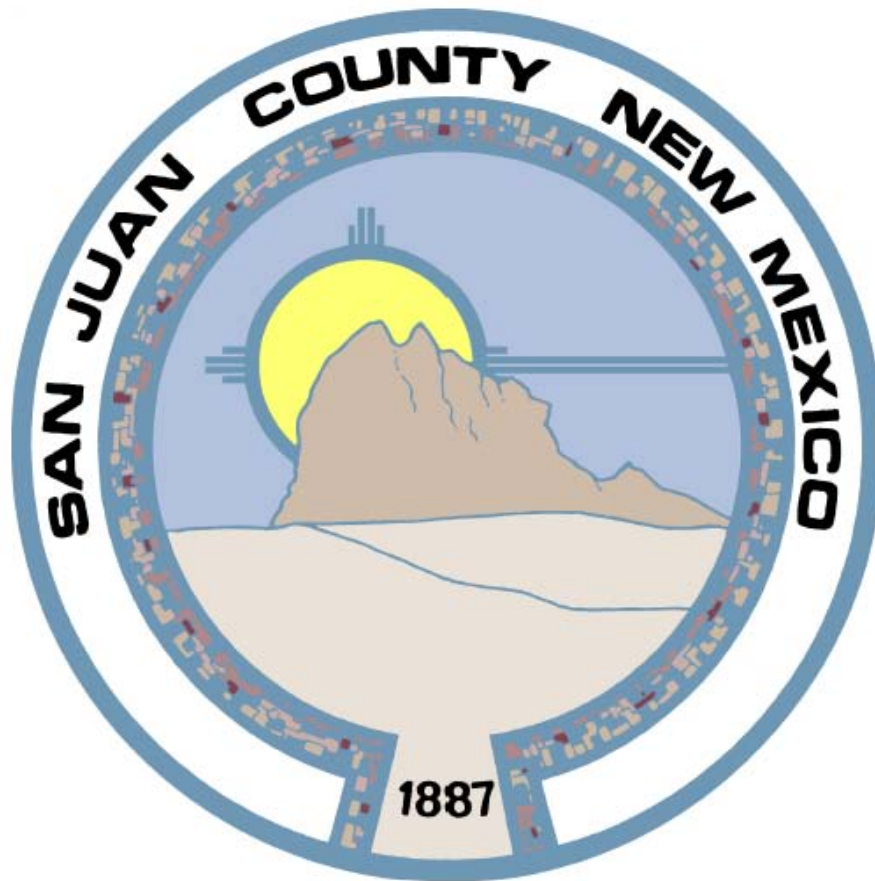


**San Juan County Mitigation Project  
2004**



**Attachments**

## **Attachment A**

### **Description of Working Group and Public Meetings**

In order to create the San Juan County Mitigation Project it was necessary to form a working group. This group met on a regular basis and provided needed input into the mitigation planning process. The following are the minutes that resulted from these meetings. In addition to the meeting a questionnaire was also developed and distributed. The results of the questionnaire are found in Attachment B.

The San Juan County Mitigation working group members are:

Don Cooper, San Juan County Emergency Manager  
George Duncan, Bloomfield Fire Chief  
Michael Heal, Aztec Police Chief  
Rob Hunt City of Farmington  
Robert Martin, Farmington Fire Chief

### **Pre-Disaster Mitigation Meeting** **February 7, 2003**

Evonne Gantz reviewed the funding that is available from FEMA. There are two types of funding available:

- Pre-disaster mitigation funding
  - Available annually
  - Match is 75/25 – cash or in kind
- Hazard mitigation grant program (Post-disaster)
  - Match is 75/25 – cash or in kind
  - Only available when there is a presidential declaration

In order to receive funding from these programs, you must participate in the Pre-disaster Mitigation Program. An approved Pre-disaster Mitigation Plan must be in place in order to receive funding after 11-01-2003.

The amount of funding available is uncertain. There are no criteria as to who gets how much money.

Jack Dietz reviewed some of the tasks that need to be completed while developing the mitigation plan:

- Develop a “Planning Team”
- Review Future City Codes
- Review Historical events
- Include natural hazards only or technical hazards also
- Specific Plans for the community.
- Cost analysis

- Funding schedule
- Team Leader will be Don Cooper
- Facilitator will be Jack Dietz
- Recorder will be Traci Hearn
- Meeting location Manager will be Traci Hearn

**Future meeting dates:**

- March 6<sup>th</sup> Public Meeting in Bloomfield
- March 7<sup>th</sup> at 9:00 AM
- April 3<sup>rd</sup> Public Meeting in Farmington 7:00 PM @ Civic Center
- April 4<sup>th</sup> at 9:00 AM
- May 2<sup>nd</sup> at 9:00 AM
- June 5<sup>th</sup> Public Meeting in Aztec 7:00 PM
- June 6<sup>th</sup> at 9:00 AM
- July 11<sup>th</sup> at 9:00 AM
- August 1<sup>st</sup> at 9:00 AM
- September 5<sup>th</sup> at 9:00 AM

**Pre-Disaster Mitigation Meeting  
March 7, 2003**

Jack Diets explained that the following information was needed to continue with the planning:

- Where are the cities building?
- How much have the costs been in the past for hazards?
- What hazards are we looking at within the County and the incorporated areas?
- Locations, determine flood plains as well as their historical frequency & predictions
- Past cost and predicted cost of future disasters
- What can we do to prevent or mitigate the circumstances (building codes, zoning codes, sub-division ordinances)?
- Do the cities have comprehensive plans in place?
- Are there hazard mitigations plans in place?
- FIPS Codes – San Juan County, Farmington, Aztec and Bloomfield

**The following problem areas were identified:**

- Fire hazard along the river – what kind of damage, what has happened, what can happen?
- Flooding needs to be looked at closer
- Fire interfaces in Farmington

We need to prioritize the hazards and begin to identify solutions.

**Questions to ask:**

- What are the hazards?
- Where are they going to be located?
- Frequency of the hazards?
- What type of risk are we in now?
- What kind of costs are we looking at?
- What priorities can we set?

**Things that remain to be done:**

- Determine what can be done to mitigate the hazards
- Come up with a name for this group

**Future meeting dates:**

- April 3<sup>rd</sup> Public Meeting in Farmington 7:00 PM @ Civic Center
- April 4<sup>th</sup> at 9:00 AM
- May 2<sup>nd</sup> at 9:00 AM
- June 5<sup>th</sup> Public Meeting in Aztec 7:00 PM
- June 6<sup>th</sup> at 9:00 AM
- July 11<sup>th</sup> at 9:00 AM
- August 1<sup>st</sup> at 9:00 AM
- September 5<sup>th</sup> at 9:00 AM

**Pre-Disaster Mitigation Meeting  
April 3, 2003  
Public Meeting at the Farmington Civic Center**

Those in attendance:

Eileen Ferraro, STIC	Jack Dietz STIC
Traci Hearn, SJC	Edward Reece, Navajo Prep
Robert Martin, FFD	Mike Arnold City of Aztec
George Colombowski, Citizen	Rod Hunt, City of Farmington
Cleve Noble, West Hammond Water Users Association	
Thomas Peoples, SJ Center for Independence	

Mr. Jack Dietz informed the group of the need to have a Mitigation Plan that is approved by FEMA. The deadline for this plan to be presented to FEMA is November 1, 2003. San Juan County has received a grant to develop a Mitigation Plan. Some of the hazard areas that were presented by the group include:

- Fire related issues along the river bottoms around outer edges of town
- Flooding issues on the river – potentially
- The Blanco Hub

- The Power Plants
- Pipelines that run through this area
- Warehouses that house toxic chemicals
- Coded Lightning protection devices for fuel storage locations
- Public Education
- Bank stabilization for ditches
- Domestic terrorism
- West Nile Virus
- Disabled persons
- Dam failure

Once the mitigation plan is completed, it has to be signed-off by the City Councilors as well as the County Manager. After that, the plan will go to the State for approval and then will be submitted to FEMA Region IV for their approval. Without an approved Mitigation Plan in place by November, the County will not be eligible for future mitigation funding.

Future meeting dates:

- May 2<sup>nd</sup> at 9:00 AM
- June 5<sup>th</sup> Public Meeting in Aztec 7:00 PM
- June 6<sup>th</sup> at 9:00 AM
- July 11<sup>th</sup> at 9:00 AM
- August 1<sup>st</sup> at 9:00 AM
- September 5<sup>th</sup> at 9:00 AM

### **Pre-Disaster Mitigation Meeting April 4, 2003**

Those in attendance:

Eileen Ferraro	STIC	Jack Dietz	STIC
Robert Martin	FFD	Traci Hearn	SJC
Erick Aune, City of Aztec		Rod Hunt, City of Farmington	

Mr. Jack Dietz reviewed a “County/Participating Jurisdiction Capability Matrix”.

<b>Areas of Concern:</b>	<b>Possible Solutions</b>
<ul style="list-style-type: none"> <li>• <b>Pipeline safety</b></li> </ul>	Public education
<ul style="list-style-type: none"> <li>• <b>Fire</b></li> </ul>	Zoning Requirements
<ul style="list-style-type: none"> <li>• <b>Winter storms</b></li> </ul>	County zoning codes
	Plowable roads
	Determine snow routes
	Identify the special needs
<ul style="list-style-type: none"> <li>• <b>West Nile Virus</b></li> </ul>	Identify mosquito prone areas

- **HazMat Transportation** Get records from the State Police or NM State Transportation Department To see what types of certificates have been issued. The intersection in Bloomfield is a concern.
- 
- **Waste Water Treatment Plant** Accidental discharge of pollutants into the river. Any discharge charge would go into a holding area before going into the river.
- **Septic Tanks in the County** Several mobile treatment plants with a moratorium on new septic systems.
- **Air Quality due to the power plants**
- **Birth defects related to environmental problems**

This month projects include:

Fire  
West Nile  
Floods

Next month:

Water Treatment Plant

Next meeting:

May 2<sup>nd</sup> at 9:00 AM

### **Pre-Disaster Mitigation Meeting May 2, 2003**

Those in attendance:

Eileen Ferraro	STIC	Jack Dietz	STIC
Robert Martin	FFD	Traci Hearn	SJC
Don Cooper	SJC		
Rod Hunt	City of Farmington		
Peggy Jordan	Cibola Cty		
Pedro Flores	McKinley Sty		
Carmen Diaz	McKinley		
Gary Whittington	Cibola Cty		

The group discussed exploring their options for hiring another contractor. Some of the people in the group are not happy with the way the meetings are being handled.

Jack Dietz explained to the group that he was aware of some problems, and if the group wanted to start again with another contractor, that was fine with him. He did express concern regarding the tight timelines and the fact that another contractor would have to come in and start all over.

The group decided to explore other contracting options. Jack agreed to come back and pick up where he left off should the group decide to keep working with him.

**Pre-Disaster Mitigation Meeting  
June 6, 2003**

Those in attendance:

Eileen Ferraro	STIC	Jack Dietz	STIC
Robert Martin	FFD	Traci Hearn	SJC
Don Cooper	SJC	Rod Hunt	City of Farmington

Jack reviewed the survey provided by Aztec:

1. Power Failure: seemed to be a big concern to the citizens of Aztec.
2. Wildfire: Robert Martin explained that there is really not a big wildfire danger around the area. There are firebreaks already in place; a fire could not spread very far.
3. Terrorism: Domestic terrorism is more of a threat in this area.
4. Dam Failure: Navajo Dam, Farmington Lake and Morgan Dam
5. The Blanco Hub: Probably the single most significant potential incident in the area.
6. Flash Flooding: We can identify the flood prone areas. Building along the arroyos is the biggest problem.
7. Drought: The biggest problem is that the ditch organizations do not monitor and control the amount of water being distributed. The area is in need of more water storage capacity.
8. Haz-Mat: The haz-mat accidents are not really centralized in one location. The biggest problem is probably in Shiprock at the Point of Entry. A true Haz-Mat Truck Route would be a big help in San Juan County.

The three main issues we will look at for this plan will be Flash Flooding, Drought and Haz-Mat.

Things we need:

1. Identify flood prone areas within the County as a whole.
2. Specific intersections where Haz-Mat becomes a real problem.
3. Identify alternative solutions for the problems that have been identified.
4. Pin point Tier II locations on a map.

**Pre-Disaster Mitigation Meeting  
July 11, 2003**

Those in attendance:

Danny Gonzales	STIC	Frank Schober	STIC
Robert Martin	FFD	Traci Hearn	SJC
Don Cooper	SJC		

Danny Gonzales had some questions regarding the contract. To date, the City of Farmington has the contracts and is in the process of getting them through their legal and purchasing departments.

Danny and Frank reviewed the survey results that were received from the City of Aztec.

The maps of the county were reviewed. Danny requested that we put the major pipeline routes on the maps.

**THINGS TO DO:**

- Get copies of the Cities Comprehensive Plan
- Put pipeline routes on the maps
- Get a copy of the San Juan County EOP

The next Mitigation Meeting is scheduled for Friday, August 1, 2003 at 9:00 AM here at the Fire Operations Center.

**Pre-Disaster Mitigation Meeting  
July 11, 2003**

Those in attendance:

Jack Dietz	STIC	John Mohler	BFD
Robert Martin	FFD	Traci Hearn	SJC
Ray Barnes	City of Bloomfield		

During this meeting, Jack questioned Ray Barnes, Floodplain Manager for Bloomfield, about the flooding problems in Bloomfield. Mr. Barnes indicated that one of the biggest problems they are facing in Bloomfield is the lack of updated floodplain maps. As the city has grown and continues to annex more property, more people are building in the floodplain area. Mr. Barnes stated that he could not stop people from moving into the floodplain area simply because the maps he has to work off of are from 1978. This is going to be a major problem once the maps are updated.

Jack requested the names and phone numbers of the Farmington Floodplain Manager and the Aztec Floodplain Manager. He is going to speak with these people by phone to get their input.

Jack provided a draft copy of the San Juan County Mitigation Project.

All of the above minutes were prepared and provided by Traci Hearn, of San Juan County Office of Emergency Management.

**Attachment B  
Description and Results of Questionnaire**

In addition to the public meeting held in both Bloomfield and Farmington the city of Aztec used the following questionnaire in order to gain additional input into the mitigation planning process. The following is a copy of the questionnaire used and the responses received.

**San Juan County Emergency Management  
Mitigation Questionnaire**

San Juan County is conducting a risk analysis to determine the types of disaster hazards that exists in our area. As a part of the analysis, we are interested in learning what hazards you would want us to prepare for. We would appreciate it if you would take a few minutes to complete the following survey and return it with your billing statement. If you have any questions concerning this survey, please contact us at 334-7605.

**1. Please circle the priority level for each of the following hazards in order of your concern.**

<b>Hazard</b>	<b>High Priority ..... Moderate ..... Low Priority</b>						
Dam Failure	7	6	5	4	3	2	1
Drought	7	6	5	4	3	2	1
Flash Flood	7	6	5	4	3	2	1
Hazardous Material Spill	7	6	5	4	3	2	1
Power Failure	7	6	5	4	3	2	1
Terrorism	7	6	5	4	3	2	1
Wild Fire	7	6	5	4	3	2	1
Winter Storm	7	6	5	4	3	2	1
Other	7	6	5	4	3	2	1

**2. What do you feel can be done to reduce or eliminate the danger of these hazards?**

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**3. Do you have any other recommendations we should consider?**

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**4. Do you want us to contact you?**

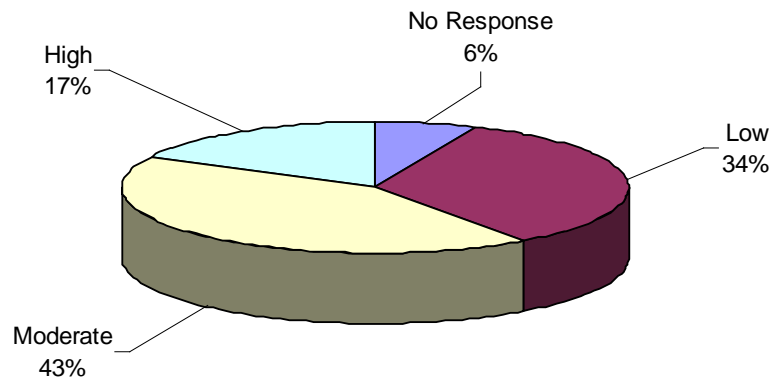
Name: \_\_\_\_\_

Address: \_\_\_\_\_

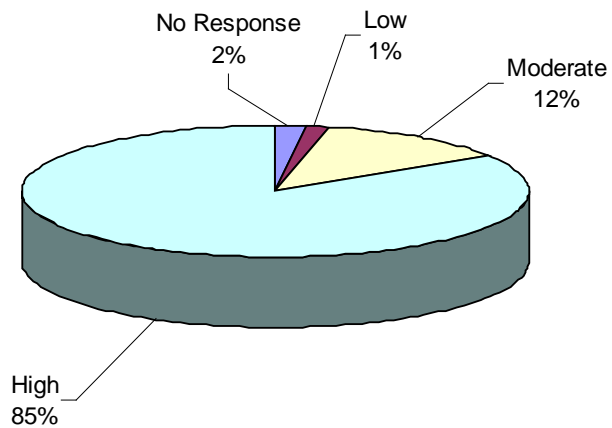
# SAN JUAN COUNTY EMERGENCY MANAGEMENT MITIGATION SURVEY RESULTS

The City of Aztec conducted a survey of its citizens to determine the types of disaster hazards that exists in the San Juan County area. Of the 2,830 surveys sent out, a total of 202 surveys (7.1 %) were returned. This report summarizes the results from those surveys.

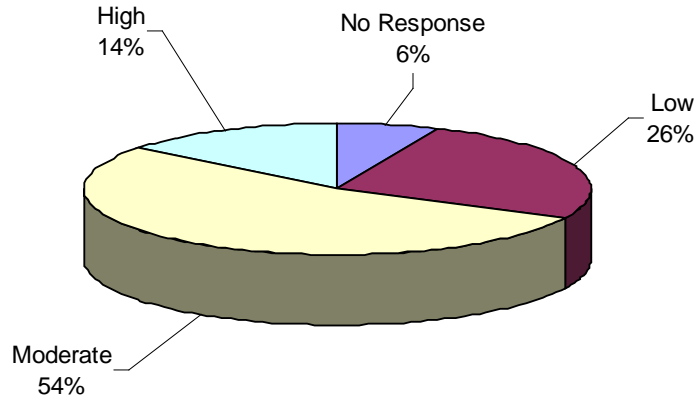
	No Response	Low Priority	Moderate Priority	High Priority
<b>Dam Failure</b>	13 (6%)	68 (34%)	86 (43%)	35 (17%)



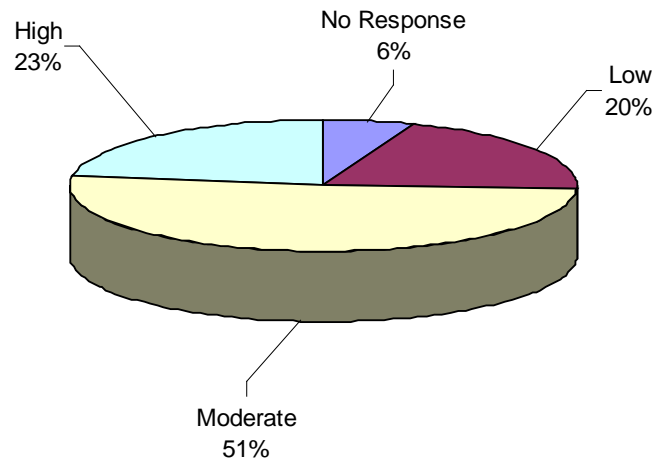
	No Response	Low Priority	Moderate Priority	High Priority
<b>Drought</b>	4 (2%)	3 (1%)	25 (12%)	170 (85%)



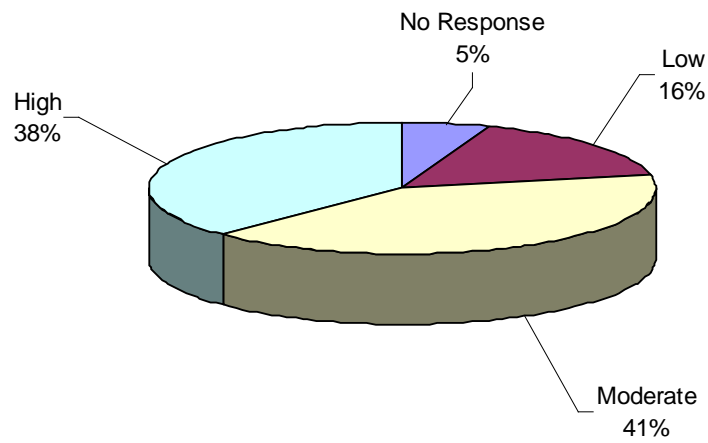
	No Response	Low Priority	Moderate Priority	High Priority
<b>Flash Flood</b>	13 (6%)	52 (26%)	107 (54%)	29 (14%)



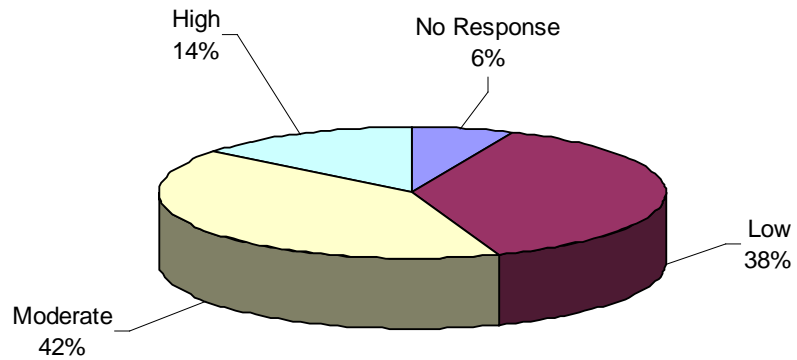
	No Response	Low Priority	Moderate Priority	High Priority
<b>Hazardous Material Spill</b>	12 (6%)	40 (20%)	104 (51%)	46 (23%)



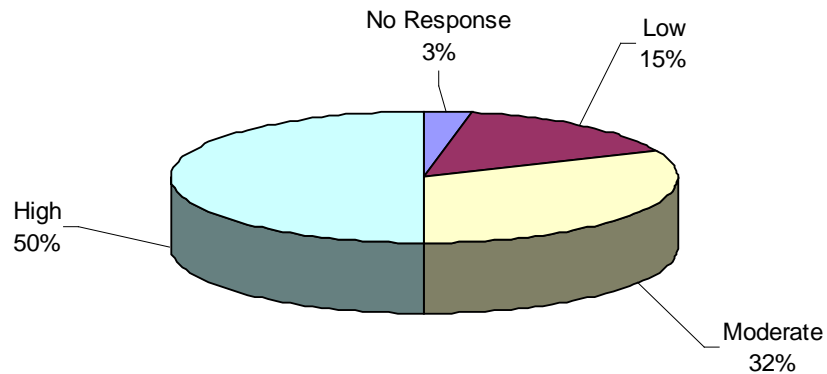
	No Response	Low Priority	Moderate Priority	High Priority
<b>Power Failure</b>	11 (5%)	33 (16%)	82 (41%)	76 (38%)



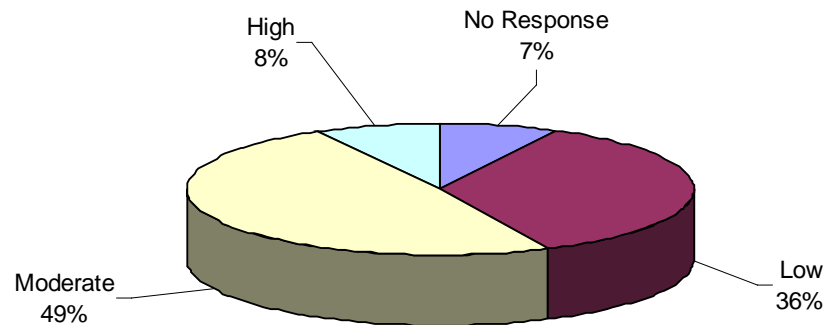
	No Response	Low Priority	Moderate Priority	High Priority
<b>Terrorism</b>	13 (6%)	77 (38%)	83 (42%)	29 (14%)



	No Response	Low Priority	Moderate Priority	High Priority
<b>Wild Fire</b>	6 (3%)	31 (15%)	64 (32%)	101 (50%)



	No Response	Low Priority	Moderate Priority	High Priority
<b>Winter Storm</b>	15 (7%)	72 (36%)	99 (49%)	16 (8%)



**Other Hazards Noted:**

- Air Pollution
- Bridge Failure
- Civil Violence
- Criminal Acts
- Drunk Driving
- Fiber Optic Line
- Gang Activity
- Gas Well-Pipeline
- Gas Wells
- Insect Infestations
- Litter/Trash
- Loss of Liberty
- Low Income Funding
- Noise
- Poor Streets
- Safeway Rising
- Prices
- SARS
- Sewer
- Traffic
- Traffic and Walking
- Water
- Weeds
- Weeds and Grass

## 2. What do you feel can be done to reduce or eliminate the danger of these hazards?

ID	Comments
5	Drought, need a much larger storage reservoir similar to the dammed arroyo that forms Lake Farmington, Nee one north of Aztec. Flash floods, clear brush in waterways. Install concrete barriers & gabion baskets to protect vulnerable roads, sewer lines, waterlines, etc.
7	There is really little one can do with these hazards.
8	Large water storage dam or tanks. Clear weedy areas, enforce cleanliness.
9	Conservation of resources.
10	Summer water storage, I can't believe something isn't already in place.
11	Drill wells, enlarge city ponds
12	Build another storage reservoir for water system.
13	Pray for rain.
15	Vigilant service by proper responsible person.
16	Jan Juan County should be prepared for all of the above. Each and every hazard is potentially life threatening to some one. My husband is seriously ill. We had a medical problem on May 9, 2003 that could have been an emergency if we had not had a back up system. In order to remedy the problem, the Home Health Care Nurse tried for 3 hours to reach a 1-800 # in Albuquerque but could not get through because of vandalism of the fiber optic line. The nurse finally had to locate a doctor on call that night to get permission to administer the prescription using a back up system and thereby administering a lower dosage than was prescribed. Fortunately this incident was not life threatening but it did cause us, the nurse, and the doctor major inconvenience and worry! This area is in need of a back up for the fiber optic line from Albuquerque. Keep in mind, this is the second time that the line has been vandalized in recent months. Communication is critical.
18	Reservoir, emergency alert system, emergency response training and practice.
19	Wild fire, do away with fireworks and strongly enforce the law on fire works and weed burning. I strongly agree on doing away with fireworks and their sale in our county with accompanying law enforcement with severe penalties for violators. Fire prevention is important for the health of many people in our county because the smoke causes repertory problems and allergies to be worse. It is life threatening for some people. Weeds can be mulched or taken to the dump. Burning weeds is not necessary. Many trees have been burned because of stray fire works and other property damage costing individuals a lot and tax payers in general for all the hours of fire fighters, equipment used, etc. The fireworks displays put on for the public should be adequate. Possibly preventing serious, even life changing injures to children. If any fireworks are allowed they should be noiseless and not ascending into the air. The noise of fireworks frightens people and animals. The animals sometimes are injured trying to get away from the noise, in particular horses and cows.
20	How about nicer roads. Get rid of the heavy equipment using the main roads and get some sidewalks in this town. How about underground wiring to houses?
21	Less concentration on beautification, tourism expenses and more on down to earth needs; water streets, law enforcement, vandalism, traffic control, substance abuse, DWI courts.
22	SJC Commissioners should be aware of the threat of drought not only this year but also in the coming years and prepare for it by taking measures to store water other than at ALP. Lose to much to evaporation, not a reliable storage, etc.
24	Pray
25	We see a lot of water flowing down the Animas at certain times of the year. Other times when we need it, its not there. Farmington has a lake, where's ours?
26	Enforce the law on people whom don't keep their weeds cut down. They let weeds go to seed, then the dogs, cats, birds and wind transplant them on other peoples' property. Also

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**ID Comments**

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- makes a haven for bugs, snakes, rats, and fire hazards. Hiding place for criminals and escaped animals. Far more dangerous than some people hollering about smoking in public places.
- 
- 29 Storage of water - e.g. Hampton Arroyo sometimes floods like a river! Remove weeds and trees on ditch banks. Back-up alternative power sources tied into system.
- 
- 31 Keep arroyos clean. Check dams at first of spring to make repairs if necessary. Have plan for flashflood season like arroyo washing trailers down behind high school. Have trained staff for hazardous material, terrorism or oil-gas site education. Power failure detrimental to those using life saving devices, have back up plan! Water storage during high river runoff for low months.
- 
- 32 Public training on residents response (under County instruction). County & city can't do it all. Co-ordination of special groups (HAM operators, CAP search & rescue, radio frequencies).
- 
- 35 Improve our water storage system. With the increased drought conditions in this area, we need to take steps to store water during the "plentiful" time of year.
- 
- 37 Explore options for water. Encourage conservation. Reward conservative remodeling & building. Require low flow toilets, showers. Xeroscaping.
- 
- 38 I believe we should always be on level 1 of water conservation. I still see far too many lawns being watered in the hot, windy part of the day. No lawn watering between 10am to 7pm May-Sept. No one would suffer and we could have a lot of water. The cities should follow this also.
- 
- 40 More security at dam.
- 
- 42 Drought: complete the other holding tank for water. Maybe help dam the Animas so that water would not be as big an issue. Give more people rights to the ditch water, so you are not paying to treat water that people are dumping on plants.
- 
- 44 Training for response; mandatory water conservation, perhaps a low-flow toilet replacement program.
- 
- 46 Flash floods: do not allow people to build in known run off areas. Drought: have a secure deep water holding areas near the river and keep them full.
- 
- 47 Water storage facilities. Have some type of warning signal.
- 
- 49 Consider not releasing so much water from the dam now and reserve it for the warmer months when it would be of more use, especially with the drier conditions.
- 
- 51 I plan on installing water saving devices and xeroscaping.
- 
- 52 Make people accountable for obeying the water usage rules in drought conditions. We know people who water in the heat of the day or some that leave their ditch water on all day and all night. There should be fines for this.
- 
- 56 We need a plan for all these hazards. Community needs to be informed of these plans and participate.
- 
- 57 Weed control.
- 
- 61 Build a dam on the Animas river and there will be no more water shortage. Pretty simple solution.
- 
- 62 To be concerned and be prepared as much as possible.
- 
- 63 Aztec water storage for city use. Reservoir storage for two to three months. For human consumption and emergency use.
- 
- 64 Always encourage xeroscaping, water late at night or early morning, water odd addresses use odd days, even addresses even days. Implement before a bigger problem arises.
- 
- 1 Pray a lot and a few hail Mary's
- 
- 2 Solid emergency plan in place. Clear instructions of emergency plans to emergency workers (police, sheriff, fire, dispatch, Nat'l guard, etc) Publish basic instructions in newspapers and send out flyer w/ utility bill.
- 
- 65 Conserve water everyone. No cigarettes thrown from cars. Watching fire at campgrounds.
-

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**ID Comments**

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- 66 Most of my concerns are due to natural disasters, little can be done to eliminate the danger.
- 68 Increase revenue for tighter security and more comfort aids instead of begging John Q. Public for socks for firefighters a, flood victims, etc. When Aztec is victimized by no suggested retail price.
- 70 Planning, training, practice.
- 71 Quit giving our water away, not Aztec but higher up the line.
- 72 Worry more about the peoples needs than the squaw fish needs.
- 74 These are all a high priority but very, very unlikely all will happen at once. You should be prepared for each one in case or when it happens.
- 75 Water conservation. Properly fix arroyo's. Example Heiland Rd. Brush clean out.
- 76 Training and public education (literature, web sites)
- 78 Community cooperation would be very helpful but it seems everybody has their own agenda
- 83 Encourage xeriscaping for urban residents, keep rural residents from wasteful irrigation practices, maintain good water storage facilities. Don't know what one can do about hazardous materials & dam/flood safety. Make sure our volunteer firefighters have adequate training and offer them some benefits so we keep them.
- 85 Drill some water wells, build a reservoir and store some water. Build a storage for water pumped out of the Animas River in early spring. Store adequate water supply.
- 86 Flood, a small creek behind my home, first city could clean out ditch twice a year and property could be built up and a culvert put in to avoid flooding of Blanco alley.
- 92 Lower the release of water from Navajo Dam. Kill fish not people.
- 109I would hope those in charge are alert and ready in the event of any emergency, that's what I pay taxes for.
- 110Make frequent inspections and repairs. Keeping authorities & the public informed. Make fire department more efficient with up-to-date equipment.
- 114Reduce unnecessary irrigation, control burn off, fix potholes in roads.
- 115Drought another reservoir
- 116I doubt anyone can make it rain so don't know what you can do about the drought.
- 117Quit trying to save the damn squaw fish - be more realistic with the use of our natural water reserves. Nature has a way of dealing and evolving species, always has and always will.
- 118Make it easier to identify who to call when there is an overflow of canals, etc... What is their names and where are they listed?
- 119To prepare local police and fire department. Reopen the check point at New Mexico and Colorado borders.
- 122Drought: water conservation, voluntary at first, mandatory if necessary. Terrorism: be prepared, take precautions, take threats seriously. Wild Fire: enforce ordinances, weed control, etc.
- 124Expand our water source and storage capabilities. Reuse our waste water on irrigation system, parks, lawns, or farms. Have a backup generator system for power. Clear brush, etc and plan for fire through city, river bottom and oil gas facilities. Snow removal and water during extreme cold.
- 126Be trained and ready to expedite plan for any emergency. Cooperation between 3 cities, county, and state.
- 127Our fence fronts on Aztec Ruins Property. In the past the weeds have been mowed so no dry grasses are high enough to cause hazard. Now that the new road is built there is more danger as a cigarette and the fickle wind could cause a brush fire.
- 128Water storage
- 129Dam failure carefully monitored. Drought requires more storage & better use of water. Flash flood is uncontrollable. Hazard Material spill needs constant hands-on training. Power failure
-

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**ID Comments**

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usually not very disruptive. Terrorism is totally unknown. Wild fire requires quick response with adequate material. Winter storm requires personal preparation and adequate equipment to keep all forms of communication open.

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132 Drought: find and develop a renewable water resource, i.e.. Ground water. Reservoir is ok, but an expensive "band aid" approach to the problem.

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135 be prepared. Inventory the situation often.

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136 For drought I believe everyone should be encouraged to develop water conservation habits.

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137 Build a large lake for Aztec water supply, north of Aztec.

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93 Being aware.

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95 Water conservation, might offer incentives for people who significantly lower their water use. You have the year to year comparison anyway, maybe 1000 gal less = coupon for dinner for 2 at Rubios, 10 gal gas, etc...

---

96 Additional water storage and access to other water sources.

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97 Cut down the big cottonwood trees on Ruins Rd, Keep the trees trimmed. Where the arroyo from Ruins Rd to La Plata was cleaned up looks great. Now do the same to Main Street.

---

98 Drunk driving. Enforce the law fairly and equally otherwise it undermines the purpose of the current laws. Drought - take steps to store water better and plan for future growth. Hazardous Material Spills - better training in case of emergencies. Wildfire - clean up neighborhood junk, weeds, old debris, and penalize smokers who dispose of their cigarette butts outside.

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99 Build larger pipelines (e.g. oil pipeline from Alaska) from somewhere in Minnesota, Canada, and release only to areas in need. We can survive without oil, but nothing survives without water.

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100 Train them. Dig ditch down road or east side from Swire Heights let water go to Blanco St.

---

101 The drought is very serious. The county and all the communities need to work together and help each other out with water supply for drinking and other household use. There should be a countywide effort to conserve water. A news blitz. Daily article in newspaper about conserving water! Water issues in San Juan County & communities should be addressed as though we are all in the same boat.

---

102 Pray for rain and snow.

---

105 Vigilance and citizens awareness. Don't let big money and big companies destroy our beautiful blue skies and our lungs.

---

106 We cannot eliminate them but by having plans prepared in case of them would reduce the danger.

---

107 I don't understand why some motorcycles are allowed to operate without mufflers or why some drivers have their

---

108 Start irrigation monitoring early and limitation days and penalties for excessive city water use. Educate public as to hazardous waste we might have transported thru this area. For offenders, why not penalize by mandatory community service hours, perhaps that will promote consideration for community.

---

139 Be alert to possibilities.

---

140 Dam up the Animas for use during dry years. LaPlata-Animas Project try to speed up this project.

---

141 Conserve on water. Pray for rains and more snow pack and do what your are doing so far.

---

144 The litter/dumping is one of the greatest "tragedies" to observe in these beautiful lands. Perhaps more education on where the transfer stations are. I gather 3- 30 gallon trash bags of cans, bottles monthly on weekly walks. 3 bags per mile. Having redeemable on glass bottles and a collection trailer for aluminum has worked in other states. The litter also reveals the inordinate amount of alcohol consumed before people drive back onto major highways. Thank you for these surveys.

---

---

**ID Comments**

---

145 Enforcement of laws made to protect the environment.

---

153 Drought: keep water users on a rotation on the irrigation ditch, institute a city water restriction. Power failure: keep investing in electrical infrastructure.

---

154 Water storage ponds for drought.

---

159 Stop letting so much water out of the dam. Fiber optics, better trunk lines.

---

161 I honestly don't know except, build something to hold extra water for droughts. For power failures, have backup generators.

---

162 Store water.

---

165 Reduce water usage and xeroscape the property.

---

168 Be alert.

---

172 Build another reservoir.

---

175 Drought: water storage facilities, continuing education on water conservation tips, better enforcement of watering restrictions. Wild fire: clear our dead weeds and underbrush better. No fireworks.

---

176 Instead of asking the general public, (who don't care cause if they did they would do something about it or would have your job) why don't you go to other places outside the states, other places to find out answers to the same problems we have! Maybe we should pray for smarter people in government.

---

179 Water conservation, advance warning systems.

---

180 Early control of water usage. Strict open fire restrictions, no fireworks.

---

183 Store water, conserve water.

---

184 Make sure people aren't watering down the streets.

---

185 Power Failure: I would like to see Aztec/County build a wind-power generating facility. Terrorism: Protect water supply. Also, emergency food supplies and emergency shelter should be prepared.

---

186 Unfortunately not much, we're at mother nature's mercy on my concerns.

---

187 Pray, have people cut weeds & remove stuff from around homes. City or county cut weeds in open places, hiways, alleys, parks.

---

188 Dam failure: regular inspections (annual) by a qualified/certified inspector. Drought: Educate/inform/reminders/community pep talks. Haz-Spill: Employees trained for emergency response, educate community, have a plan in place. Terrorism: What is being done? What kind of protection to our power plants, refineries, dams, etc. What is it costing us to put plans in place? Who pays for it? Wild Fire: Clean up - roadside - educate & inform county.

---

192 Planning.

---

193 Come up with the funding from donations or etc., and give an explanation to the people why the city has come up with donations or funding so that all of it goes to the high, moderate, or low priorities and the citizens know that.

---

196 In the case of a wildfire, ensure that our water is plentiful enough during the drought season to extinguish the fires). Hazardous material spill: investigate the latest technology available to clean it up, e.g., enzymes for oil spills, etc.

---

200 Increase water storage, workshops to teach water conservation & landscaping that requires little water. Have fire & emergency personnel trained in local hazardous materials, have emergency plans for all the above hazards & inform the citizens on them as needed.

---

201 Wildfire and drought for it to finally rain.

---

### 3. Do you have any other recommendations we should consider?

#### ID Comments

- 
- 2 Arrange funding to coordinate response training
- 
- 7 Please mark the lanes on the roads through town and the curbs. This is important. I have seen many close calls. We have a real hazard here!
- 
- 8 Another traffic bridge/river crossing, traffic lights at Southside/Rio Grande and S. Main St., cement storm drains arroyo/wash behind Safeway.
- 
- 16 Be prepared !
- 
- 20 Enforce the ordinances already in effect, specifically wed control. Instead of placing parking signs telling who is allowed to park where (been to the court house lately?). Spend some of that money to pay off the imaginary pipeline!
- 
- 21 Rights and needs of taxpayers as opposed to special interests. Gross receipts tax instead of property tax. Flat tax (10%) instead of income tax. Everyone should pay their fair share. I do not want to pay taxes for Bloomfield police department.
- 
- 22 Water storage tanks should be built throughout the county now to offset not only the drought but the impending increase in population in the future. Don't say that you were not warned.
- 
- 29 Remove tree infested with disease or insects. Remove noxious weeds, salt cedar, Russian Olive. Public awareness, methods & preventative measures. Weeds are in ditch water. Clean from ditch banks.
- 
- 32 Funding in place to assist affected areas. Emergency housing centers & medical facilities. Oils & gas companies assistance. Animal concerns.
- 
- 35 Continue to encourage citizens to use water (and other utilities) conservatively and to educate us as to how we can help.
- 
- 37 Flood plain control. Building/zoning codes.
- 
- 38 Public education to inform people of the fire risks involved in having trees and shrubs adjacent to dwellings.
- 
- 40 When building Animas Dam, install leak monitoring devices/holes not so easy to enter as Navajo Dam.
- 
- 45 Stop development until contractors have enough water rights to support the development.
- 
- 49 Penalize any house number/business for improper use. Water that runs into the street or parking areas is a waste. The main County building & court area always have sprinkler 'watering' pavement.
- 
- 51 ATVs are a huge safety hazard. Riding restrictions should be enforced. Decriminalize marijuana to devote officer hours to more serious crimes.
- 
- 52 I think in July, if there is drought and dry conditions, firework stands should not be able to even sell in our area.
- 
- 56 Should probably plan a little better for the future and the community is growing so should the utility solutions.
- 
- 63 Into Kokopelli subdivision, only one way in and out. If something happened to the road, no emergency vehicle, fire truck, etc would be able to reach. We would be stranded.
- 
- 66 I don't know how I'd be contacted re: evacuation procedures or where to go in an emergency. The TALON or the monthly utility bill would be a good way to inform us. What systems are in place to identify/assist people who are elderly or disabled?
- 
- 68 A San Juan County lottery, non-residents couldn't win. Let funds snow ball weekly. No machine picks. Customer furnishes own numbers. Only investment - blank tickets - put your numbers on each end, deposit half, take turns letting all towns draw. County keeps 1/2 of sales.
- 
- 71 We need more police and dog pound control on Chamiza.
- 
- 74 The expense of doing this could have been used to cover some of the cost of a crisis.
-

**ID Comments**

- 
- 75 Really need a culvert put under Heiland Rd. Every time it rains up north it runs over the street.
- 
- 82 Insect born diseases.
- 
- 86 Sewer needs to be maintained because I get all the pressure from sewer problems and no insurance (home owners) would ever cover sewer damage, this problem would become the city's problem if the worst happened.
- 
- 97 If every one would keep the weeds and grass cut there wouldn't be as much fire danger. The Ruins included.
- 
- 100 Check all very large cottonwood trees in town, especially on Blanco by high school.
- 
- 102 Support ALP, build a city reservoir.
- 
- 108 Let public know what might become a problem and what they can watch for and where to report. What they see, hear, or come upon. What is being done to safeguard the dam and the lake. When we see water usage that is excessive or beyond limitations, give us a phone # to call that will get quick attention.
- 
- 110 Keep the public notified often by TV, radio. Fire fighters should be insured and paid for the services they provide in a high-risk occupation.
- 
- 115 Quit saving water for nonsense like minnows and other trash fish. Navajo Dam was built by tax payers to reserve water note fish.
- 
- 118 Structures to prevent overflow of irrigation canals, ditches, and Estes and Hampton Arroyos for example.
- 
- 127 Mow the property along the road and next to our fence. We water the lawns however brush burning causes a shower of sparks.
- 
- 129 As much inter-department / inter agency shared info & training as possible - drill, drill, drill. Also charged communications capabilities.
- 
- 136 Such as central air conditioning, more gravel, less grass, don't leave water running when brushing teeth, etc...
- 
- 165 Plant low water need plants. Keep flowers to a minimum.
- 
- 175 The little pamphlet that was sent out a month ago or so with water conservation tips was a great idea. Keep reminding people that every little bit counts. Pray to the rain/snow gods.
- 
- 176 Get a clue!
- 
- 185 Wind-power facility
- 
- 187 Make the inmates do this. They need personal ? & there families are getting assistants from State this could be their pay.
- 
- 189 Repaint the street lines.
- 
- 191 Explosions such as occurred at Carlsbad, safety, regular inspections, old lines rupturing.
- 
- 193 Start charging 25 cents for an Aztec Talon newspaper for funding. Our state income tax also pays for improvements or problem areas, or we are just handing out money.
- 
- 196 Check with environmentalist community for hazardous spill clean-up options.
- 
- 201 To have people like me who want it to rain and snow this past winter to be preaching to us about all the dangers that have been brought on the drought and not these yahoos who have been and continue to be pleased by the lack of rain, snow, and snow run-off.

## Attachment C

### Hazard Locations San Juan County, Aztec, Bloomfield and Farmington

**Introduction.** The location of the hazards identified in this project must be considered in planning San Juan County's future growth. The following maps depict the location of the infrastructure that presently exists in San Juan County, Aztec, Bloomfield, and Farmington. The specific risk to the county's existing infrastructure has been identified in Part II of this report. The hazards discussed in this project are flooding, drought, wildfire and HAZMAT.

**Flooding.** The main flooding concerns of San Juan County are generally along the courses of the Animas, La Plata, and San Juan Rivers, depicted on the following maps. Although there are portions of flood maps depicted in Part II, San Juan County's complete floodplain is found in the FEMA Flood Insurance Rate Maps at [www.FEMA.gov](http://www.FEMA.gov).

**Drought.** No specific maps are included illustrating drought because drought affects the entire southwest region of the United States. However the National Oceanic and Atmospheric Administration (NOAA) maintains current information about drought conditions throughout the entire country at [www.NOAA.gov](http://www.NOAA.gov).

**Wildfire.** The enclosed maps illustrate the major wildfire concerns in San Juan County along the courses of the Animas, La Plata, and San Juan Rivers, depicted on the attached maps.

**HAZMAT.** Hazardous material is transported through San Juan County on U.S. 491, U.S. 64, U.S. 550, and N.M. 516, depicted on the enclosed maps. The photographs included in Attachment C depict specific intersections of concern along the hazardous material routes described in Part II.

*(Illustration 1. Insert San Juan County Infrastructure Map here)*

*(Illustration 2. Insert Aztec Infrastructure Map Here)*

***(Illustration 3. Insert Bloomfield Infrastructure Map Here)***

***(Illustration 4. Insert Farmington Infrastructure Map Here)***

## AZTEC, NEW MEXICO



Illustration 18.  
Photograph looking  
west along N.M. 516  
at the intersection  
with U.S. 550.



Illustration 19.  
Photograph looking  
north at the junction  
of N.M. 516 and  
U.S. 550.



Illustration 20.  
Photograph looking  
south along U.S. 550  
through the down  
town area of Aztec,  
NM.

## **BLOOMFIELD, NEW MEXICO**



Illustration 21.  
Photograph looking  
south along U.S. 550  
at Bloomfield High  
School.



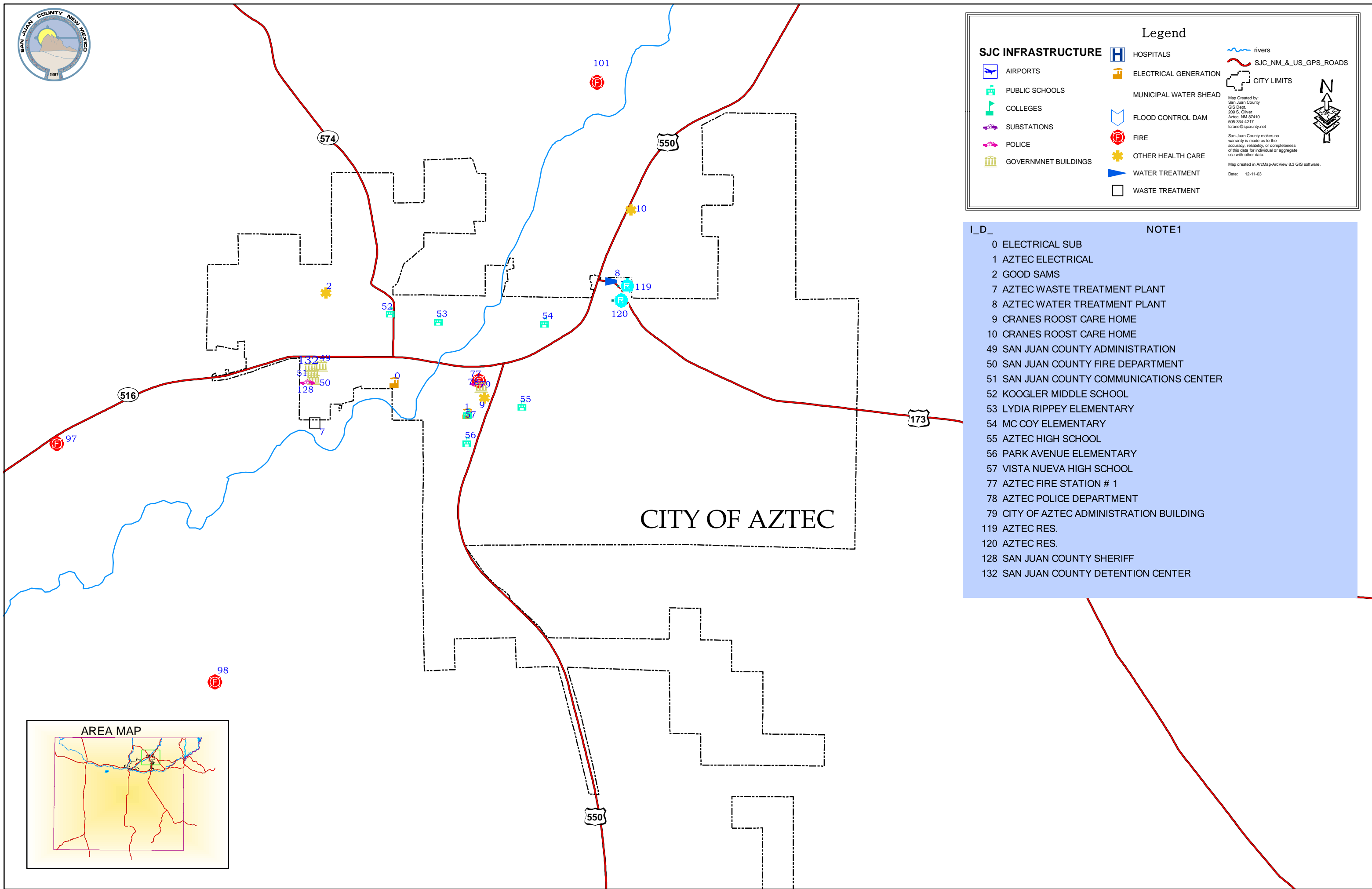
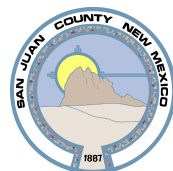
Illustration 22.  
Photograph looking south  
along U.S. 550 toward the  
junction of U.S. 550 and  
U.S. 64.



Illustration 23.  
Photograph looking west  
along U.S. 64 toward  
junction of U.S. 550.



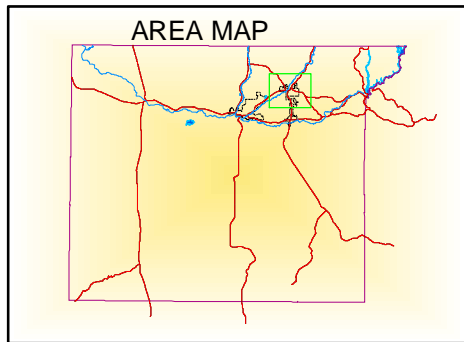
Illustration 24.  
Photograph looking south  
along U.S. 550 at junction  
with U.S. 64.

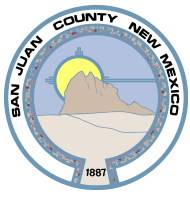


**Legend**

<b>SJC INFRASTRUCTURE</b>	HOSPITALS	rivers
AIRPORTS	ELECTRICAL GENERATION	SJC_NM_ & US_GPS_ROADS
PUBLIC SCHOOLS	MUNICIPAL WATER SHEAD	CITY LIMITS
COLLEGES	FLOOD CONTROL DAM	Map Created by: San Juan County GIS Dept. 209 S. Oliver Aztec, NM 87410 505-334-4217 lcrane@sjcounty.net
SUBSTATIONS	FIRE	San Juan County makes no warranty is made as to the accuracy, reliability, or completeness of this data for individual or aggregate use with other data.
POLICE	OTHER HEALTH CARE	Map created in ArcMap-ArcView 8.3 GIS software. Date: 12-11-03
GOVERNMENT BUILDINGS	WATER TREATMENT	
	WASTE TREATMENT	

I_D_	NOTE1
0	ELECTRICAL SUB
1	AZTEC ELECTRICAL
2	GOOD SAM'S
7	AZTEC WASTE TREATMENT PLANT
8	AZTEC WATER TREATMENT PLANT
9	CRANES ROOST CARE HOME
10	CRANES ROOST CARE HOME
49	SAN JUAN COUNTY ADMINISTRATION
50	SAN JUAN COUNTY FIRE DEPARTMENT
51	SAN JUAN COUNTY COMMUNICATIONS CENTER
52	KOGLER MIDDLE SCHOOL
53	LYDIA RIPPEY ELEMENTARY
54	MC COY ELEMENTARY
55	AZTEC HIGH SCHOOL
56	PARK AVENUE ELEMENTARY
57	VISTA NUEVA HIGH SCHOOL
77	AZTEC FIRE STATION # 1
78	AZTEC POLICE DEPARTMENT
79	CITY OF AZTEC ADMINISTRATION BUILDING
119	AZTEC RES.
120	AZTEC RES.
128	SAN JUAN COUNTY SHERIFF
132	SAN JUAN COUNTY DETENTION CENTER





**Legend**

**SJC INFRASTRUCTURE**

- AIRPORTS
- PUBLIC SCHOOLS
- COLLEGES
- SUBSTATIONS
- POLICE
- GOVERNMENT BUILDINGS
- HOSPITALS
- ELECTRICAL GENERATION
- MUNICIPAL WATER SHEAD
- FLOOD CONTROL DAM
- FIRE
- OTHER HEALTH CARE
- WATER TREATMENT
- WASTE TREATMENT
- rivers
- SJC\_NM\_&\_US\_GPS\_ROADS
- CITY LIMITS

Map Created by:  
San Juan County  
GIS Dept.  
209 S. Oliver  
Aztec, NM 87410  
505-334-4217  
tcrane@sjcounty.net

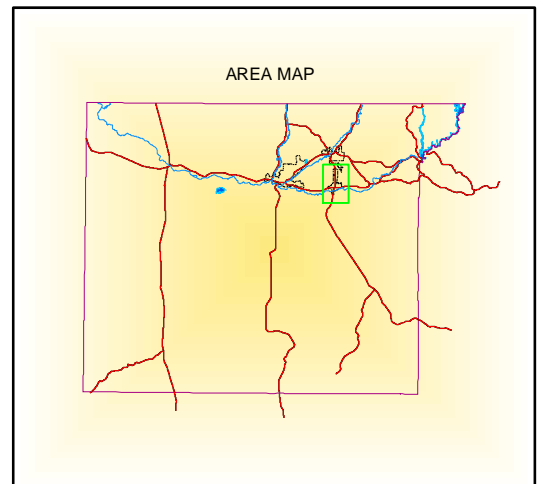
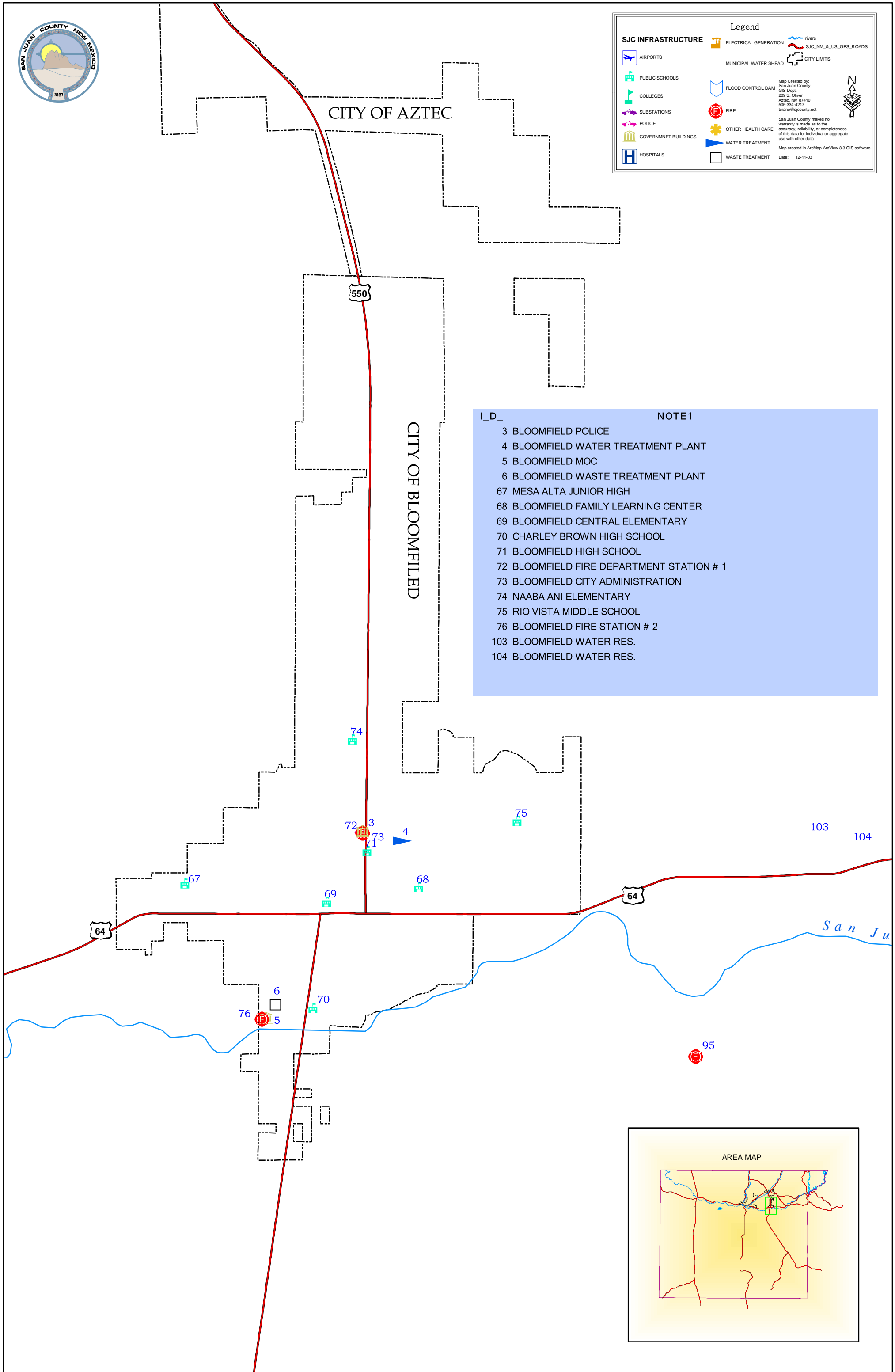
San Juan County makes no warranty is made as to the accuracy, reliability, or completeness of this data for individual or aggregate use with other data.

Map created in ArcMap-ArcView 8.3 GIS software.  
Date: 12-11-03

CITY OF AZTEC

CITY OF BLOOMFIELD

I_D_	NOTE1
3	BLOOMFIELD POLICE
4	BLOOMFIELD WATER TREATMENT PLANT
5	BLOOMFIELD MOC
6	BLOOMFIELD WASTE TREATMENT PLANT
67	MESA ALTA JUNIOR HIGH
68	BLOOMFIELD FAMILY LEARNING CENTER
69	BLOOMFIELD CENTRAL ELEMENTARY
70	CHARLEY BROWN HIGH SCHOOL
71	BLOOMFIELD HIGH SCHOOL
72	BLOOMFIELD FIRE DEPARTMENT STATION # 1
73	BLOOMFIELD CITY ADMINISTRATION
74	NAABA ANI ELEMENTARY
75	RIO VISTA MIDDLE SCHOOL
76	BLOOMFIELD FIRE STATION # 2
103	BLOOMFIELD WATER RES.
104	BLOOMFIELD WATER RES.



**Legend**

AIRPORTS	HOSPITALS	rivers
PUBLIC SCHOOLS	ELECTRICAL GENERATION	SJC, NM, & US, GPS, ROADS
COLLEGES	MUNICIPAL WATER SHEAD	CITY LIMITS
SUBSTATIONS	FLOOD CONTROL DAM	
POLICE	FIRE	
GOVERNMENT BUILDINGS	OTHER HEALTH CARE	
	WATER TREATMENT	
	WASTE TREATMENT	

Map Created by:  
San Juan County  
GIS Dept.  
209 S. Oliver  
Aztec, NM 87410  
505-334-4217  
tsore@sjcounty.net

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Map created in ArcMap-ArcView 8.3 GIS software.  
Date: 12-11-03

I_D_	NOTE1
11	BLM
12	LIFE COURSE REHAB SERVICE
13	THE BRIDGE
14	FBI
22	PIEDRA VISTA HIGH SCHOOL
23	ANIMAS ELEMENTARY
24	HEIGHTS JR. HIGH SCHOOL
25	MESA VERDE ELEMENTARY
26	SAN JUAN COLLEGE
27	COUNTRY CLUB ELEMENTARY
28	ROCINATE HIGH SCHOOL
29	FARMINGTON PD SMITHS SUBSTATION
30	MCKINLEY ELEMENTARY
31	FARMINGTON HIGH SCHOOL
32	FARMINGTON POLICE
33	FARMINGTON ADMINISTRATION
34	NEW MEXICO NATIONAL GUARD
35	APACHE ELEMENTARY
36	TIBBETTS JR. HIGH SCHOOL
37	LADERA DEL NORTE ELEMENTARY
38	SAN JUAN REGIONAL MEDICAL CENTER
39	FARMINGTON POWER PLANT
40	MC CORMICK ELEMENTARY
41	HERMOSA JR. HIGH SCHOOL
42	NORTHEAST ELEMENTARY
43	SWINBURNE ELEMENTARY
44	NEW MEXICO STATE POLICE DIST. 10
45	BLUFFVIEW ELEMENTARY SCHOOL
46	MESA VIEW JR. HIGH
47	ESPERANZA ELEMENTARY
48	FARMINGTON POLICE DEPARTMENT LIFE COURSE SUBSTATION
58	FARMINGTON LAKE
59	FOUR CORNERS REGIONAL AIRPORT
62	FARMINGTON FIRE STATION # 1
63	FARMINGTON FIRE STATION # 3
64	FARMINGTON FIRE STATION # 5
65	FARMINGTON FIRE STATION # 2
66	FARMINGTON FIRE STATION # 4
92	HART VALLEY FS # 2
93	LEE ACRES FS# 1
129	LEE ACERS SHERIFF SUBSTATION
131	FARMINGTON MOC

