

APPENDIX G – ARCHAEOLOGICAL AND HISTORICAL INVESTIGATIONS REPORT

**ARCHAEOLOGICAL and HISTORICAL INVESTIGATIONS
for the
NORTH SONOMA COUNTY AGRICULTURAL REUSE PROJECT**

Report Prepared For:

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MANAGEMENT SUMMARY

The Sonoma County Water Agency (SCWA) is proposing to construct the North Sonoma County Agricultural Reuse Project (NSCARP). The purpose of the project is to reduce reliance on natural regional water supplies by using recycled water on agricultural lands. The project is located within the Russian River, Alexander, and Dry Creek Valleys between the cities of Cloverdale and Santa Rosa. Project activities associated with the NSCARP include installation of approximately 119 miles of subsurface pipeline, development of 19 reservoirs (i.e., expansion of existing reservoirs and construction of new reservoirs), and construction of 14 booster pump stations to facilitate the flow of water in the pipeline system. Approximately 103 miles of pipeline will be installed within public road right-of-way and 16 miles of pipeline will be installed across open stretches of private land. The reservoirs associated with the project range in size from 5 to 45 acres and each booster pump station encompasses approximately 0.5 acres. The project Area of Potential Effects (APE) includes an approximately 100 foot wide corridor for the installation of the pipeline and the areas encompassed by the reservoirs and booster pumping stations. The proposed project is subject to the legal requirements of Section 106 of the National Historic Preservation Act 1966 and its implementing regulations, as amended, and the California Environmental Quality Act (CEQA) (Public Resources Code 21000 et seq.) 1970, as amended.

PMC was contracted to conduct archaeological and historical investigations for the NSCARP. These investigations were conducted to comply with regulations and following criteria presented in: 36 Code of Federal Regulations (CFR) Part 63; Section 106 of the NHPA of 1966, as amended; and CEQA. The purpose of the current report is to document cultural resources (e.g., prehistoric sites, historic sites, historic buildings, or isolated artifacts) identification efforts. Cultural resources staff of PMC conducted these investigations during 2005 and 2006. Archaeological and historical investigations for the project included: a records search at the Northwest Information Center at Sonoma State University, Rohnert Park; archival research; a sacred lands search conducted by the Native American Heritage Commission; consultation with the Native American community; and pedestrian surface survey of the project APE. The record search identified sixty-two previous surveys either within or adjacent to the project APE and ten previously recorded sites within the project APE. Current pedestrian surface survey of the project APE identified one new historic site. The sacred lands search did not identify any Native American cultural resources either within or near the project APE.

Archaeological and historical investigations for the NSCARP identified a total of ten prehistoric and historic sites within the entire project APE. The environmental documents for the NSCARP, however, present four project alternatives that include a no project alternative and three other alternatives, each of which affects different sites. One of the sites, P-49-2866 (Wohler Bridge), is eligible for inclusion in the National Register of Historic Places (NRHP) and the California Register of Historical Resources (CRHR) and another site, the Lambert Bridge (20C-0248) is not eligible for inclusion in the NRHP. The eligibility for inclusion in the NRHP and the CRHR of other sites in the APEs associated with the various NSCARP alternatives will be determined upon selection of an alternative and completion of project designs.

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1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION

The Sonoma County Water Agency (SCWA) is proposing to construct the North Sonoma County Agricultural Reuse Project (NSCARP). The purpose of the project is to reduce reliance on natural regional water supplies and improve the reliability of water supplies for agricultural use by using recycled water on agricultural lands. Project activities associated with the NSCARP include installation of approximately 119 miles of subsurface pipeline, development of 19 reservoirs (i.e., expansion of existing reservoirs and construction of new reservoirs), and construction of 14 booster pump stations to facilitate the flow of water in the pipeline system. The NSCARP is subject to the legal requirements of Section 106 of the National Historic Preservation Act 1966 and its implementing regulations, as amended, and the California Environmental Quality Act (CEQA) (Public Resources Code 21000 et seq.) 1970, as amended.

Approximately 103 miles of pipeline will be installed within public road right-of-way (ROW) and 16 miles of pipeline will be installed across open stretches of private land. The Area of Potential Effects (APE) for pipeline installation within public road ROW includes an approximately 40-60 foot wide corridor and excavation of an approximately 3 foot wide by 6 foot deep trench for the pipeline. Project activity will occur within paved roadways or within 3 feet of the edge of pavement and ground disturbance primarily consists of excavation of the ditch for the pipeline. The 40-60 foot wide corridor is necessary to minimize traffic delays and maintain adequate levels of service during project construction by allowing traffic to use road shoulders, which in some cases requires filling of road side ditches. The APE for pipeline installation across open stretches of private land includes an approximately 100 foot wide corridor and excavation of an approximately 3 foot wide by 6 foot deep trench for the pipeline. The 100 foot wide corridor provides adequate space for all project needs including staging of equipment and materials, but ground disturbance primarily consists of excavation of the ditch for the pipeline. The reservoirs associated with the project range in size from 5 to 45 acres and each booster pump station encompasses approximately 0.5 acres. The APE for the reservoirs and the booster pump stations includes the footprint of each reservoir and booster pumping station.

1.2 PROJECT LOCATION

The NSCARP is located in Sonoma County within the Russian River, Alexander, and Dry Creek Valleys between the City of Cloverdale and the northern edge of the City of Santa Rosa (Figures 1-2). The project area is primarily agricultural lands, but also includes urban and residential areas.

1.3 SCOPE OF WORK

Cultural resources staff of PMC was contracted to conduct archaeological and historical investigations for the NSCARP. Investigations were undertaken during 2005 and 2006, and included: a records search conducted at the Northwest Information Center at Sonoma State University, Rohnert Park; archival research; a sacred lands search conducted by the Native American Heritage Commission; consultation with Native American groups and individuals regarding the project; pedestrian surface survey of the pipeline alignments, reservoir sites, and booster pumping station sites; and completion of a report documenting the results of archaeological and historical investigations.

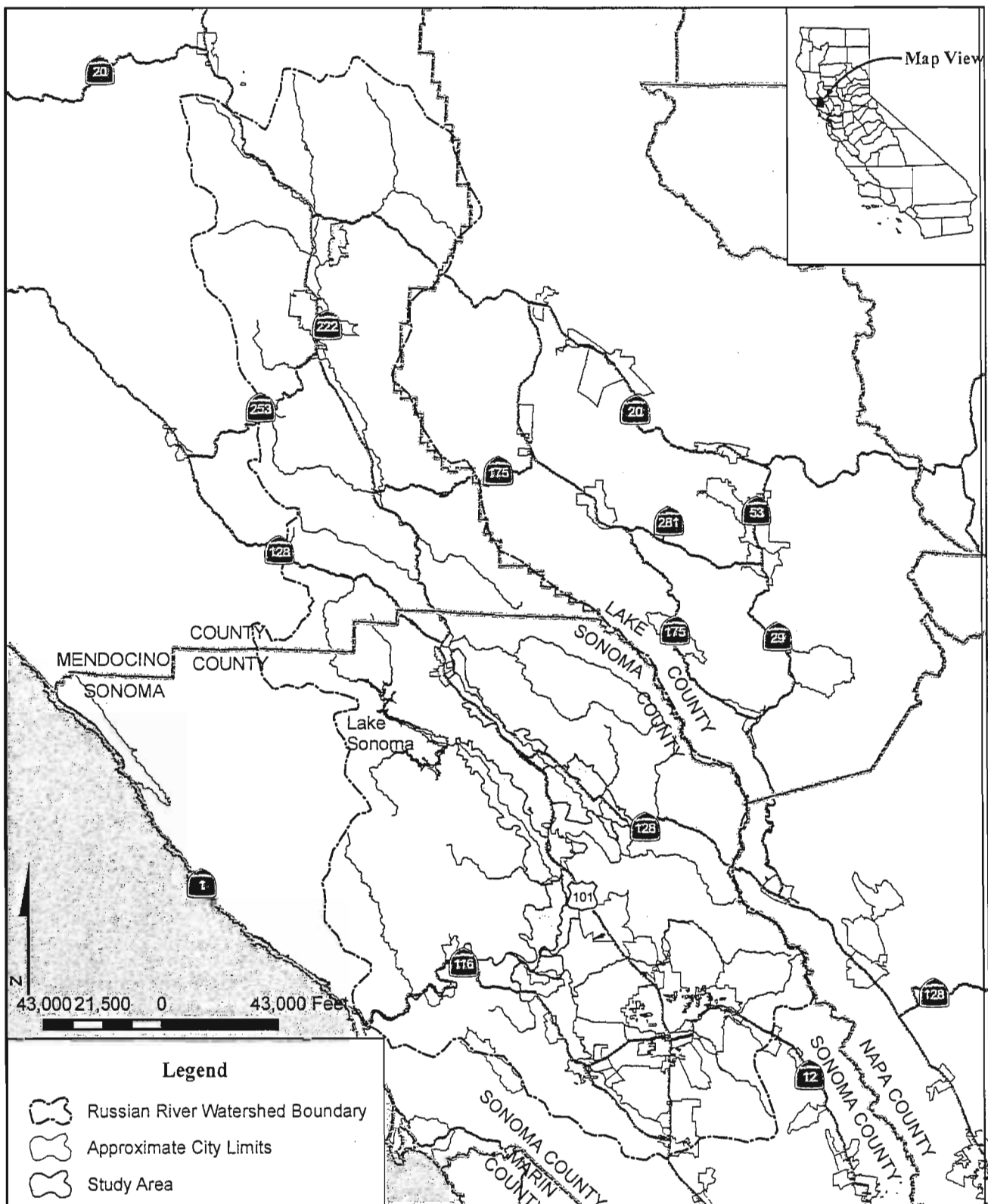


Figure 1. Project Vicinity Map

SOURCE: Wagner & Bonsignore

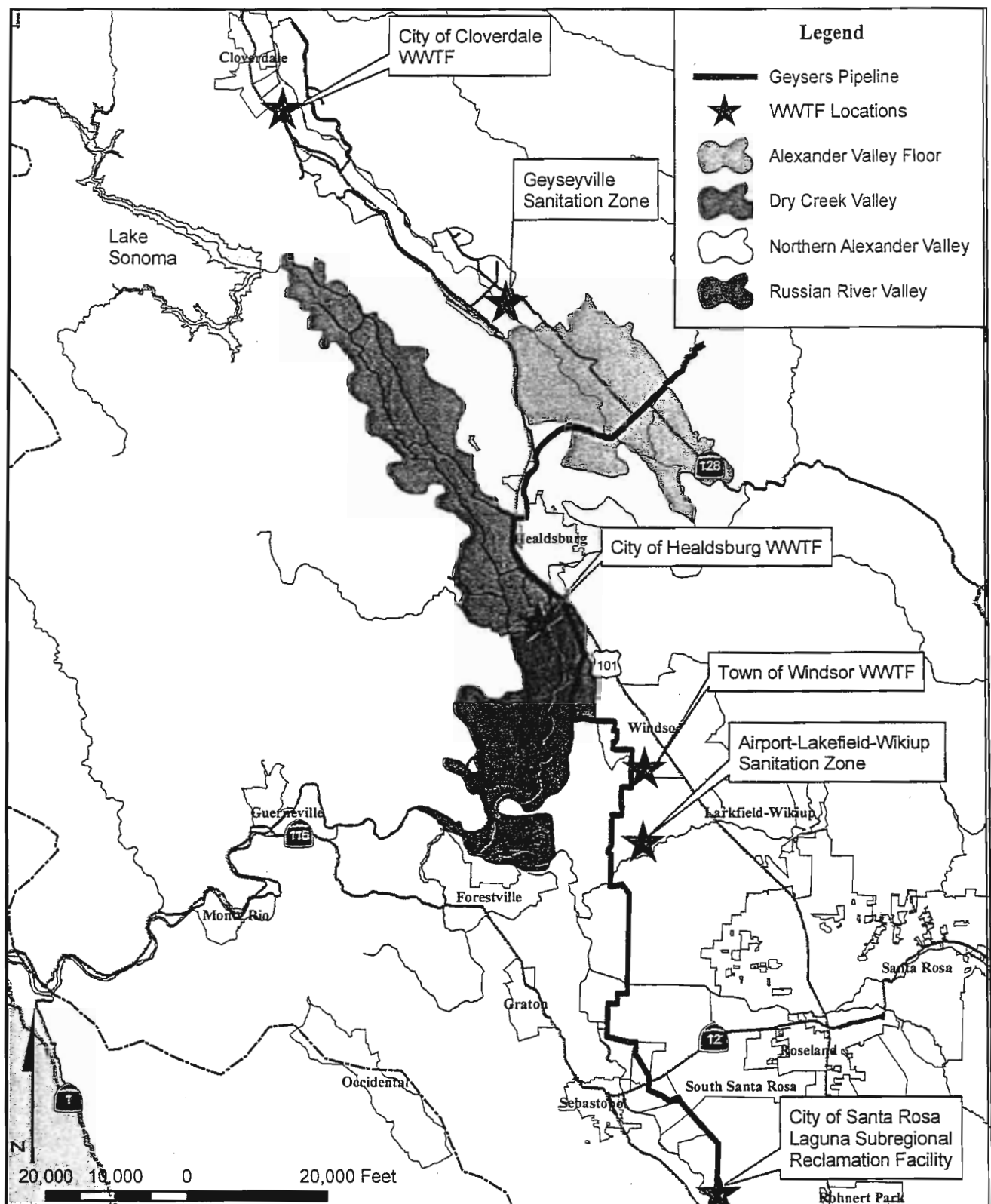


Figure 2. Project Location Map

SOURCE: Wagner & Bonsignore

1.3.1 Cultural Resources Identification

The record search identified sixty-two previous surveys (Table 1) either within or adjacent to the project APE and ten previously documented sites (Table 2) within the project APE and twenty-nine previously recorded sites near it (Table 2). The previous surveys did not cover the entire project area. Consequently, cultural resources staff of PMC conducted an intensive pedestrian surface survey across areas of the project not previously surveyed and any areas determined to be archaeologically sensitive regardless of any previous surveys using 1 to 5 meter transects (Figures 3.1-3.25).

Surface visibility varied across the project APE depending on location. Surface visibility was generally good along pipeline alignments located within public ROW, but patches of grasses affected visibility in some areas. Surface visibility ranged from good to poor along pipeline alignments located on private lands. All or parts of some of these alignments follow existing dirt roads, but others cross open stretches of land where grasses affected. Surface visibility around existing reservoirs that will be enlarged as part of the project was generally good, but patches of grasses affected visibility in some areas. In addition, most the areas around existing reservoirs are disturbed by construction of the reservoirs. Surface visibility at the site of new reservoirs was generally poor because vegetation (e.g., conifers, oaks, brush, and grasses), slash, and duff affected surface visibility. The sites of new reservoirs, however, are generally located in areas of low archaeological sensitivity such as steep-sided valleys and drainages. Surface visibility ranged from good to poor across the sites of booster pump stations, with grasses affecting visibility in some areas. In areas of poor surface visibility more closely spaced transects were used to survey the area and, as necessary, the ground surface was scraped to expose native soils. Consequently, pedestrian surface survey of the NSCARP APE was adequate to identify the types of cultural resources that would likely occur in the area.

Pedestrian surface survey identified a new historic site, the J Wine Trash Dump (Table 2), and that nearly the entire project APE is disturbed by a variety of activities including viticulture, agriculture, ranching, road construction, and commercial/residential construction. Archaeological and historical investigations are adequate for the NSCARP, and a reasonable effort has been made to identify cultural resources within the APE for the project.

1.3.2 Site Recording

Previous and current archaeological and historical investigations for the project identified eleven prehistoric and historic sites within project boundaries. These sites were adequately recorded, as appropriate, using Department of Parks and Recreation site record forms (e.g., Primary Record Forms). The site record forms are included in Appendix A of this report.

1.4 NATIVE AMERICAN CONSULTATION

Cultural resources staff of PMC requested a sacred lands search and a list of Native American contacts from the Native American Heritage Commission. The sacred lands search dated July 14, 2005 did not identify any Native American cultural resources either within or near the APE for the NSCARP. PMC contacted all groups and/or individuals on the list provided by the Native American Heritage Commission regarding the NSCARP (Appendix B, Native American Consultation). PMC, to date, has not received any comments regarding the project from any interested parties.

Table 1. Previous Surveys in NSCARP Area (Full citations are included in Appendix C)

SURVEY NUMBER	REPORT AUTHORS and DATE	QUAD MAP
10496	Waechter 1989	Asti
11603	Werner 1989	Ásti
21095	Beard 1998a	Asti
1843	Jones 1979	Cloverdale
969	McGuire 1976	Geyserville
1030	Jackson 1978	Geyserville
2100	Kuhn 1980	Geyserville
8915	Holman 1986	Geyserville
9495	Holson 1987	Geyserville
11168	Flynn 1989	Geyserville, Asti
11636	Haney 1990	Geyserville, Asti
12761	Origer 1991b	Geyserville
22137	Beard 1998b	Geyserville
1052	Adams 1978a	Geyserville
1207	King 1978	Guemeville
4910	Soule 1982	Guemeville
7944	Bramlette 1986	Guemeville
12756 and 13387	Origer 1991a and Origer 1991d	Guemeville
19153 and 24310	Beard 1997 and Beard 1999	Guemeville
265	Baumhoff 1976	Healdsburg, Geyserville, Guemeville
703	Origer 1977	Healdsburg
1166	Adams 1978b	Healdsburg
11578	Ryan and Werner 1990	Healdsburg
13217	Origer 1991c	Healdsburg, Geyserville, Asti, Cloverdale
13401	Origer 1991e	Healdsburg
16018	Patterson et al. n.d.	Healdsburg, Geyserville, Guemeville
16464	Beard and Shannon 1994	Healdsburg
21100	Origer 1998	Healdsburg, Guemeville
25052	Roop 2000	Healdsburg, Guemeville
4999	York 1982	Jimtown
6928	Soule 1984	Jimtown
8973	Fitzgerald 1986	Jimtown
11606	Dondero 1990	Jimtown
12225	Waechter 1990a	Jimtown
14299	Gmoser 1992	Jimtown
18012	Flaherty and Werner 1996	Jimtown
21317	Schroder and Origer 1999	Jimtown
22483	Gerike et al. 2000	Jimtown, Healdsburg, Sebastapol
22578	Origer 2000	Jimtown
22666	Coleman et al. 2000	Jimtown, Healdsburg, Sebastapol
22736	Jones & Stokes 2000	Jimtown, Geyserville, Asti
23722	Ward and Origer 2001	Jimtown
26999 and 27438	Chattan 2003a and Chattan 2003b	Jimtown
13710	Soule 1991	Sebastapol
19833	Loyd and Beard 1997	Sebastapol
9101	Bouey 1984	Sebastapol
7749	Gerike 1985	Sebastapol
2088	Holson 1980	Sebastapol
1840	Kuhn 1979	Sebastapol
2375	Origer 1980	Sebastapol
2488	Origer 1981	Sebastapol
11956	Origer 1990	Sebastapol
12799	Origer 1991f	Sebastapol
22511	Origer 1999	Sebastapol
11465	Peak & Associates 1989	Sebastapol
2300	Pulcheon 2000	Sebastapol
5005	Scientific Resources Surveys 1982	Sebastapol
11953	Waechter 1990b	Sebastapol
12593	Waechter 1991	Sebastapol

Table 2. Sites in Project Area

SITE IDENTIFICATION NUMBER	DESCRIPTION	WITHIN APE ¹	ELIGIBILITY FOR THE NATIONAL REGISTER OF HISTORIC PLACES ²
CA-Son-621	Lithic scatter		
CA-Son-622	Lithic scatter	Yes	
CA-Son-623	Lithic scatter		
CA-Son-624	Adobe homestead		
CA-Son-626	Lithic scatter		
CA-Son-630	Lithic scatter		
CA-Son-631	Lithic scatter		
CA-Son-632	Lithic scatter		
CA-Son-1237H	Historic buildings		
CA-Son-1789	Lithic scatter		
CA-Son-1820/H	Lithic scatter; historic buildings		
CA-Son-1929	Lithic scatter	Yes	
CA-Son-1988H	Historic buildings		
CA-Son-2116	Prehistoric house pit		
CA-Son-2317H	Historic road alignment; Jintown Bridge, 20C-0006	Yes	
P-49-2283	Historic trash scatter	Yes	
P-49-2686	Historic buildings		
P-49-2688	Historic trash scatter		
P-49-2689	Historic trash scatter		
P-49-2690	Historic ranch complex		
P-49-2694	Historic building foundations		
P-49-2697	Historic building foundations		
P-49-2698	Historic building foundations		
P-49-2700	Historic palm trees		
P-49-2866	Wohler Bridge, 20C-0155	Yes	Eligible
P-49-2870	Lambert Bridge, 20C-0248	Yes	Not Eligible
P-49-2894	Historic building		
P-49-2895	Historic building		
P-49-3058	Historic farm complex		
P-49-3223	Historic ranch complex		
Son-HR-33	Historic building		
Son-HR-34	Historic building		
C-265	Historic building		
C-912	Historic building		
C-1081	Historic building		
20C-0040	Bridge	Yes	
20C-0106	Yoakim Bridge, 20C-0106	Yes	
J Wine Trash Dump	Historic trash scatter	Yes	

¹A blank space indicates that the site is not in the NSCARP APE.

²A blank space indicates that the eligibility of the site is not determined.

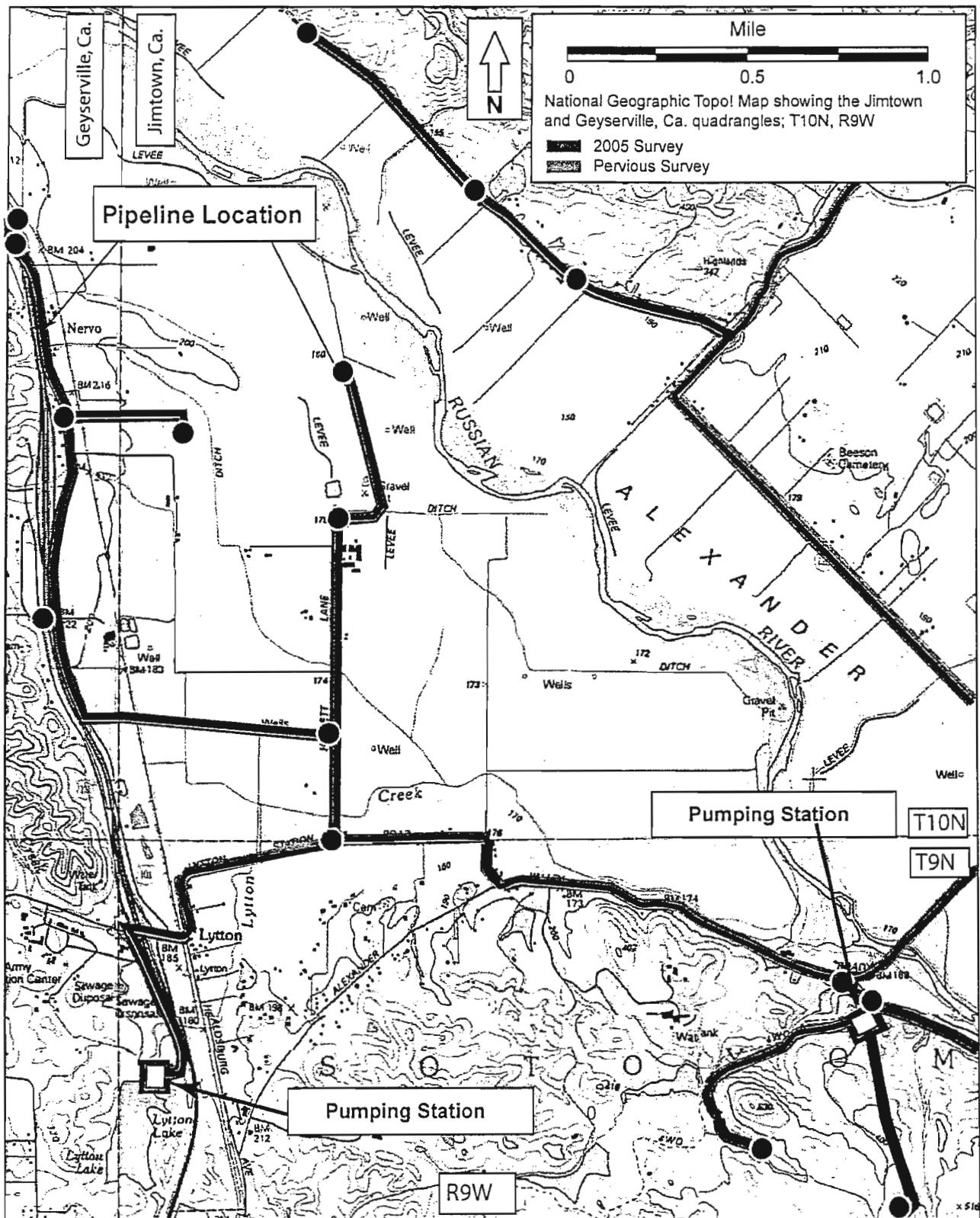


Figure 3.1. Survey Map of Alexander Valley Floor Area

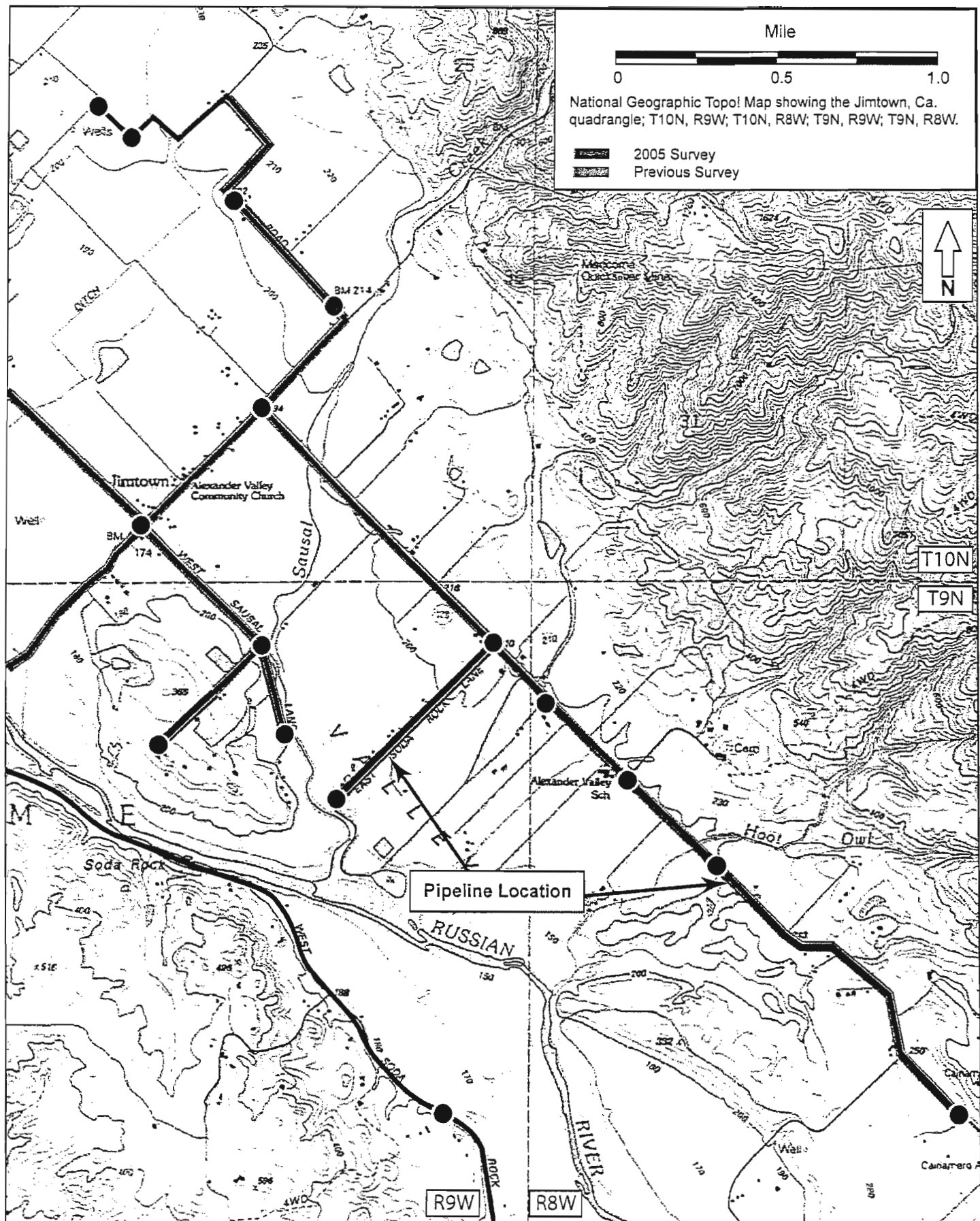


Figure 3.2. Survey Map of Alexander Valley Floor Area
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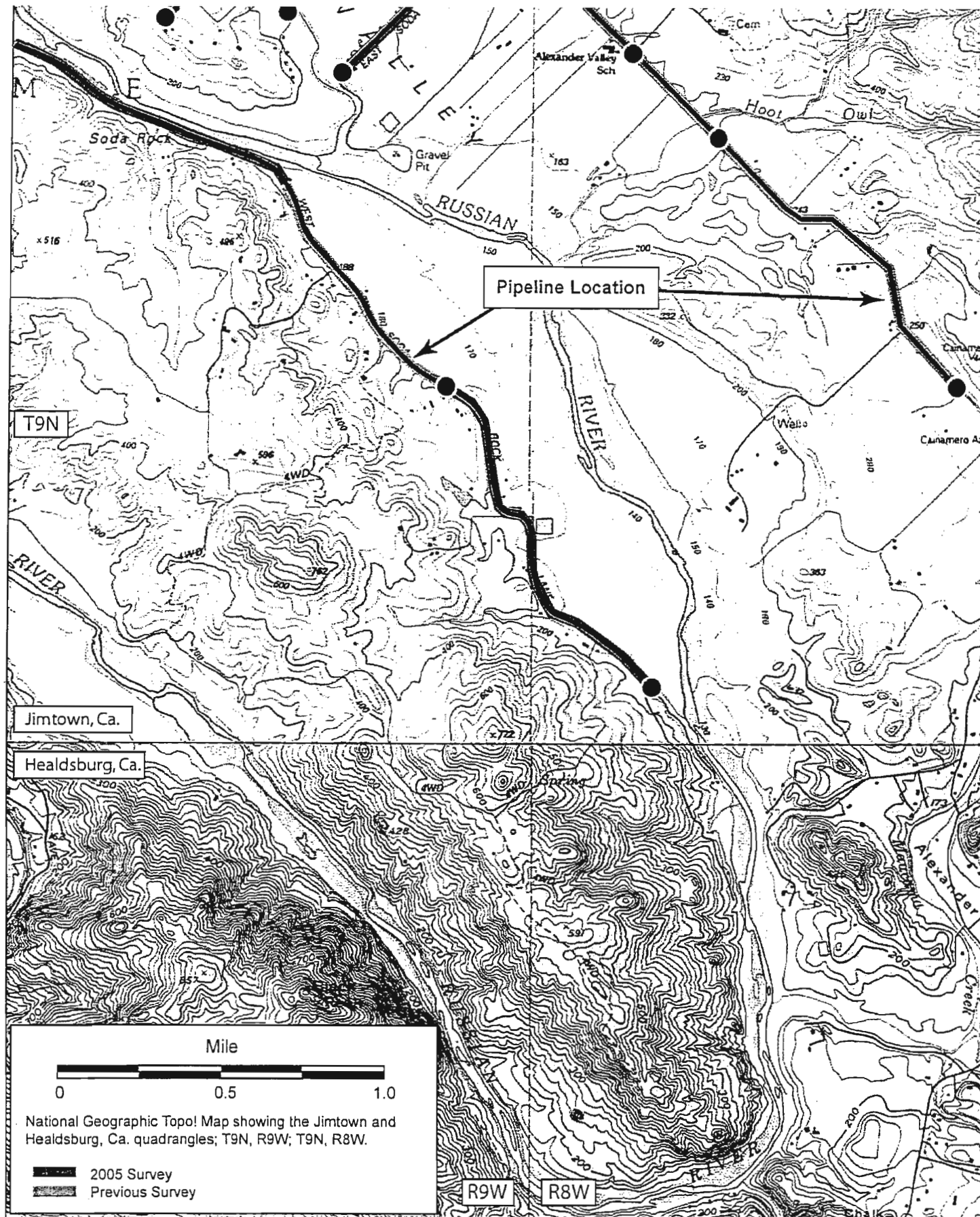
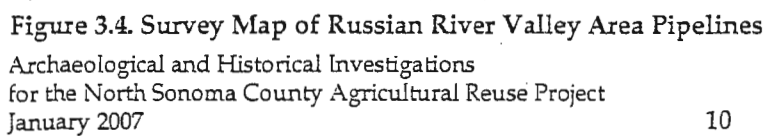


Figure 3.3. Survey Map of Alexander Valley Floor Area

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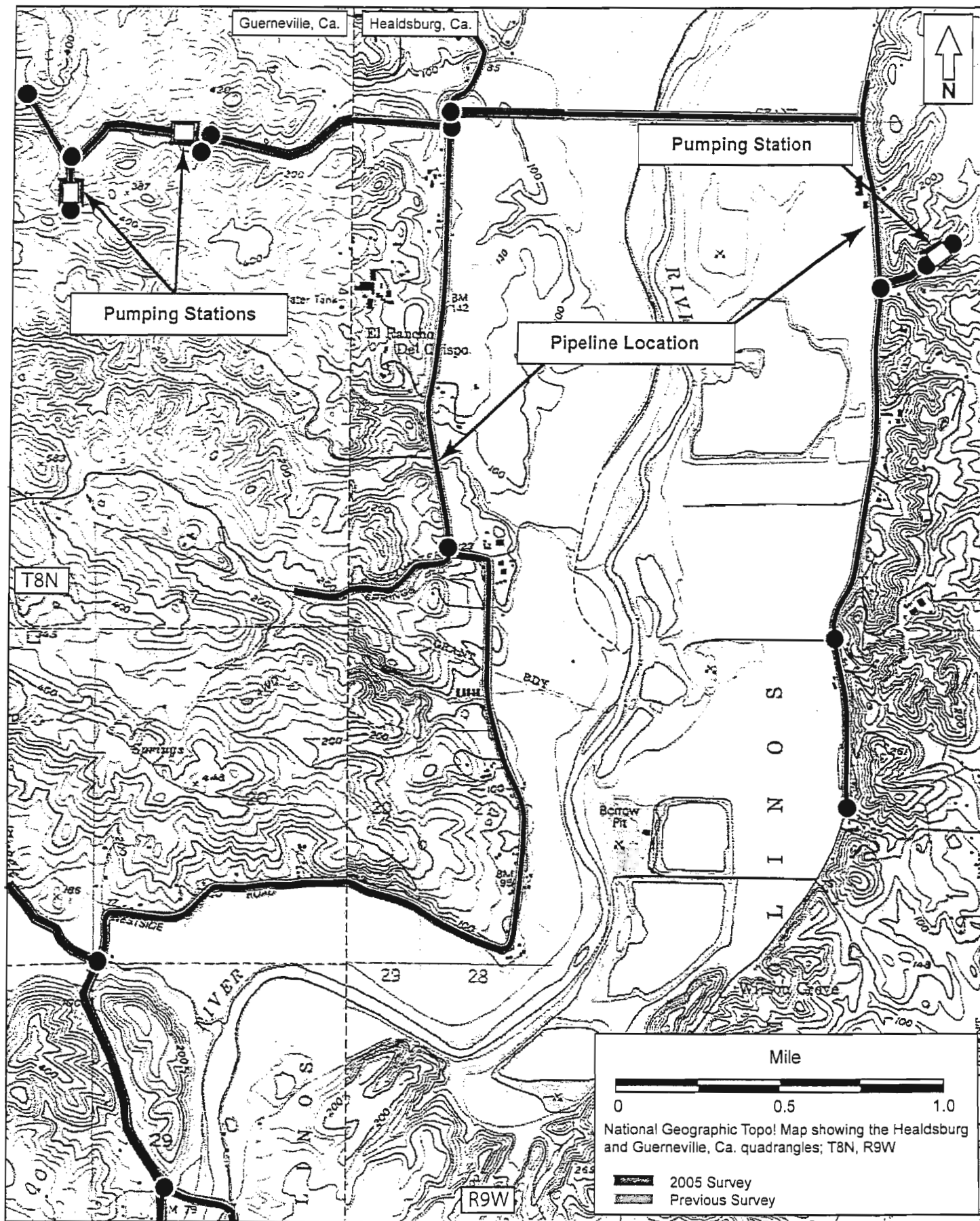


Figure 3.5. Survey Map of Russian River Valley Area Pipelines

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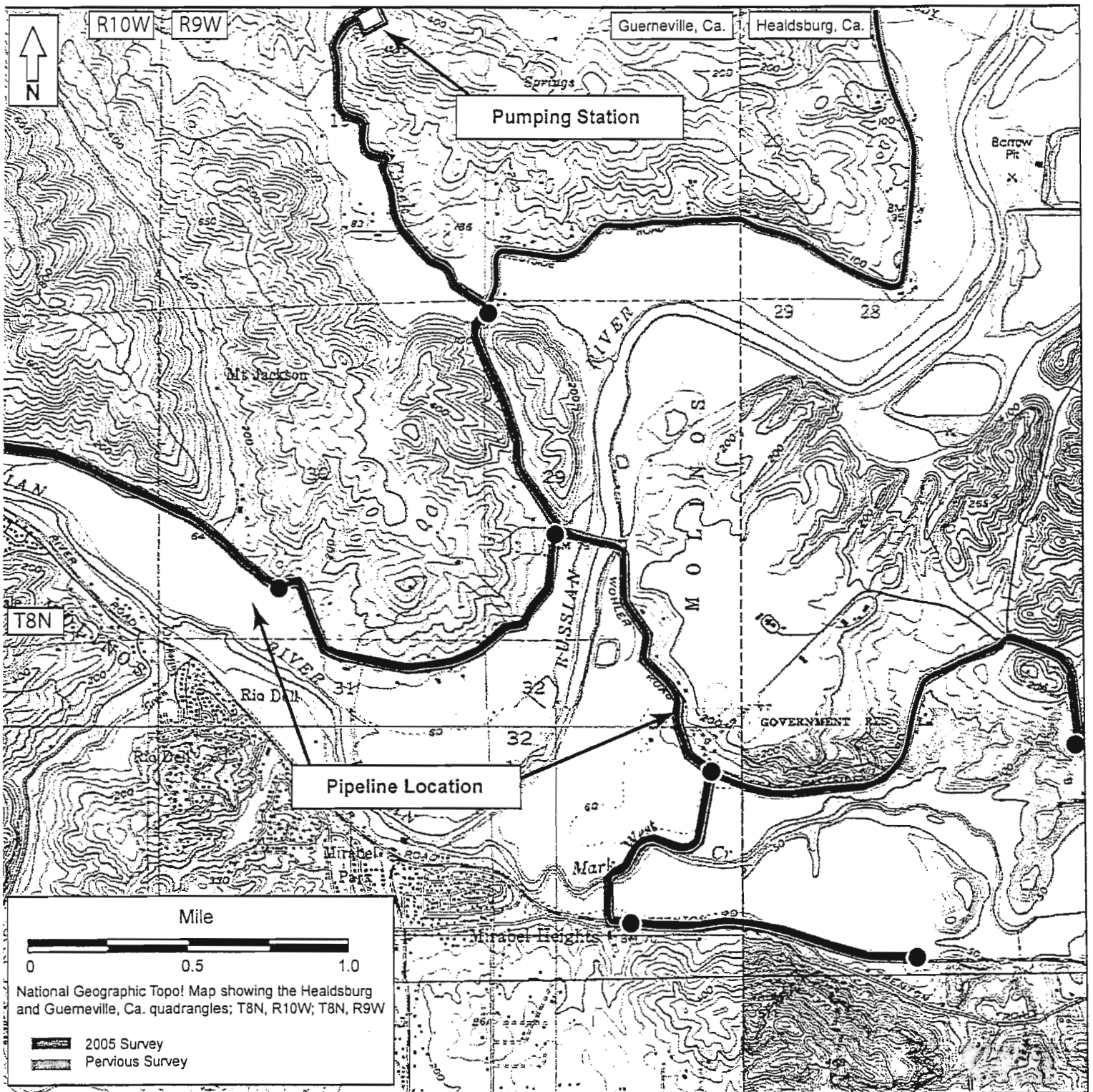


Figure 3.6. Survey Map of Russian River Valley Area Pipelines

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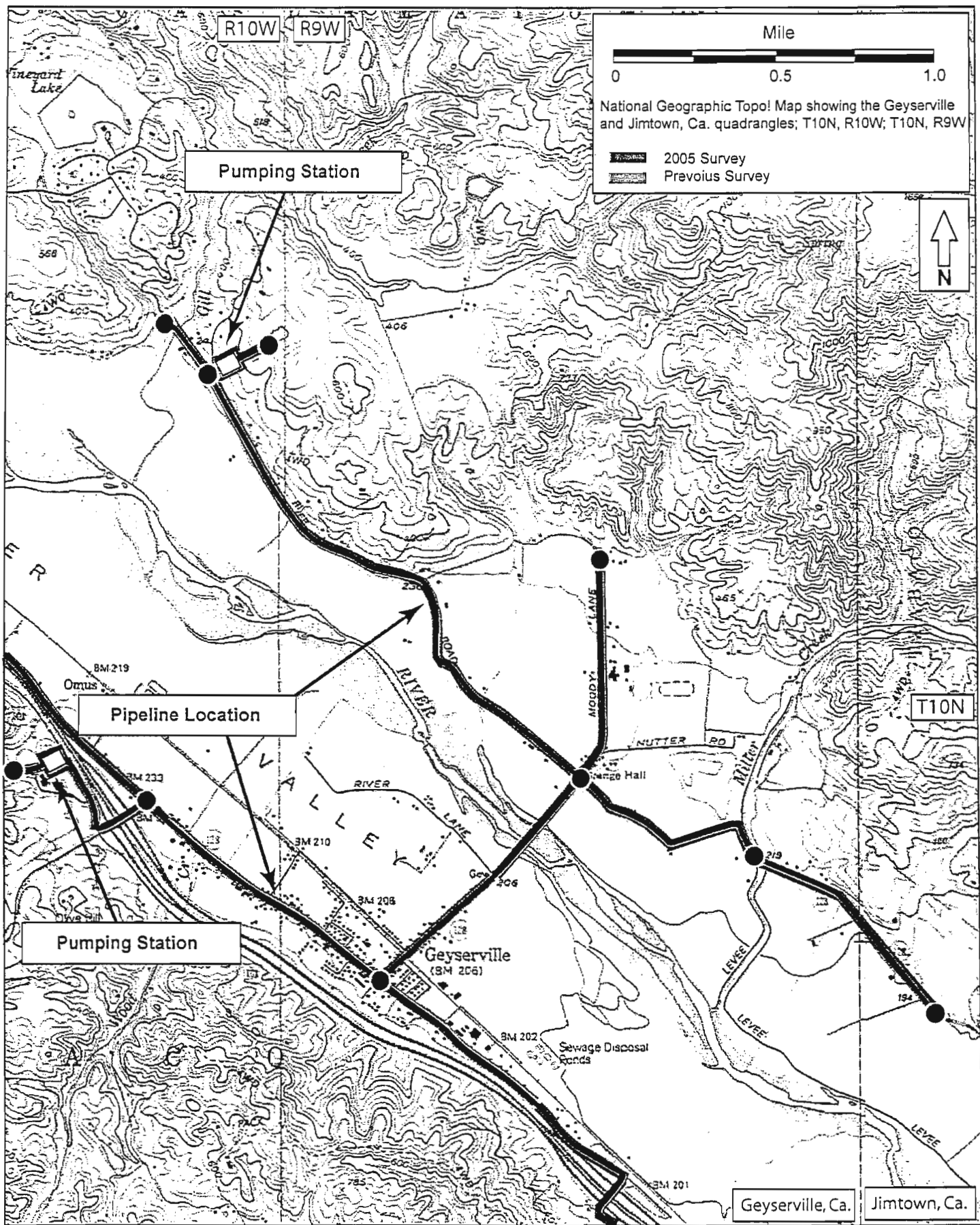


Figure 3.8. Survey Map of Northern Alexander Valley Area Pipelines

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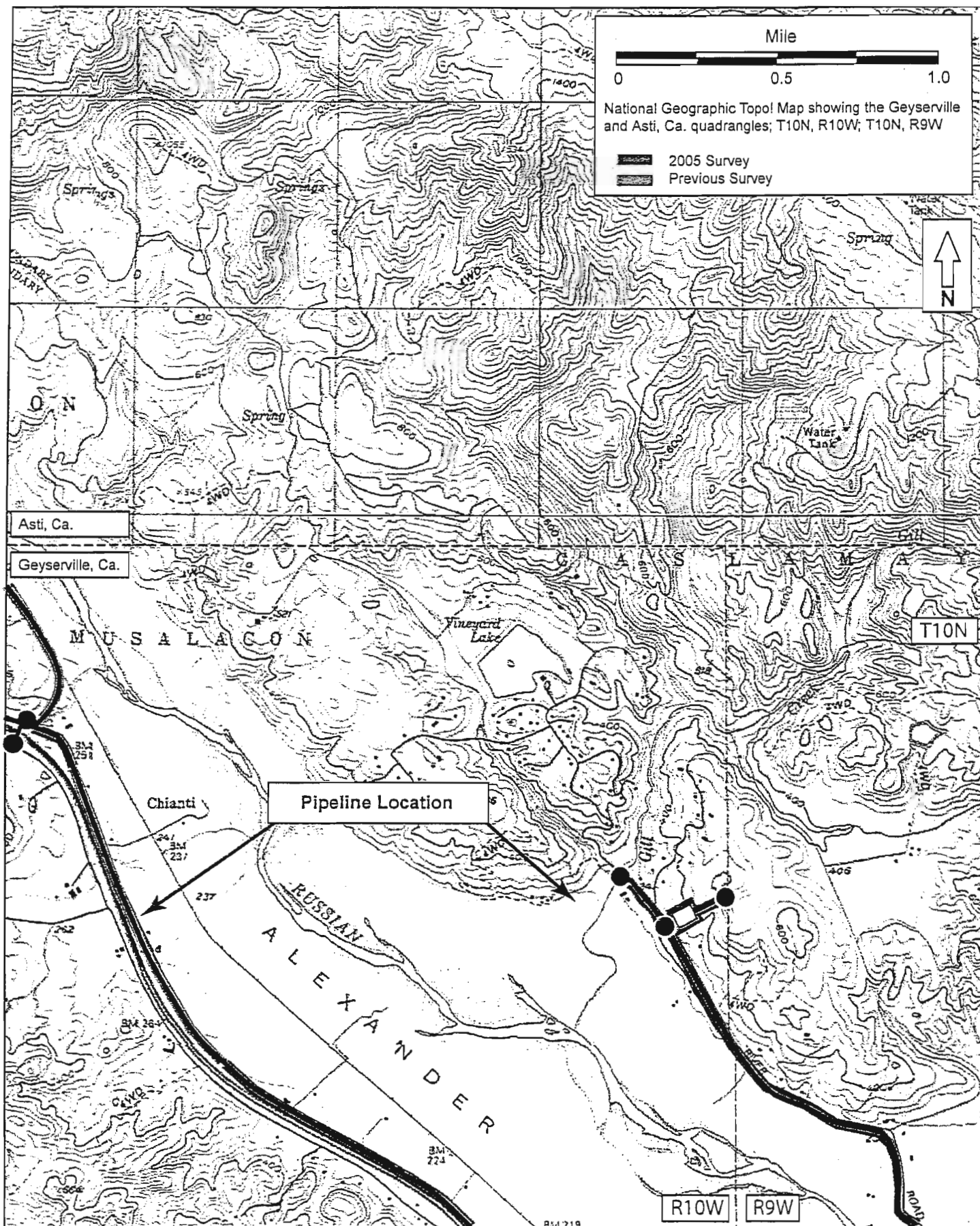


Figure 3.9. Survey Map of Northern Alexander Valley Area Pipelines

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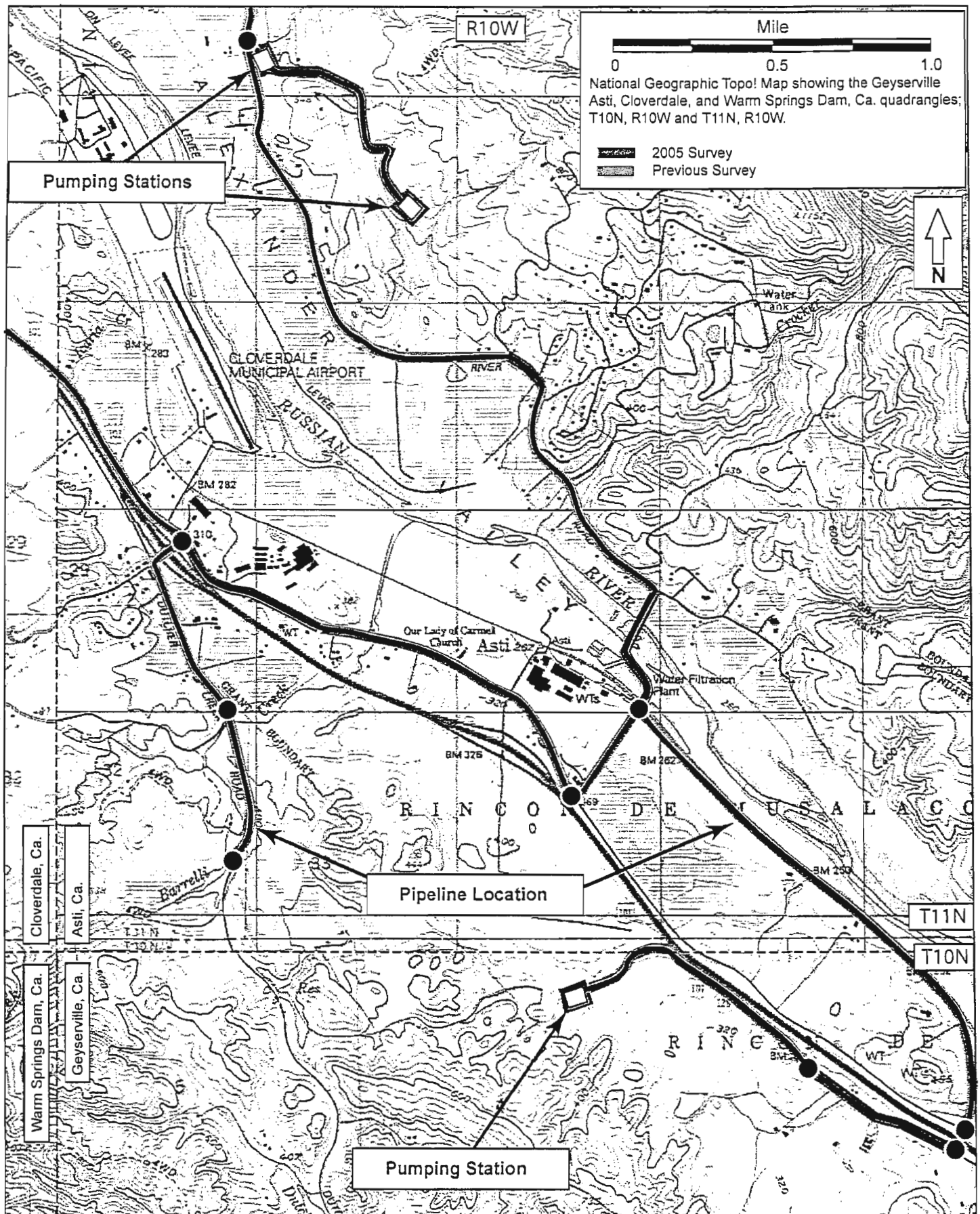


Figure 3.10. Survey Map of Northern Alexander Valley Area Pipelines

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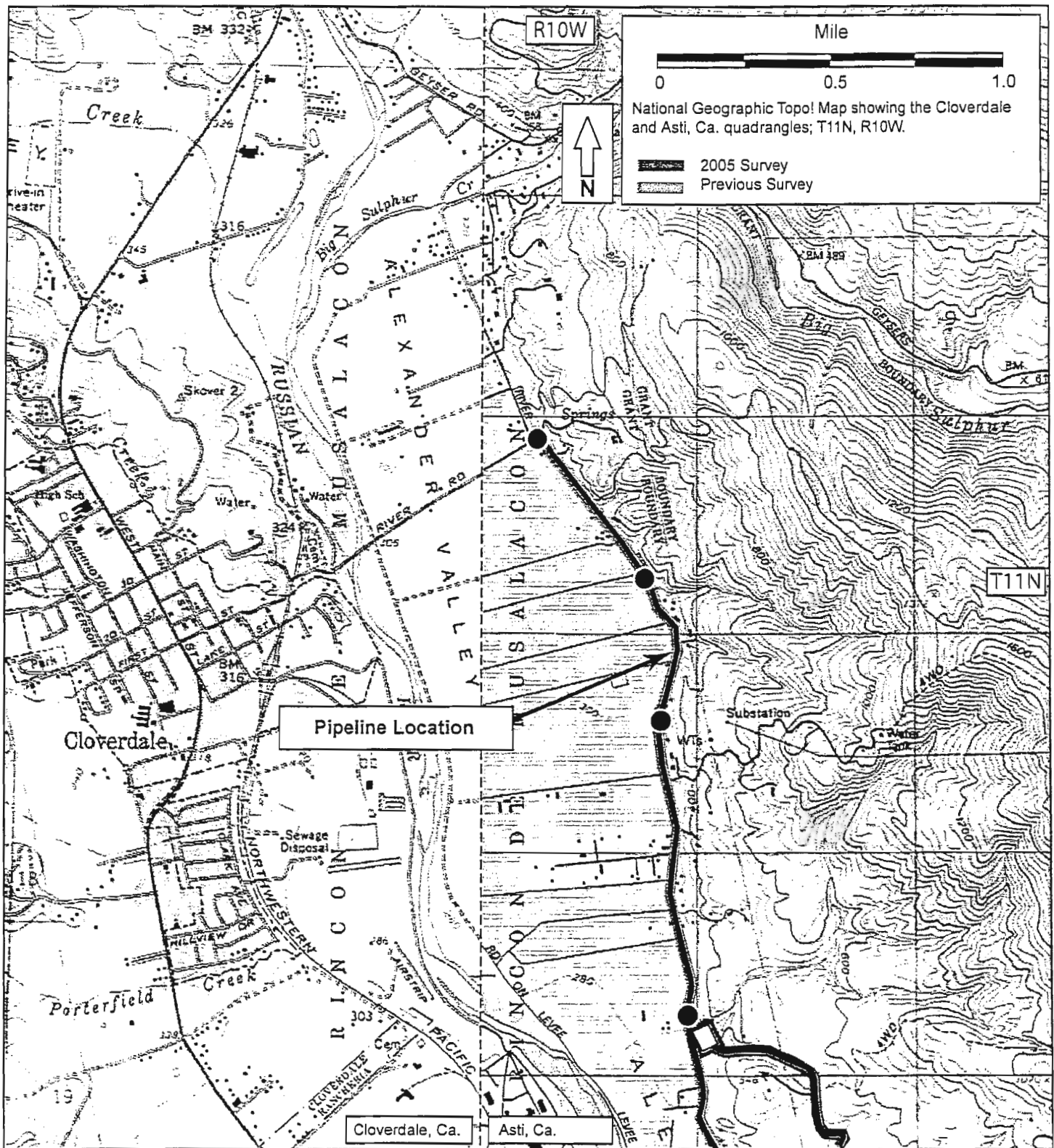


Figure 3.11. Survey Map of Northern Alexander Valley Area Pipelines

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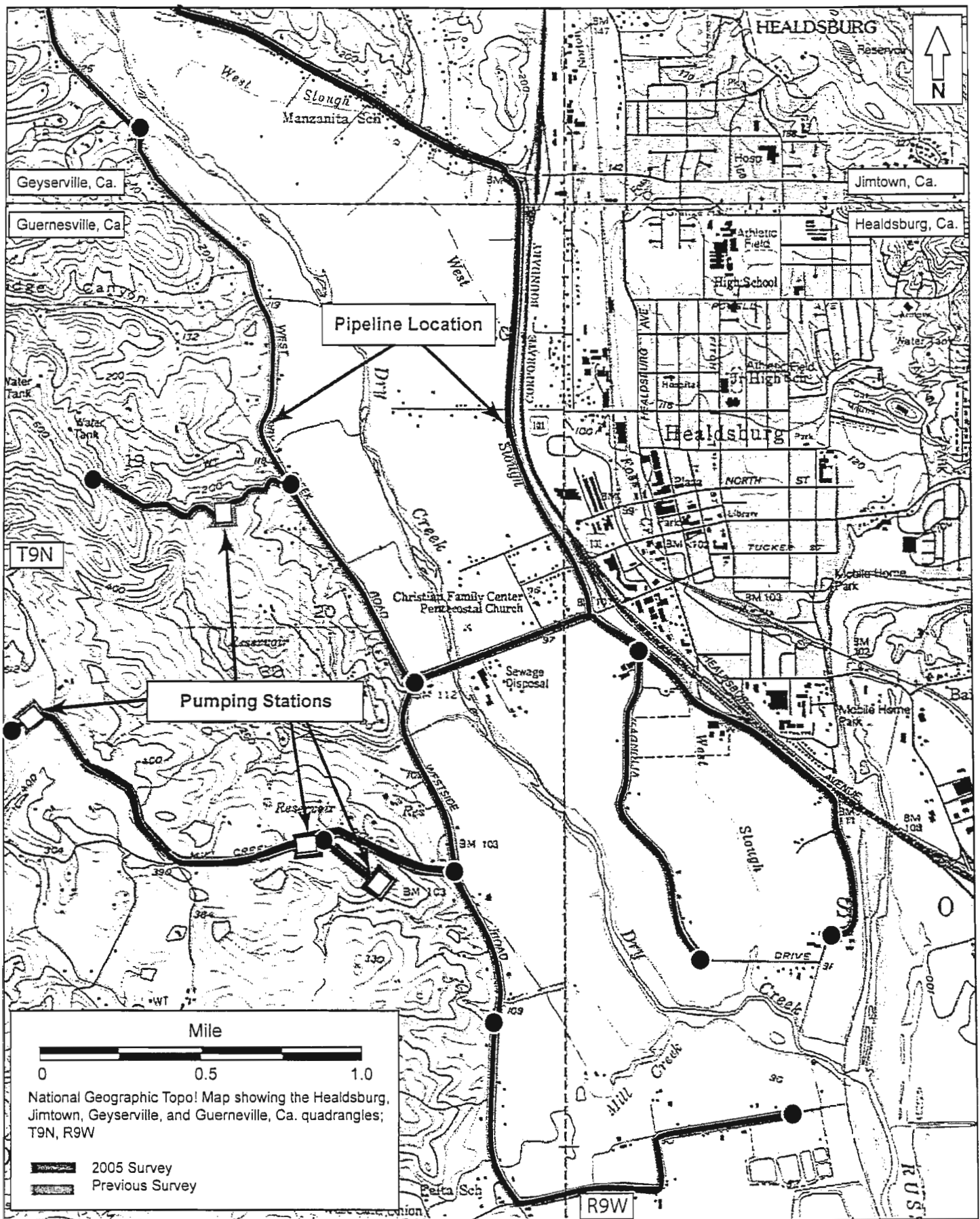


Figure 3.12. Survey Map of Dry Creek Valley Area Pipeline

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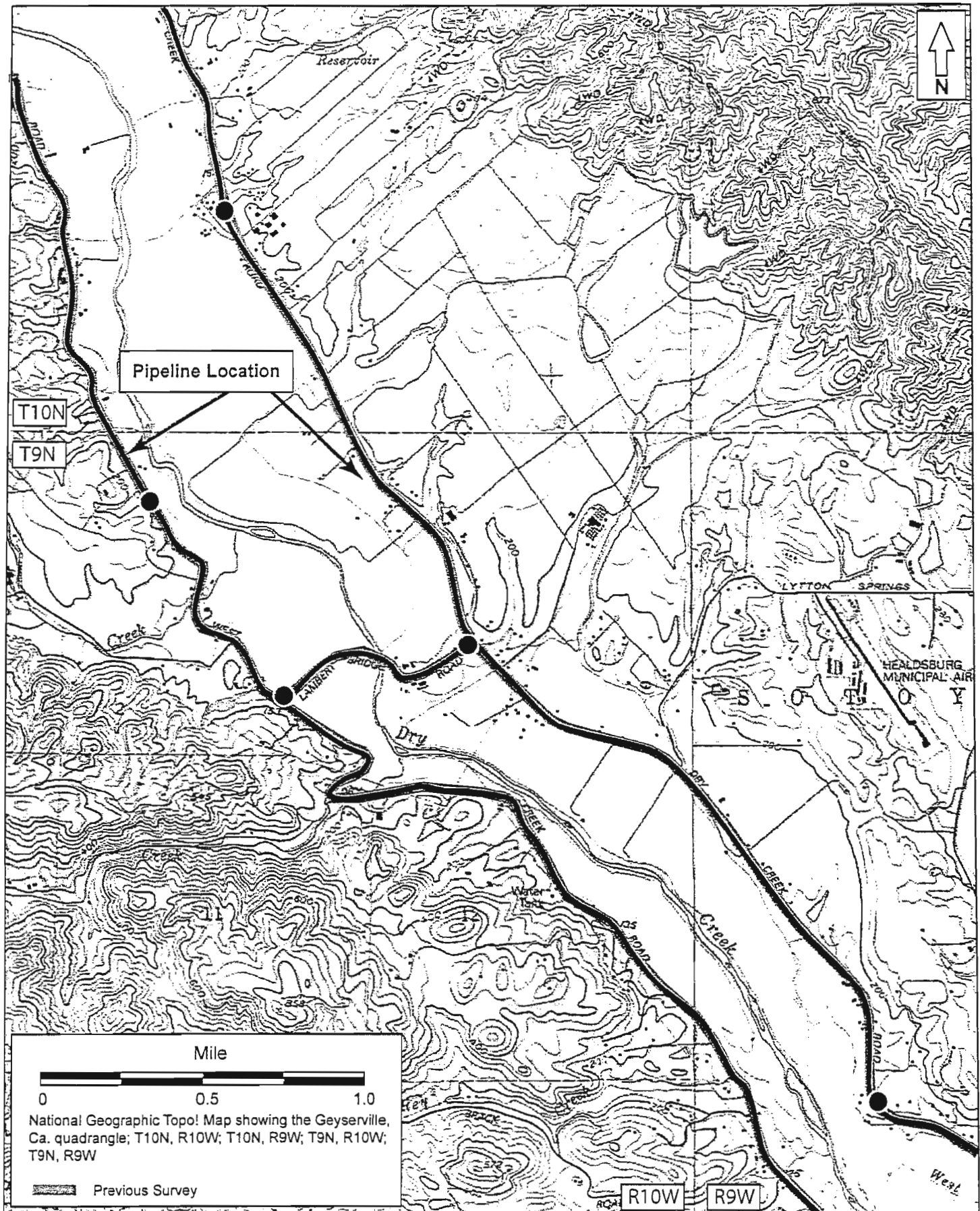
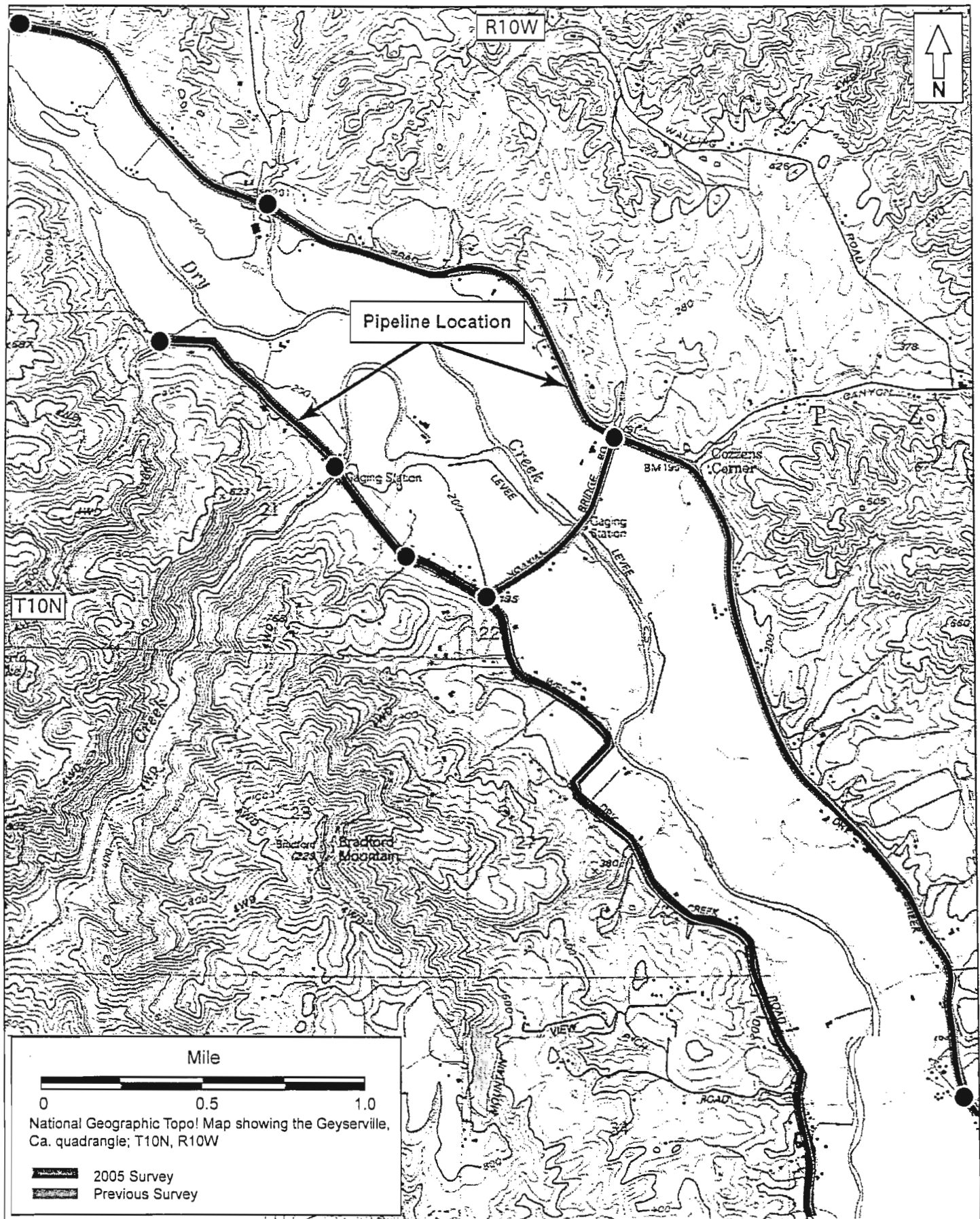


Figure 3.13. Survey Map of Dry Creek Valley Area Pipeline
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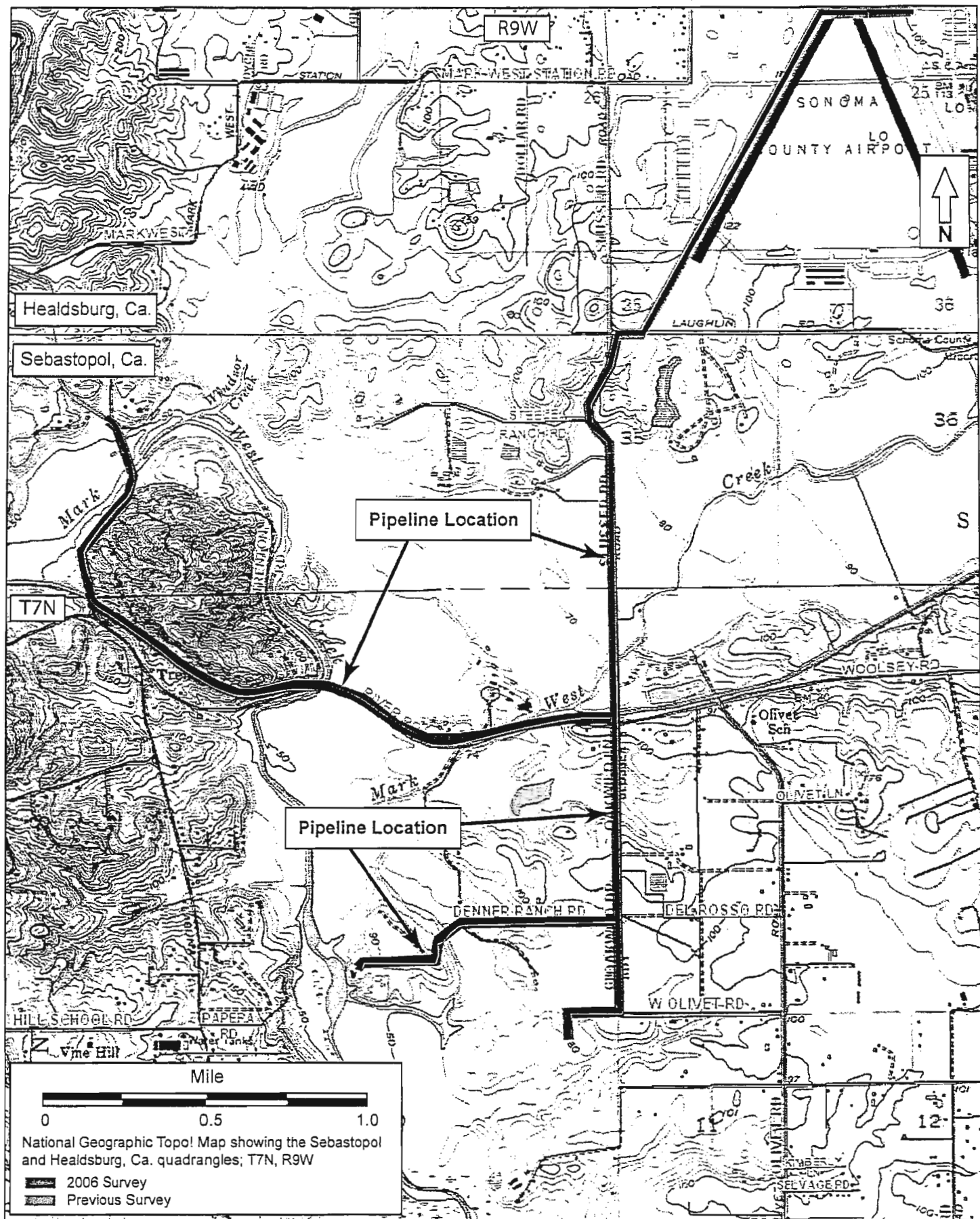


Figure 3.15. Survey Map of Denner Ranch Area Pipeline

Map 3.16. Survey Map of Alexander Valley Floor Proposed Jordan A & C Reservoirs

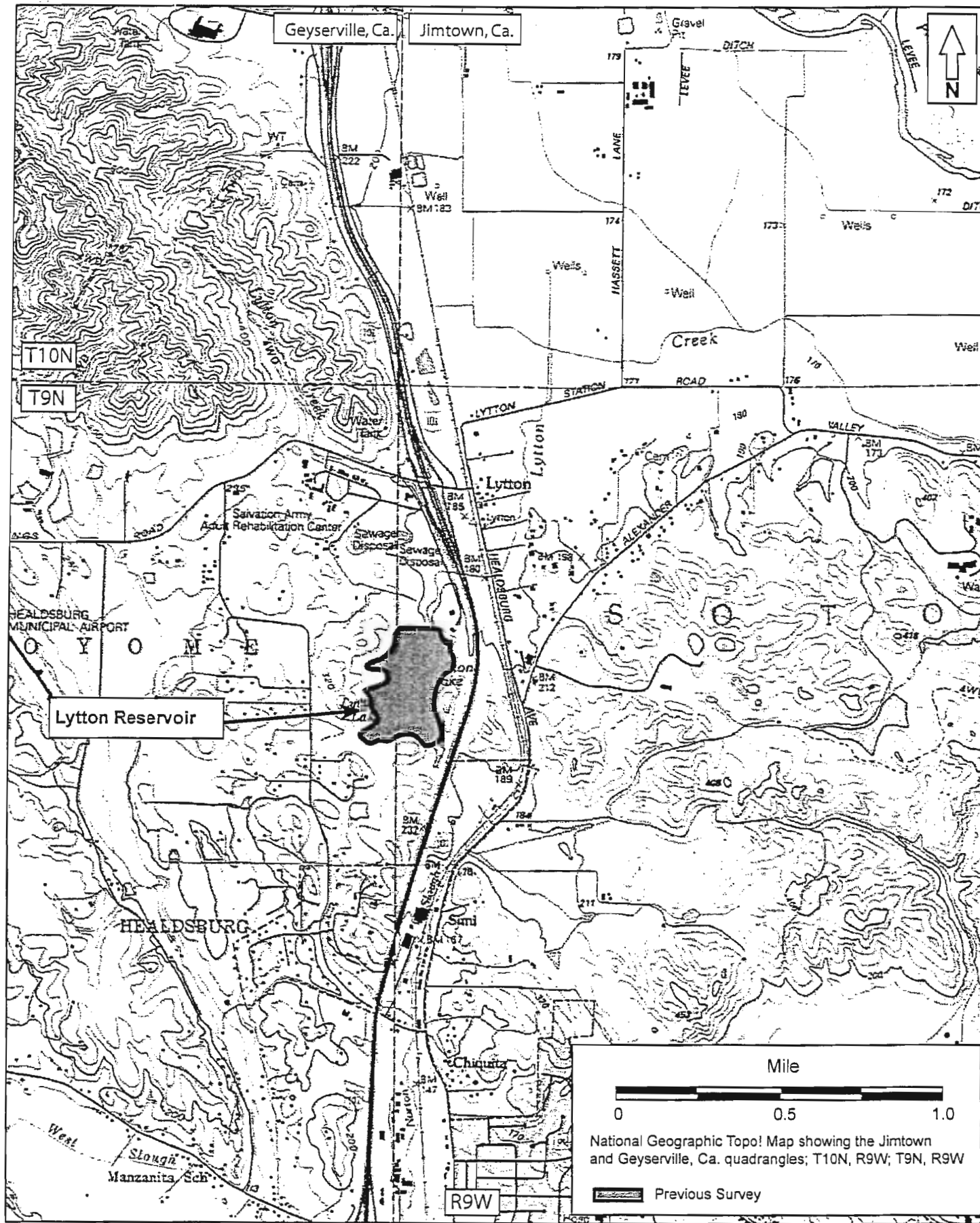


Figure 3.17. Survey Map of Alexander Valley Floor Possible Enlargement of Lytton Reservoir

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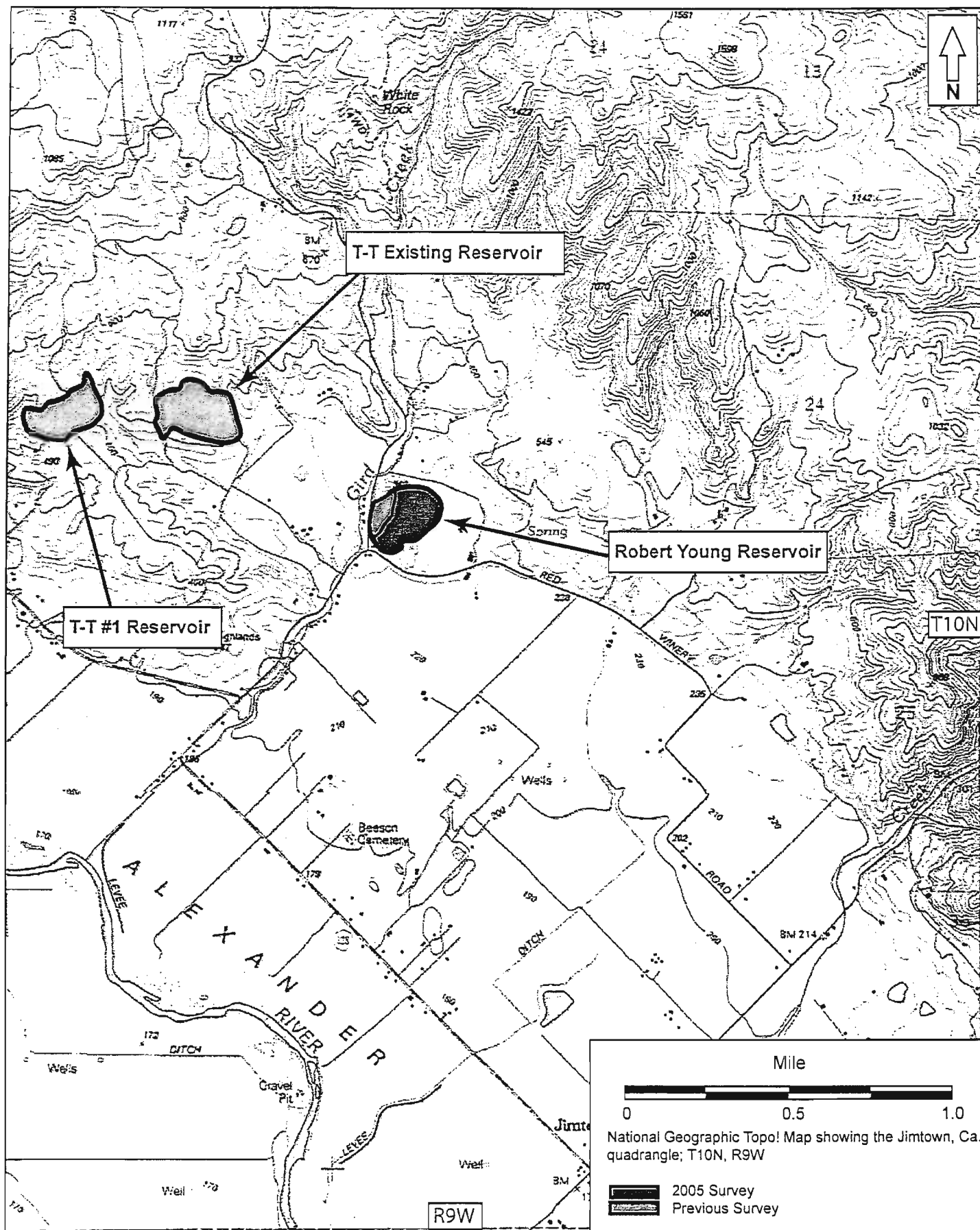


Figure 3.18. Survey Map of Alexander Valley Floor & Bench Robert Young, T-T Existing, and T-T #1 Reservoirs
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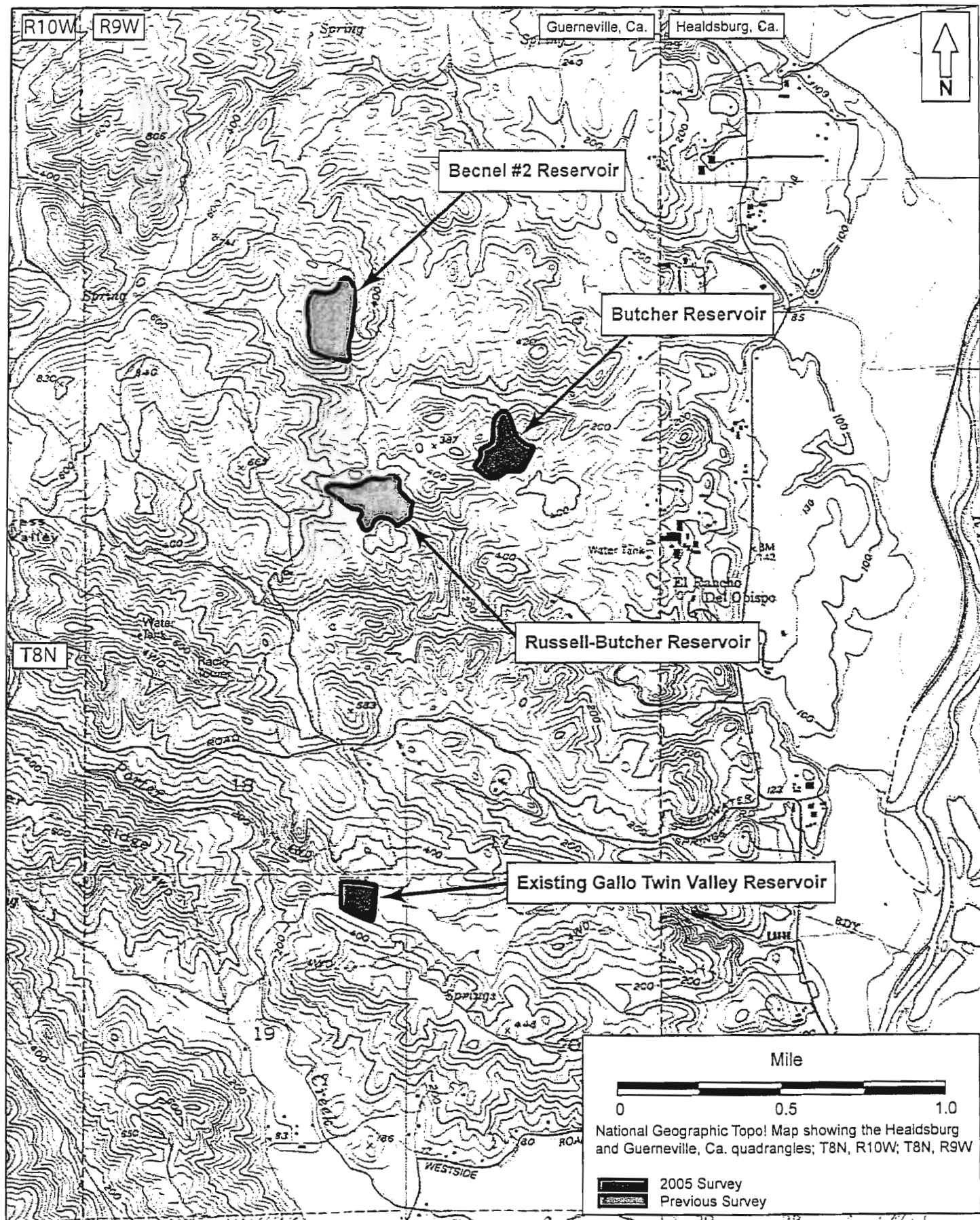


Figure 3.19. Survey Map of Proposed Becnel #2, Butcher, Russell-Butcher, and Existing Gallo Twin Valley Reservoirs
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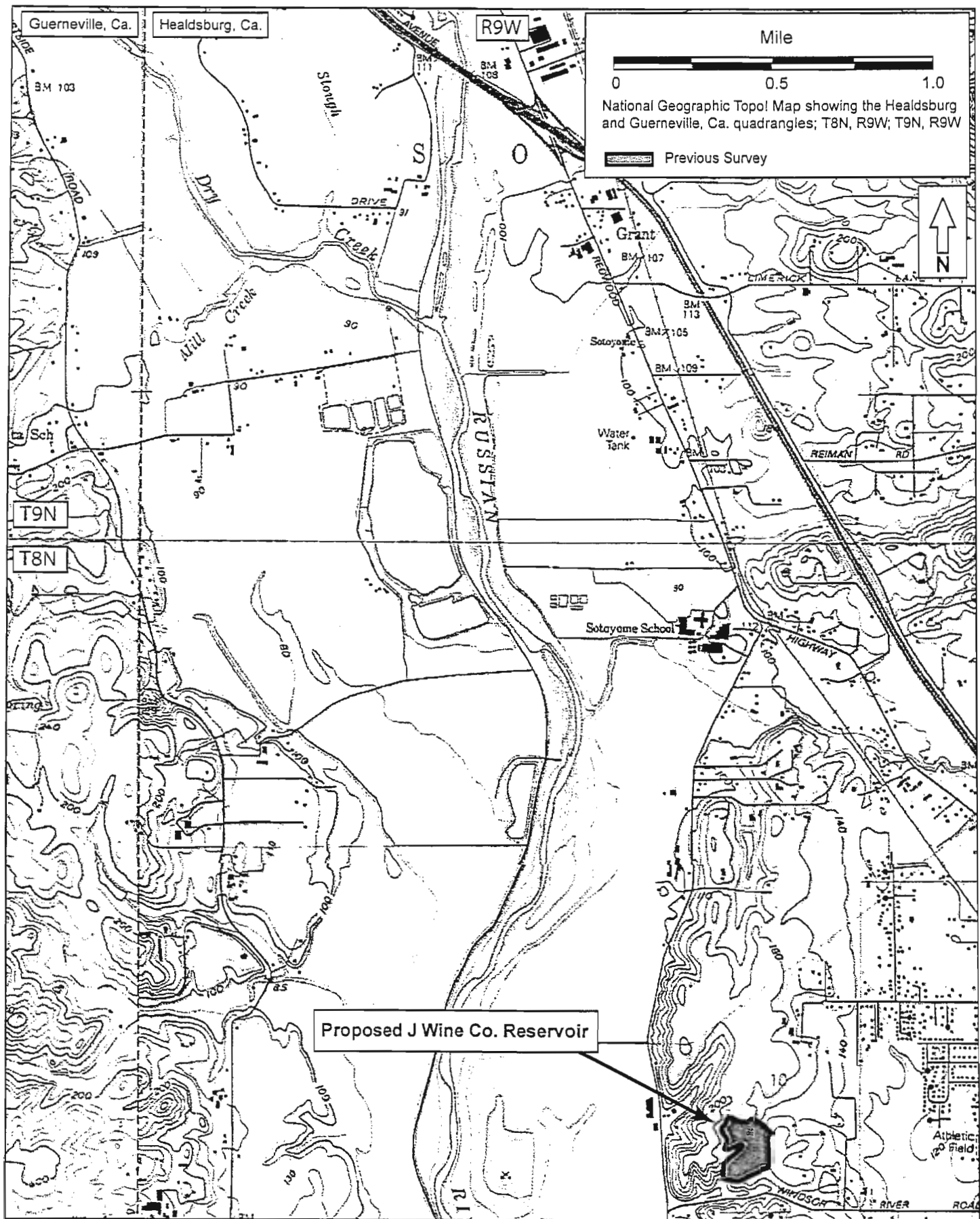


Figure 3.20. Survey Map of Proposed J Wine Co. Reservoir
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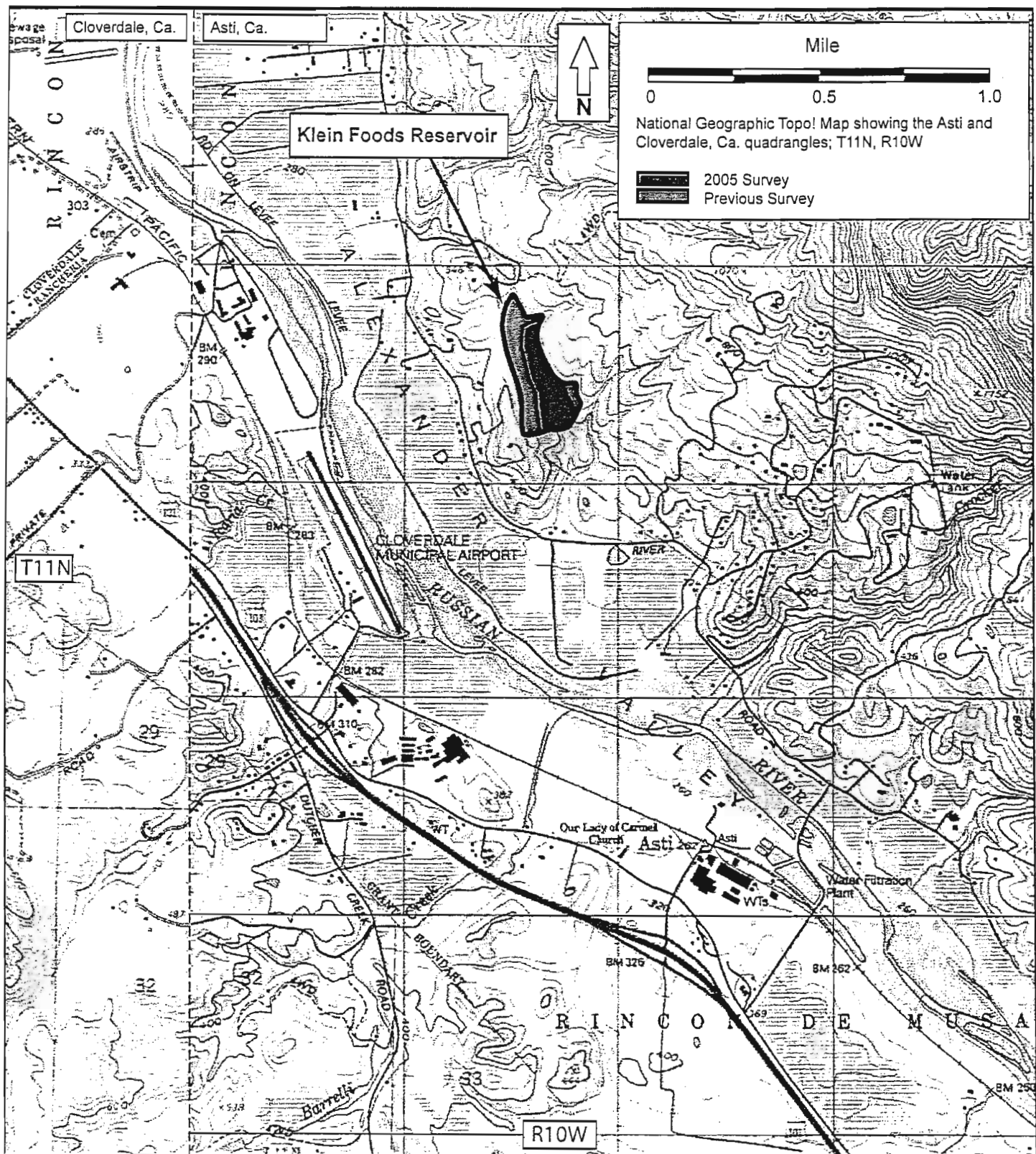


Figure 3.22. Survey Map of Klein Foods Reservoir
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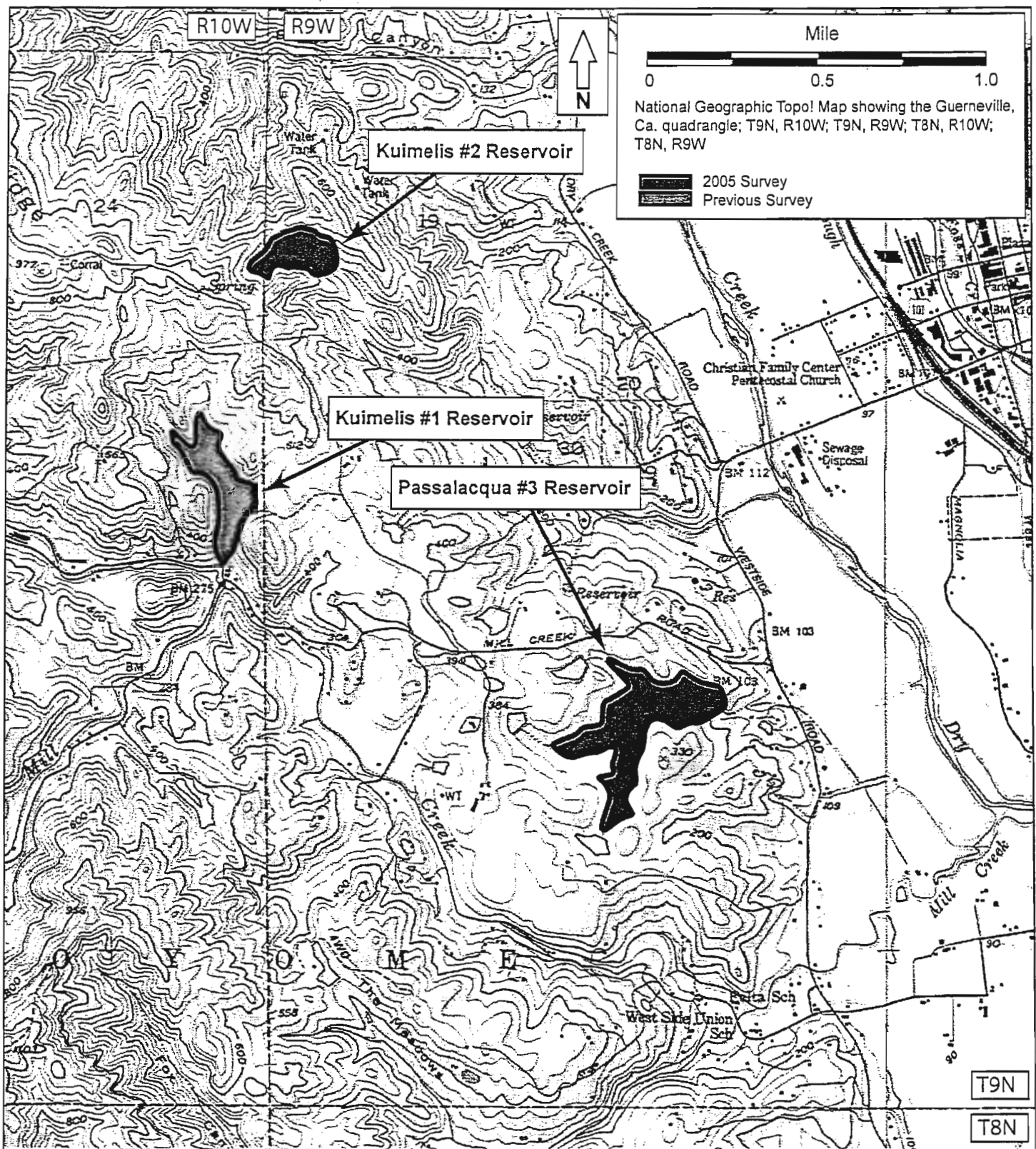
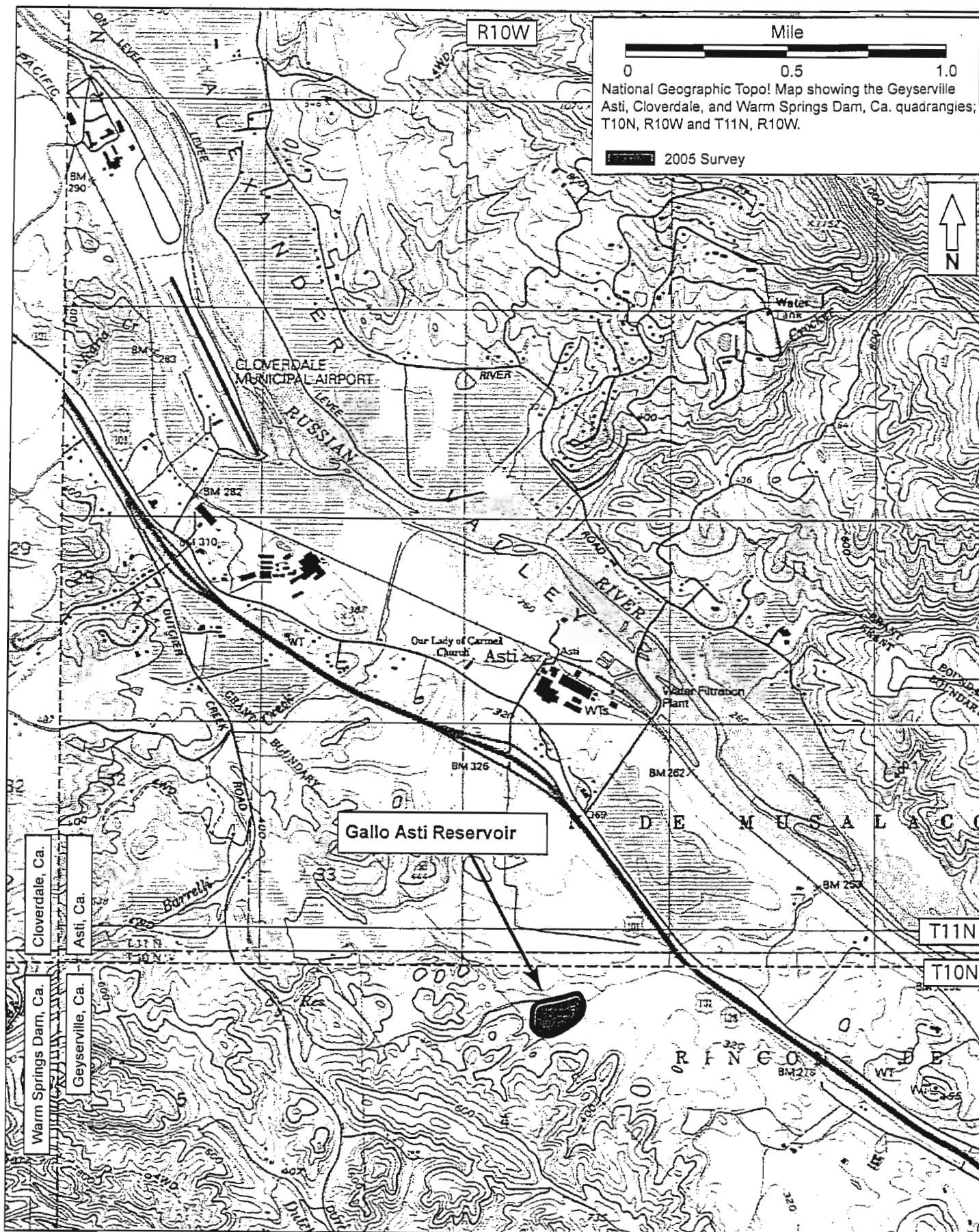


Figure 3.23. Survey Map of Passalacqua #3, Kuimelis #1, and Kuimelis #2 Reservoirs

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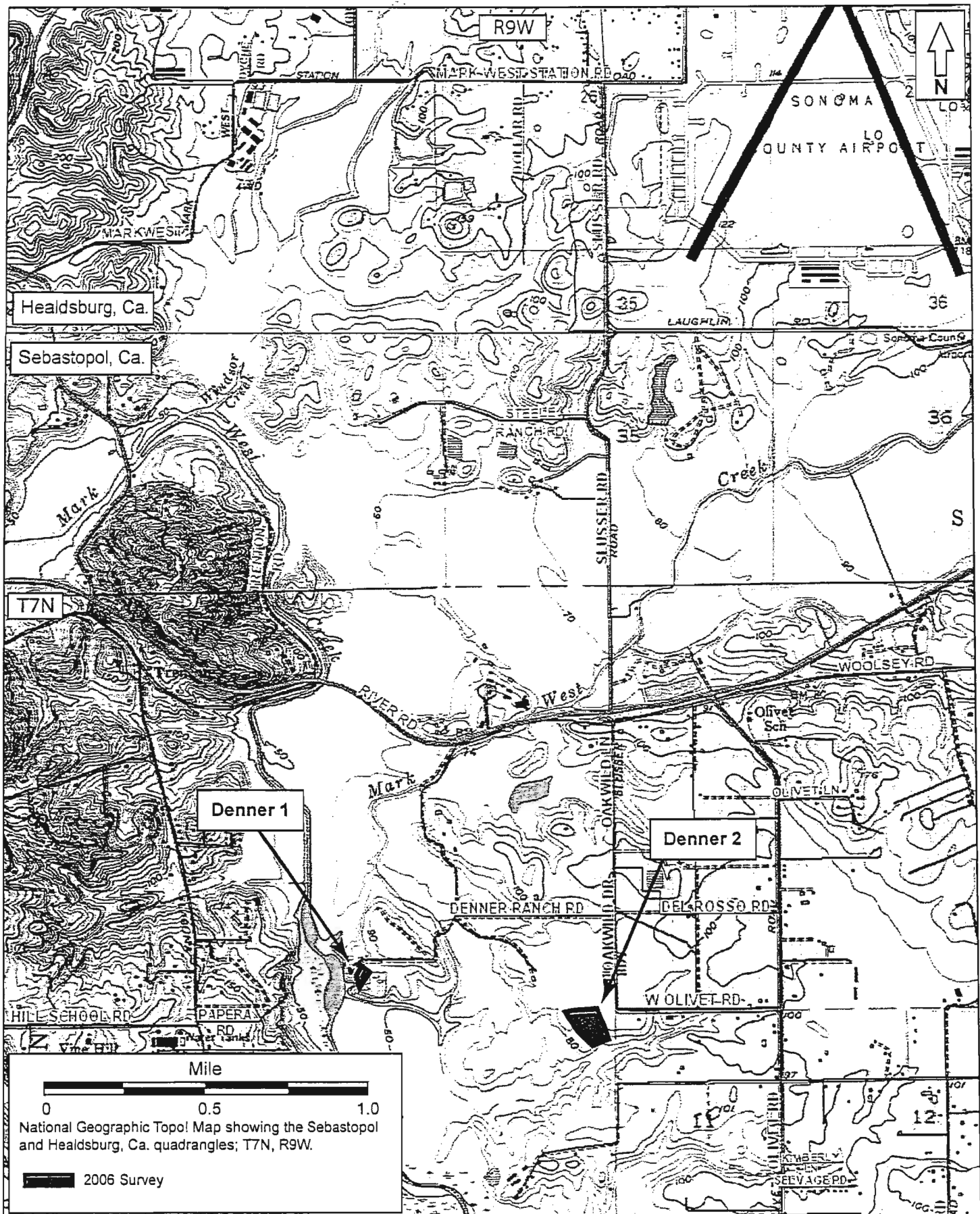


Figure 3.25. Survey Map of Denner Ranch Area Reservoirs

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