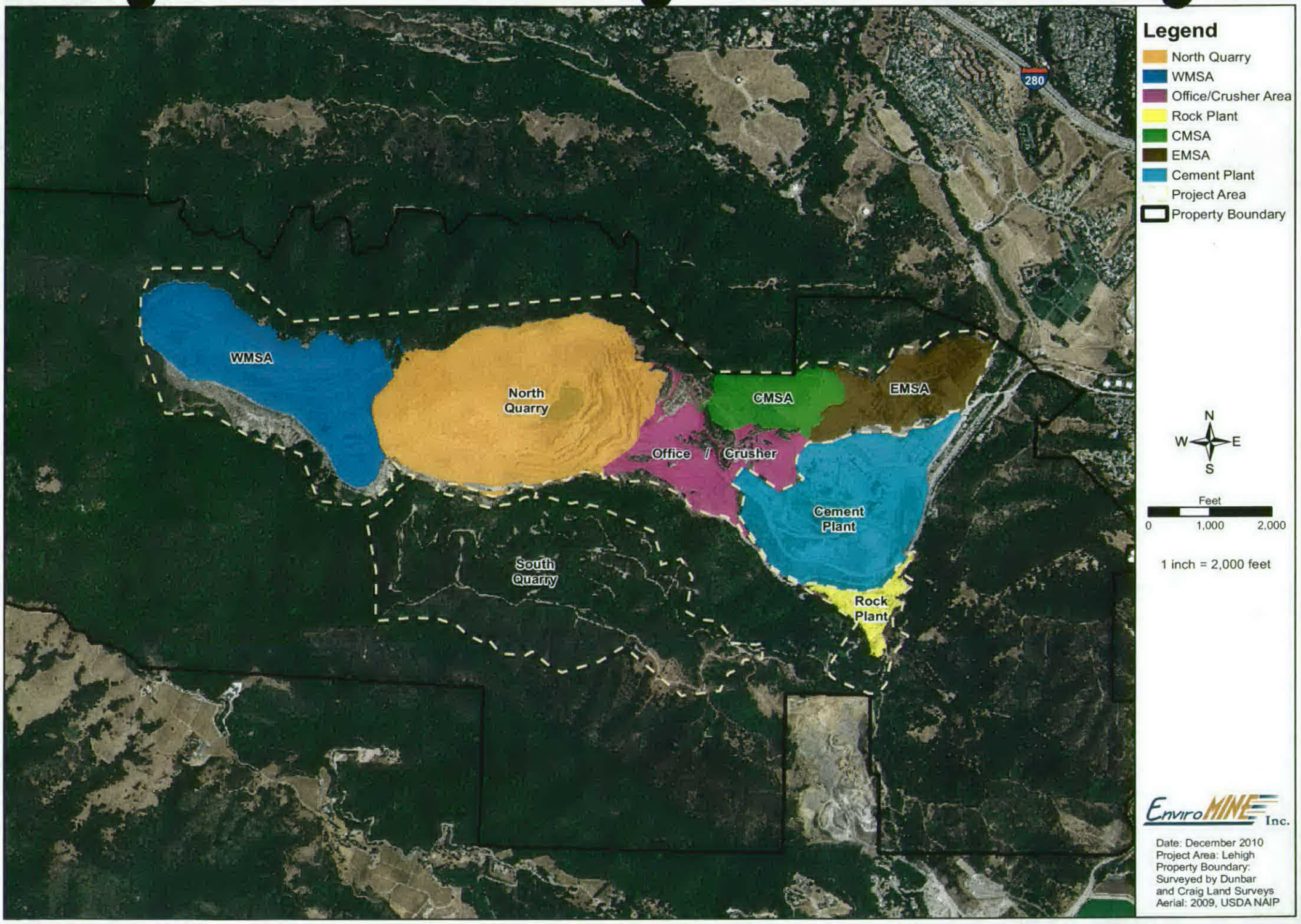
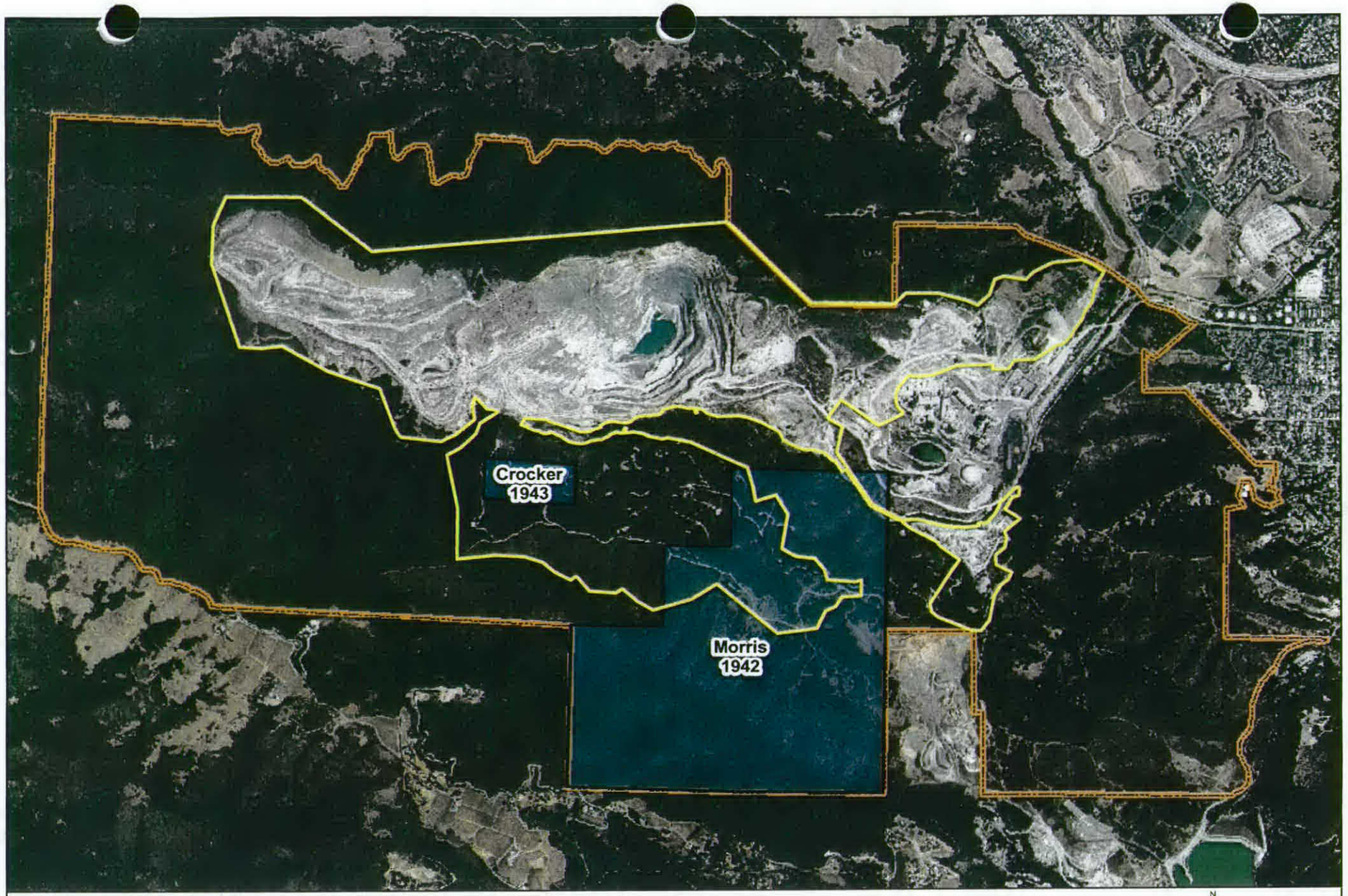
Appendix ES:
Executive Summary

Appendix ES: Executive Summary

No.	Document
1.	Site Layout Map
2.	Morris Parcel and Crocker Parcel Location Map
3.	Morris Parcel and Crocker Parcel Deeds
4.	1939 – 2009 Aerial Photographs of Property
5.	Tolman, C.F., "Report on Tonnage and Composition of Limestone Available in Proposed Quarries A and B, Permanente Corporation, and Superficial Residuary Clay on the Property of the Permanente Corporation, Santa Clara County, California", Stanford University, dated June 19, 1939
6.	Mathieson, Elizabeth, "Geology of the Permanente Property, Kaiser Cement Corporation, Permanente, California", dated May 28, 1982
7.	Crocker Parcel Historic Drilling Map
8.	Morris Parcel Access Road Map
9.	Crocker Parcel Roads Map
10.	EMSA Parcel Map
11.	1941 – 2009 Aerial Photographs of EMSA
12.	EMSA Historic Progression Photograph

Site Description





EnviroMINE Inc.

Date: December 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

PERMANENTE QUARRY
SOUTH QUARRY USE PERMIT

N
W E
S

Feet
0 1,000 2,000
1 inch = 2,000 feet

1103-591

All things now or hereafter in any manner affixed to said real estate or its improvements for any purpose shall be deemed a part of the realty.

It is expressly agreed that the trusts created hereby are irrevocable by the trustor.

All words used in this instrument, including the words "trustor", "trustees" and "beneficiary" shall be construed to include the plural as well as the singular number, and words used therein in the present tense shall include the future as well as the present, and words used in the masculine gender shall include the feminine and neuter.

The trustor herein hereby requests that a copy of any notice of default and any notice of sale hereunder be mailed to him at the address given hereunder.

In witness whereof the trustor has executed these presents.

Trustor's address:
5455 Club Drive, San Jose, California C.D.Pond
5455 Club Drive, San Jose, California Elsie M.Pond

STATE OF CALIFORNIA(
COUNTY OF SANTA CLARA(SS On this 6th day of August A.D. nineteen hundred and forty two before me, C.J.Cordone, a Notary Public in and for said County of Santa Clara, residing therein, duly commissioned and sworn, personally appeared C.D.Pond and Elsie M.Pond, his wife, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that they executed the same.

In witness whereof I have hereunto set my hand and affixed my official seal at my office in the said County of Santa Clara, the day and year in this certificate first above written.

(NOTARIAL SEAL) C.J.Cordone, Notary Public in and for the County of Santa Clara, State of California.

FILING NO.254733

Filed for record at the request of San Jose Abstract & Title Insurance Co. Aug 6 1942 at 52 min past 11 o'clock A.M.

CHAS.A.PAYNE RECORDER
M.W.Emlen Deputy Recorder

fee 4.00 33f
compared doc. compared book

DEED

$16.50 Blanche M.Rouleau Morris, a widow, formerly Blanche M.Rouleau, under which name she acquired title, the first party hereby grants to The Permanente Corporation, a corporation, the second party, all that real property situated in the City and County of San Francisco Santa Clara, State of California, and bounded and described as follows:

Parcel 1:

The northeast 1/4; lots 5, 6, 7, 8, 9, 10, 11 and 12; all in section 20, Township 7 south, range 2 west, Mt.Diable Base and Meridian.

Parcel 2:

(a) Beginning at a 3" x 3" redwood post at the center of section 20, Township 7 south, range 2 west, M.D.M., from which bears a live oak 8 inches in diameter N.21° 10' E. 195 links a live oak 2 inches in diameter N. 85 1/2° W. 174 links; thence along the line between the northwest 1/4 and the northeast 1/4 of section 20 N.15.95 chains to a 3" x 3" post set on the north slope of ridge; thence W.15.95 chains to a 3" x 3" post set on the south slope of ridge; thence S. 15.95 chains to the line between the northwest 1/4 and the southwest 1/4 of said section 20; thence east along said line 15.95 chains to place of beginning, being a portion of lot 4 in said section 20.

(b) Beginning at a post on the line between the NW 1/4 and the northeast 1/4 of Section 20, Township 7 south, range 2 west, M.D.M., distant thereon W.15.95 chains from the center of Section 20; and running thence N.300 feet; thence W. 15.95 chains to a point; thence S. 300 feet to a point; thence E. 15.95 chains to the point of beginning; being a portion of the northwest quarter of said section 20.

In witness whereof the said first party has executed this conveyance this 30th day of July 1942.

Blanche M.Rouleau Morris

STATE OF CALIFORNIA
CITY AND COUNTY OF SAN FRANCISCO(SS On this 30th day of July in the year one thousand nine hundred and nineteen forty two before me, Emi Eggers Del Bono, a Notary Public in and for said City and County, residing therein, duly commissioned and sworn, personally appeared Blanche M.Rouleau Morris a widow, formerly Blanche M.Rouleau known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same.

In witness whereof I have hereunto set my hand and affixed my official seal in said City and County of San Francisco, the day and year in this certificate first above written.

(NOTARIAL SEAL) Emi Eggers Del Bono, Notary Public in and for said City and County of San Francisco, State of California.

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1153-10

The trustor hereby requests that a copy of any notice of default and a copy of any notice of sale under this deed of trust be mailed to trustor at the address given hereinafter.

IN WITNESS WHEREOF, the trustor has executed these presents.

The address of said Trustor is: Signature of Trustor
703 Addison, Palo Alto, Dorothy Geddes
703 Kingsley, Palo Alto, Effie Geddes
California

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA)SS. On this 1[illegible] day of July, nineteen hundred and forty-three, before me, J.C. Freedman, a Notary Public in and for said County of Santa Clara, residing therein, duly commissioned and sworn, personally appeared Dorothy Geddes and Effie Geddes, known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, in the County of Santa Clara, the day and year in this certificate first above written.

J.C. Freedman, Notary Public in and for the County of Santa Clara, State of California
(NOTARIAL SEAL)

My commission expires June 12, 1945

FILING NO. 281600 Filed for record at the request of San Jose Abstract & Title Insurance Co., Jul 15 1943 at 16 min. past 2 o'clock P.M.

CHAS. A. PAYNE, RECORDER
J.H. Thomas, Deputy Recorder
Fee 2.60 [illegible] compared book
compared doc. [illegible]

IPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIPIP

1.10 322915

DEED

THIS INDENTURE, made the 2nd day of July, 1943, between William L. McLaine and C.H. Lamberton, as Executors of the last will and testament of Mary Ives Crocker, deceased, the Grantors, and Permanente Cement Company, the grantee;

WITNESSETH: That whereas, said Mary Ives Crocker was on the date of her death the owner of that certain parcel of land hereinafter described; and

WHEREAS, the Grantors did thereafter file in the Superior Court of the State of California, in and for the City and County of San Francisco in the probate proceeding entitled In the Matter of the Estate of Mary Ives Crocker, deceased, their Return on the sale of said land, and their Petition for Confirmation thereof; and

WHEREAS, the said court did by its decree duly given and made on the 28th day of June, 1943, duly confirm said sale;

NOW, THEREFORE, in consideration of the sum of Seven Hundred dollars ($700.00) lawful money of the United States to them in hand paid by the Grantee, receipt of which is hereby acknowledged, the said Grantors do hereby grant unto the said grantee, that certain real property situate, lying and being in the County of Santa Clara, State of California, and more particularly described as the north half of the northeast quarter of the northeast quarter of Section 19, Township 7 South, Range 2 West, Mount Diablo Base and Meridian, and containing therein, according to the official survey of said Section 19, 20 acres more or less.

TO HAVE AND TO HOLD unto said grantee, its successors and assigns forever, reserving nevertheless, to the said grantors as such executors, all oil, gas and mineral existing on said premises with right-of-way and other easements necessary to the commercial exploitation of any or all said oil, gas or minerals, it being understood however, that the said grantee, its successors and assigns are to be reimbursed for actual damages suffered through operations, and it being further understood that said reservation shall last only for a period of twenty years from the date hereof, except that Grantors, their successors and assigns shall have the privilege of working to exhaustion any mine or well which is being worked at the termination of said period.

IN WITNESS WHEREOF, the said grantors have executed these premises the day and year hereinabove first written.

William L. McLaine
C.H. Lamberton, Executors of the last will and testament of Mary Ives Crocker, Deceased.

STATE OF CALIFORNIA)
CITY AND COUNTY OF SAN FRANCISCO)SS. On this 2nd day of July, in the year one thousand nine hundred and forty-three, before me, Laura E. Hughes, a Notary Public in and for the City and County of San Francisco, State of California, residing therein, duly commissioned and sworn, personally appeared C.H. Lamberton, Executor of the last will and testament of Mary Ives Crocker, deceased, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same, as such executor.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, in the City and County of San Francisco, the day and year in this certificate first above written.

Laura E. Hughes, Notary Public in and for the City and County of San Francisco, State of California
(NOTARIAL SEAL)

My commission expires March 3, 1946

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)ss. On this 7th day of July, A.D. 1943, before me, Loris C. Frazer, a Notary Public in and for said County and State, personally appeared William L.

84

Molaine, Executor of the last will and testament of Mary Ives Crocker, decd. known to me ~~(or proved to me on the oath of~~) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same, as such executor.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

(NOTARIAL SEAL)

Loris C. Frazer, Notary Public in and for said County and State.

My commission expires Mar. 10, 1947

FILING NO. 281556 Filed for record at the request of California Pacific Title Insurance Co., Jul 15 1943 at 47 min. past 11 o'clock A.M.

CHAS. A. PAYNE, RECORDER
M.W. Emlen, Deputy Recorder

fee 1.40 8 f
compared doc.
compared book

JOINT TENANCY DEED

$1.65

John Pereira and Helen Pereira, husband and wife, the first parties, hereby grant to Duane S. Loughlin and Cora E. Loughlin, his wife, the second parties, in joint tenancy, all that real property situated in the City of San Jose, County of Santa Clara, State of California, and bounded and described as follows:

Portion of Lot 4 in Block 38, as shown upon that certain Map entitled, "Map of University Grounds," which Map was filed for record in the office of the Recorder of the County of Santa Clara, State of California, on August 25, 1866 in Book A of Maps, at pages 80 and 81, and more particularly described as follows:

Beginning at the point of intersection of the southeastern line of Hamlin Street with the Northwesterly line of Chestnut Street, as said Streets are shown on the Map hereinabove referred to; running thence northeasterly along said southeastern line of Hamlin Street 100 feet; thence running southeasterly and parallel with the northeastern line of Chestnut Street 50 feet; running thence southwesterly and parallel with the southeastern line of Hamlin Street, 100 feet to a point on the northeastern line of Chestnut Street; running thence Northwesterly, along the northeastern line of Chestnut Street, 50 feet to the point of beginning.

IN WITNESS WHEREOF, the said first parties have executed this conveyance this 13th day of July, 1943.

John Pereira
Helen Pereira

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA)SS.

On this 13th day of July, in the year of one Lord one thousand nine hundred and forty-three, before me, S.T. Pereira, a Notary Public in and for said County of Santa Clara, State of California, residing therein, duly commissioned and sworn, personally appeared John Pereira and Helen Pereira, husband and wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in said County of Santa Clara, the day and year in this certificate first above written.

(NOTARIAL SEAL)

S.T. Pereira, Notary Public in and for said County of Santa Clara, State of California

My commission expires Jan. 7, 1946

FILING NO. 281558 Filed for record at the request of California Pacific Title Insurance Co., Jul 15 1943 at 49 min. past 11 o'clock A.M.

CHAS. A. PAYNE, RECORDER
M.W. Emlen, Deputy Recorder

fee 1.00 4 f
compared doc.
compared book

WHEREAS, the indebtedness secured to be paid by the Deed of Trust, executed by William C. Becker and Helen Becker, his wife, to W.L. Biebrach and W.C. Barkuloo, as Trustees, dated March 7th, 1941, and recorded in the County Recorder's office of the County of Santa Clara, State of California, in Liber 1028 of Official Records, at page 534 and following, has been fully paid;

NOW, THEREFORE, W.L. Biebrach and W.C. Barkuloo, Trustees, do hereby grant, remise, release and reconvey unto the person or persons legally entitled thereto, their heirs and assigns, without any warranty, all the estate and interest derived to said W.L. Biebrach and W.C. Barkuloo, as Trustees, by or through said deed of trust, in the lands situate in the County of Santa Clara, State of California, and therein described, together with the appurtenances. Special reference being hereby made to said Deed of Trust, and the record thereof, for a particular description of said lands.

IN WITNESS WHEREOF, we have hereunto set our hands this 12th day of July, A.D. 1943.

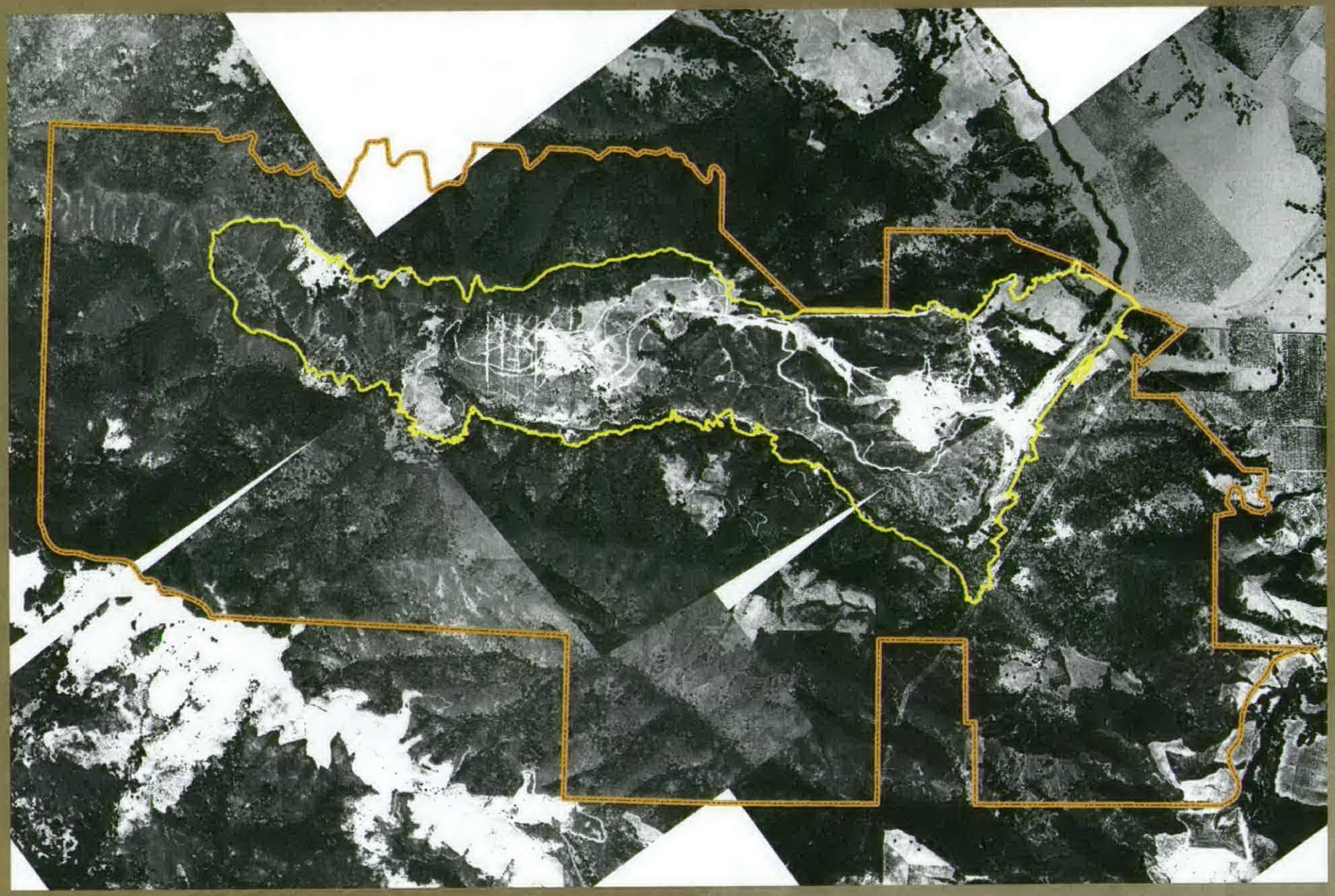
W.L. Biebrach, Trustee
W.C. Barkuloo, Trustee

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA)SS.

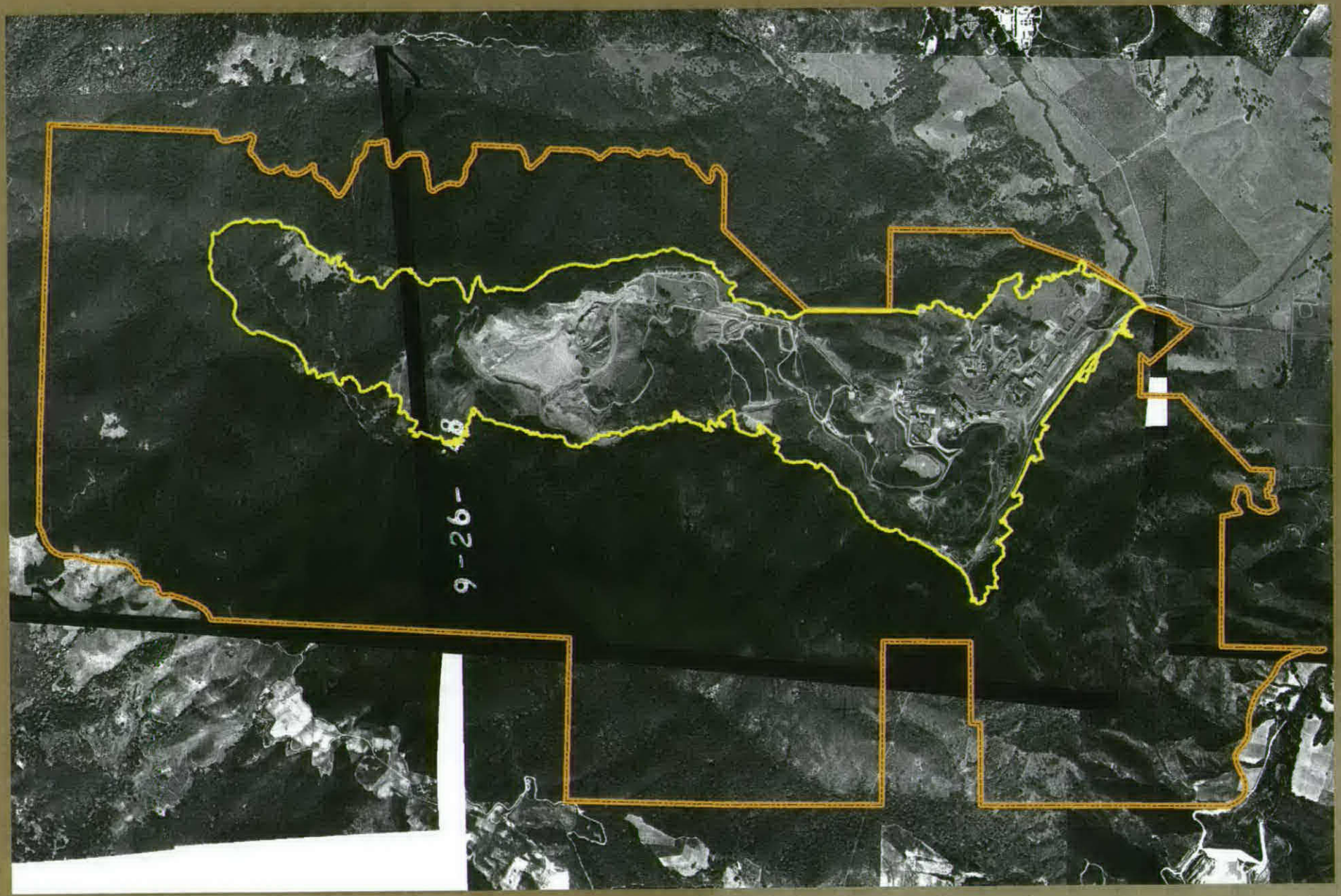
On this 12th day of July, A.D. one thousand nine hundred and forty-three, before me, Arthur C. Moore, a Notary Public in and for said County,

85

1939

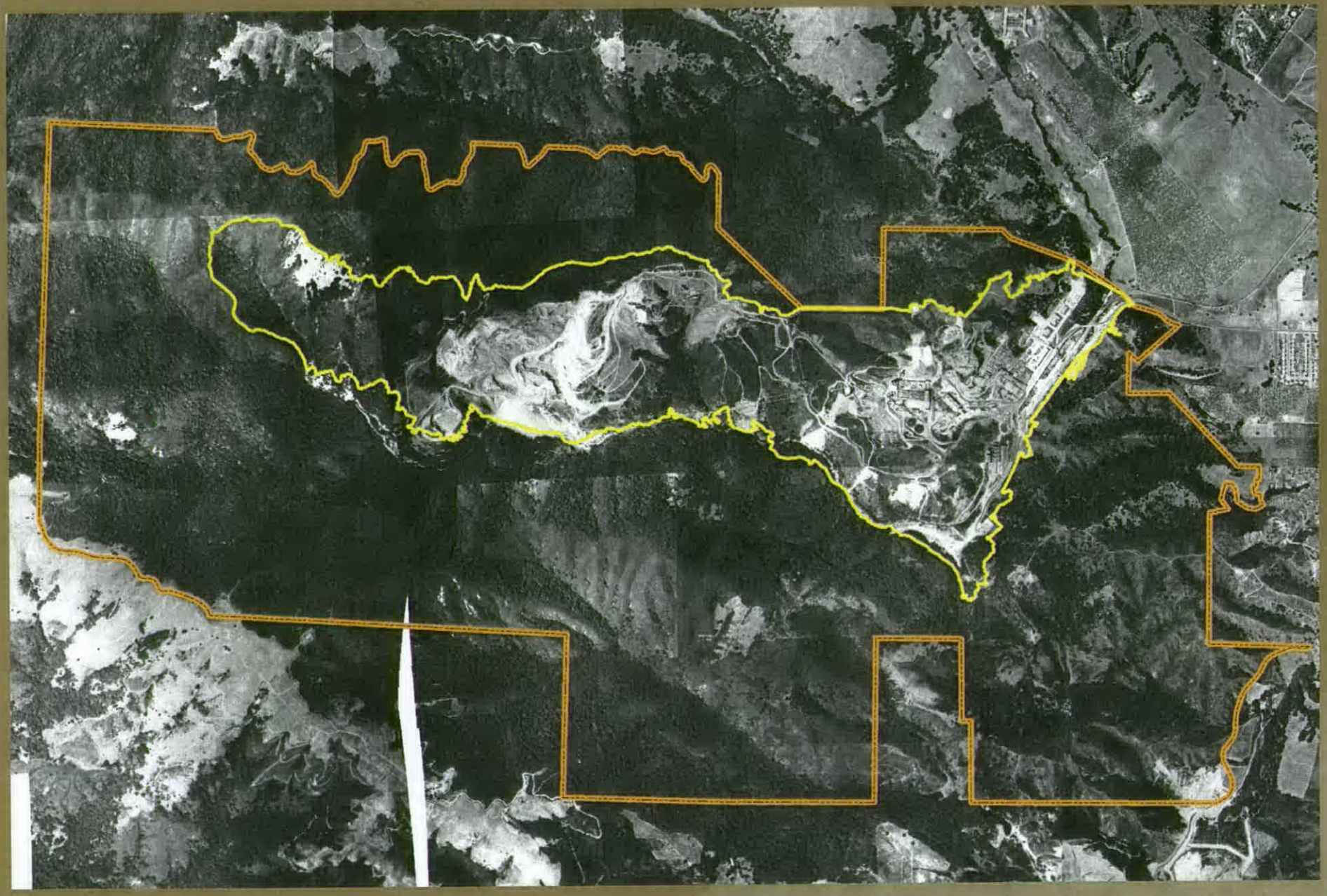


1948

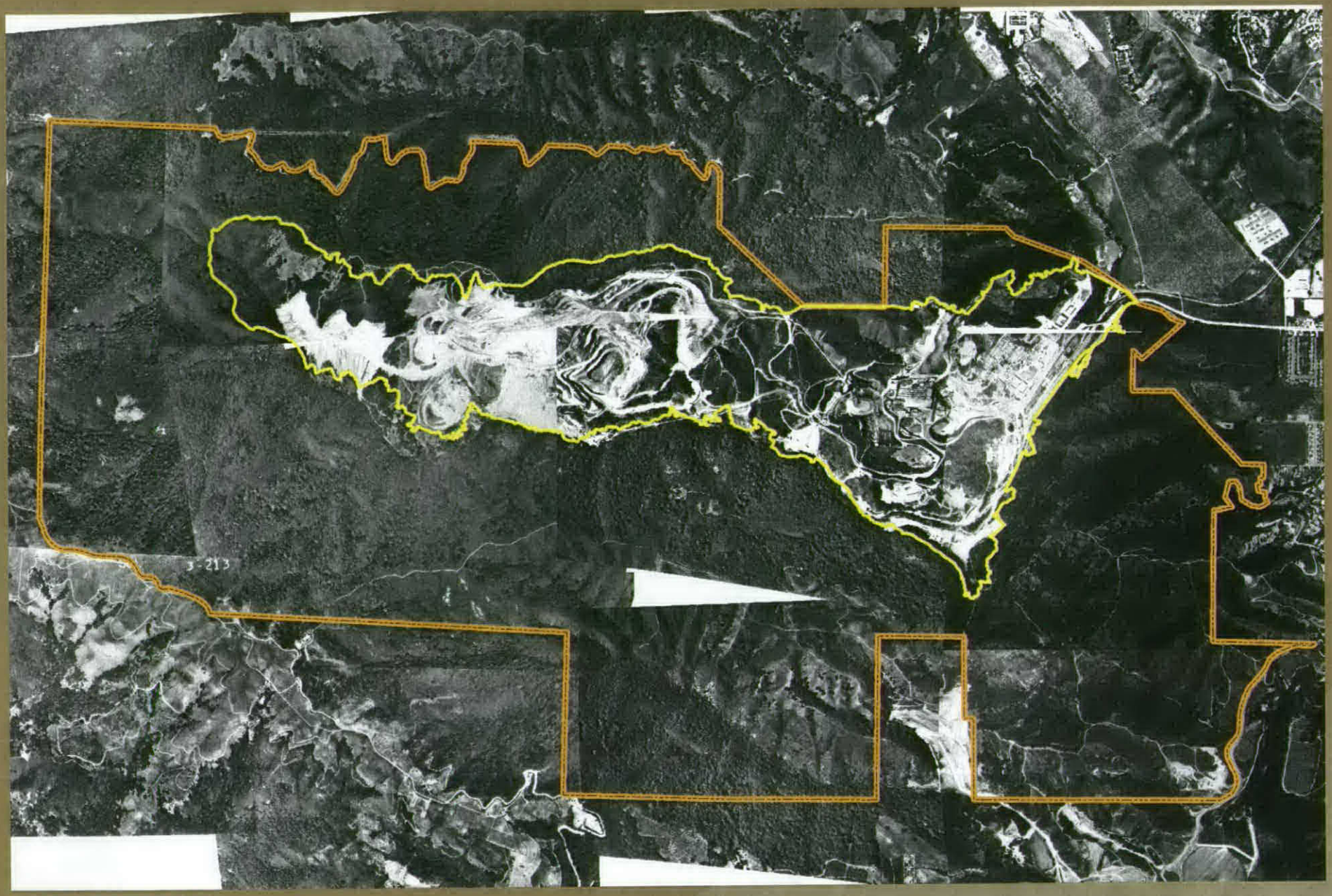


1950

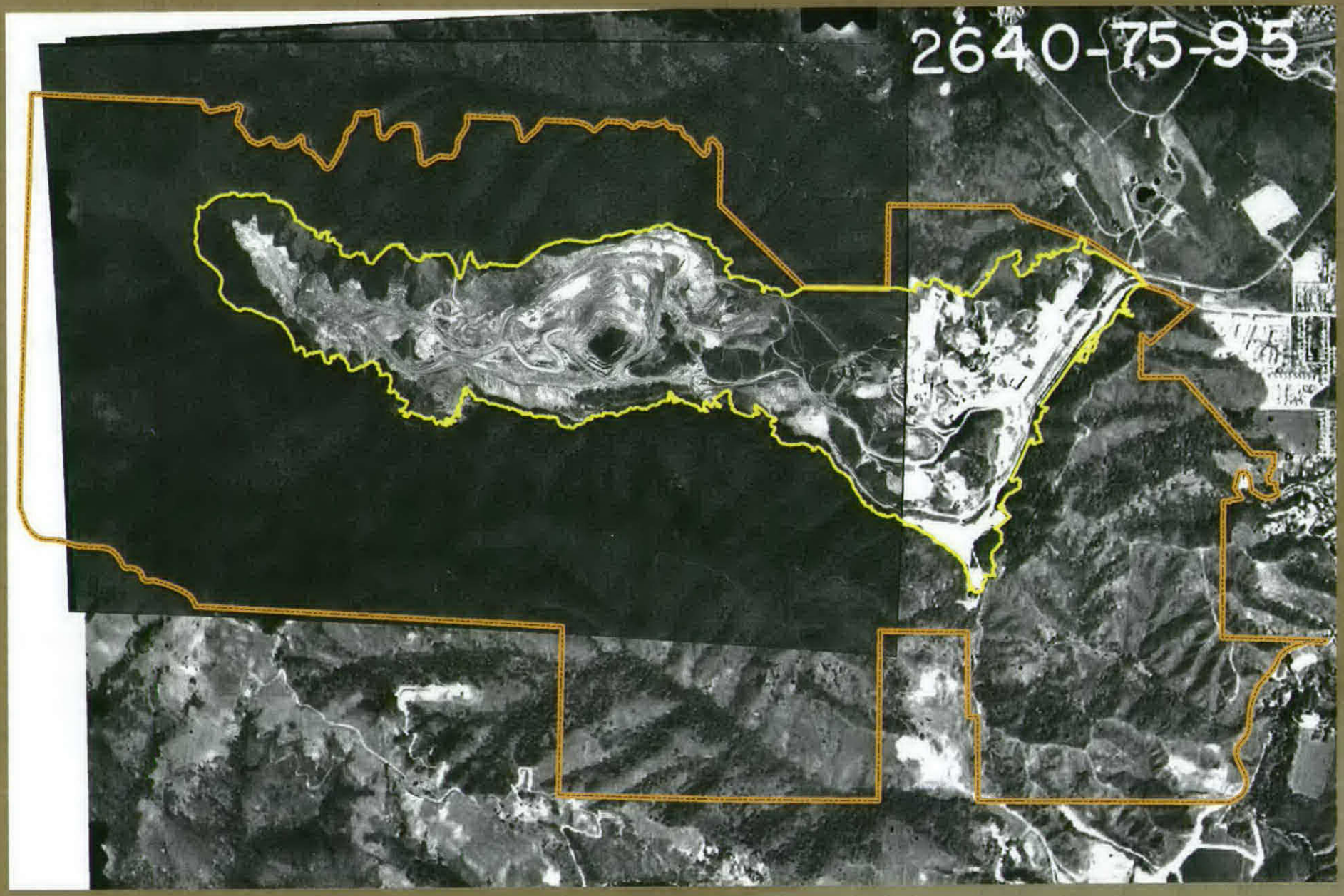
1956



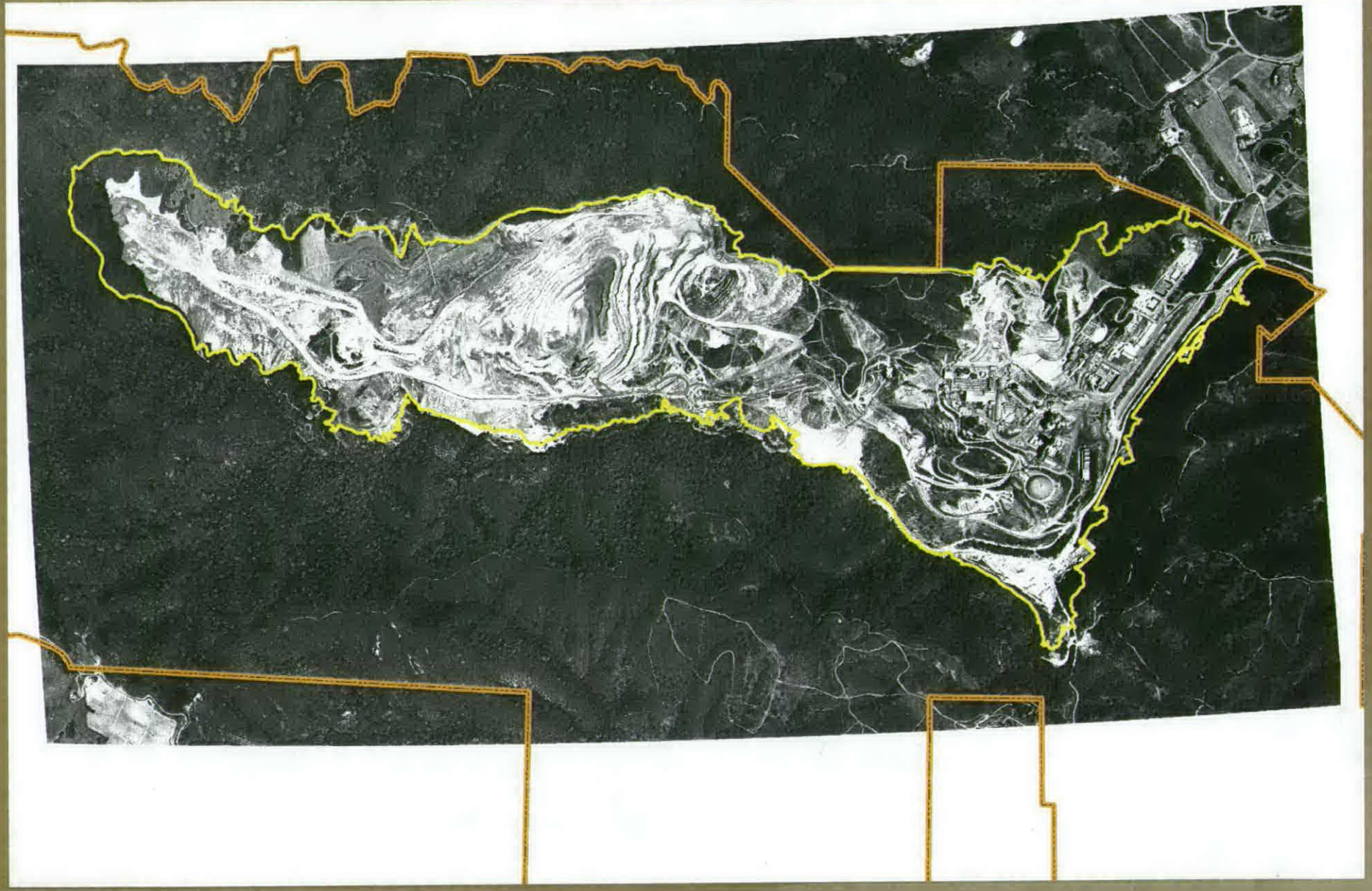
1965



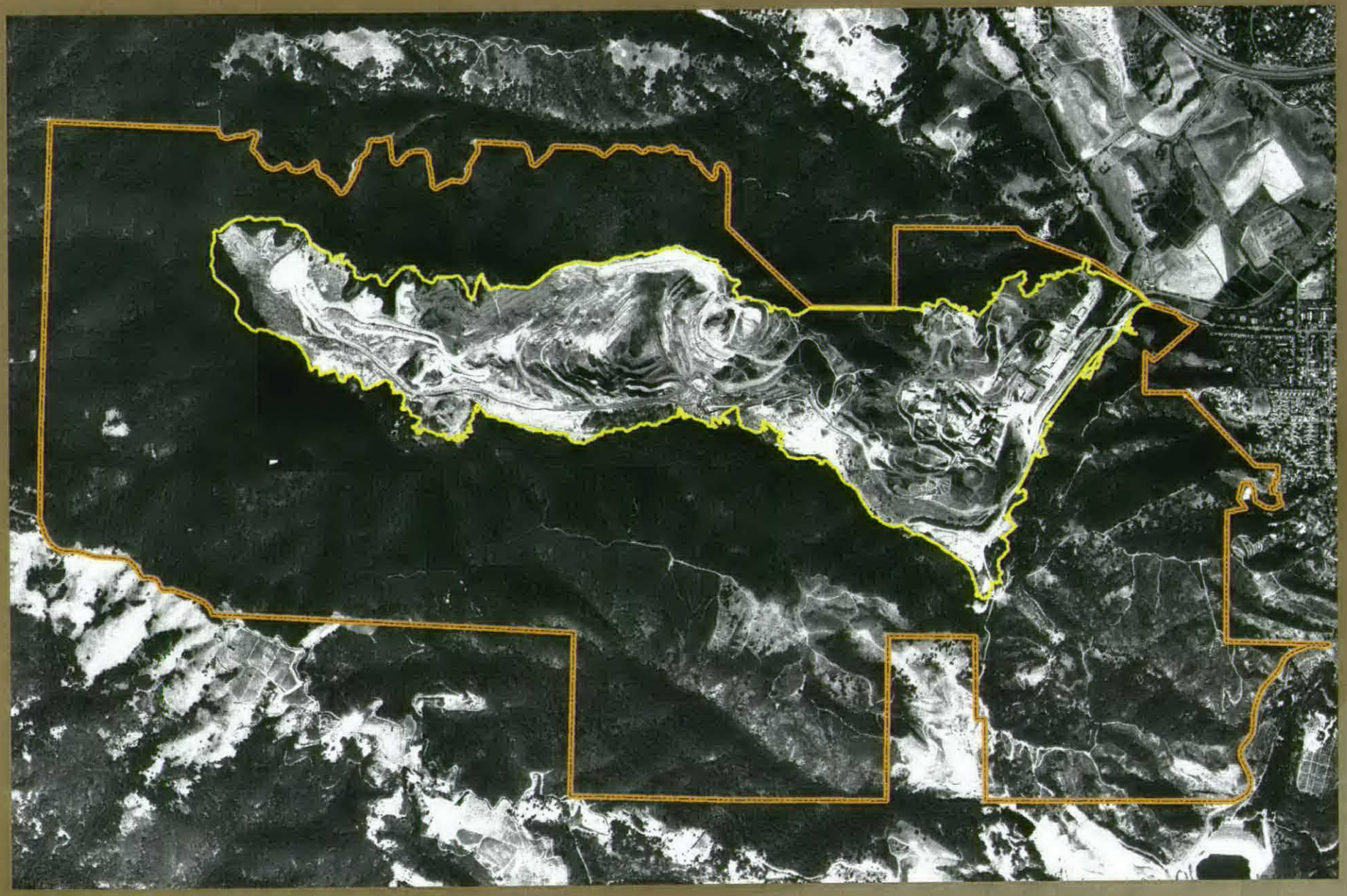
1975



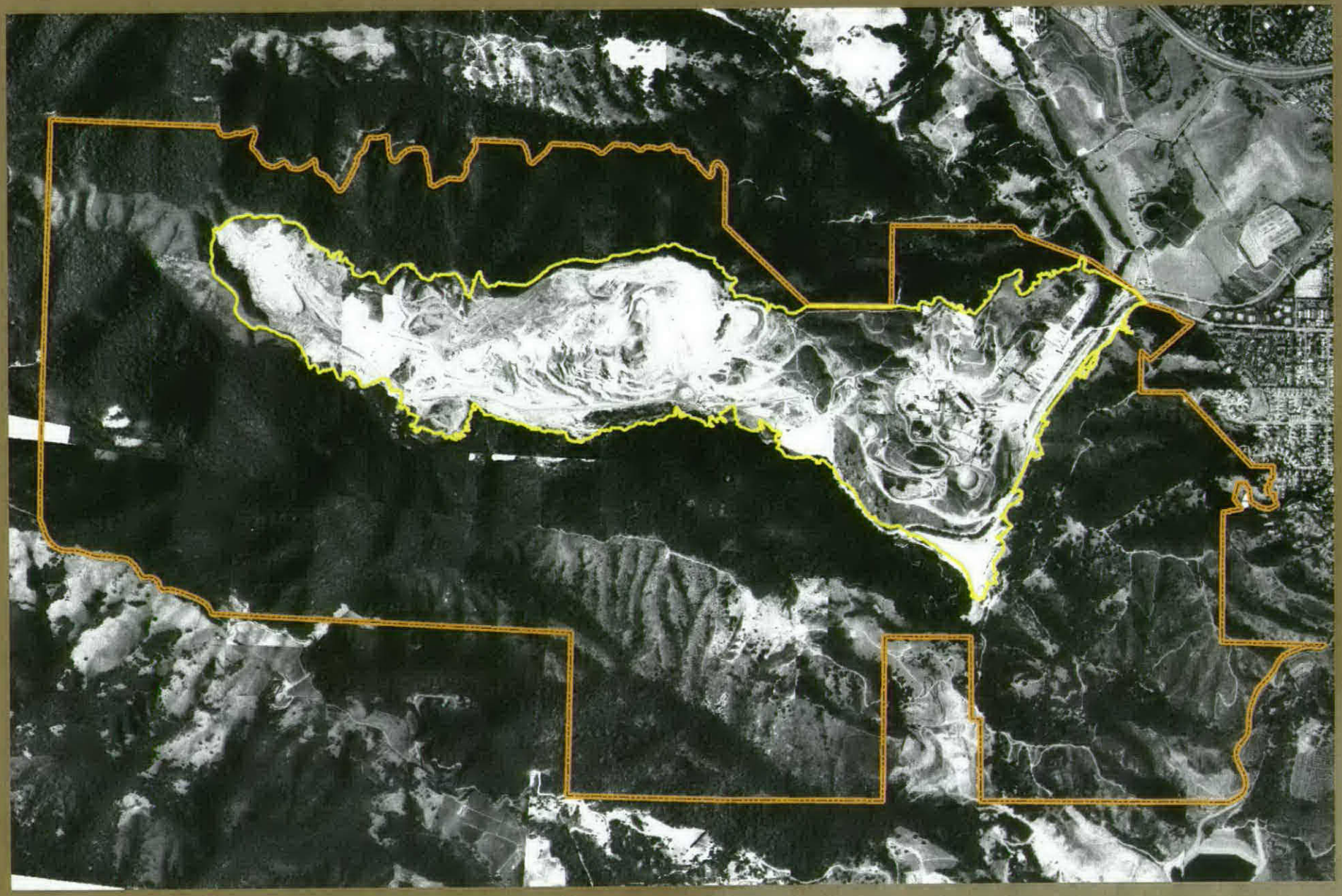
1985



1991



1993



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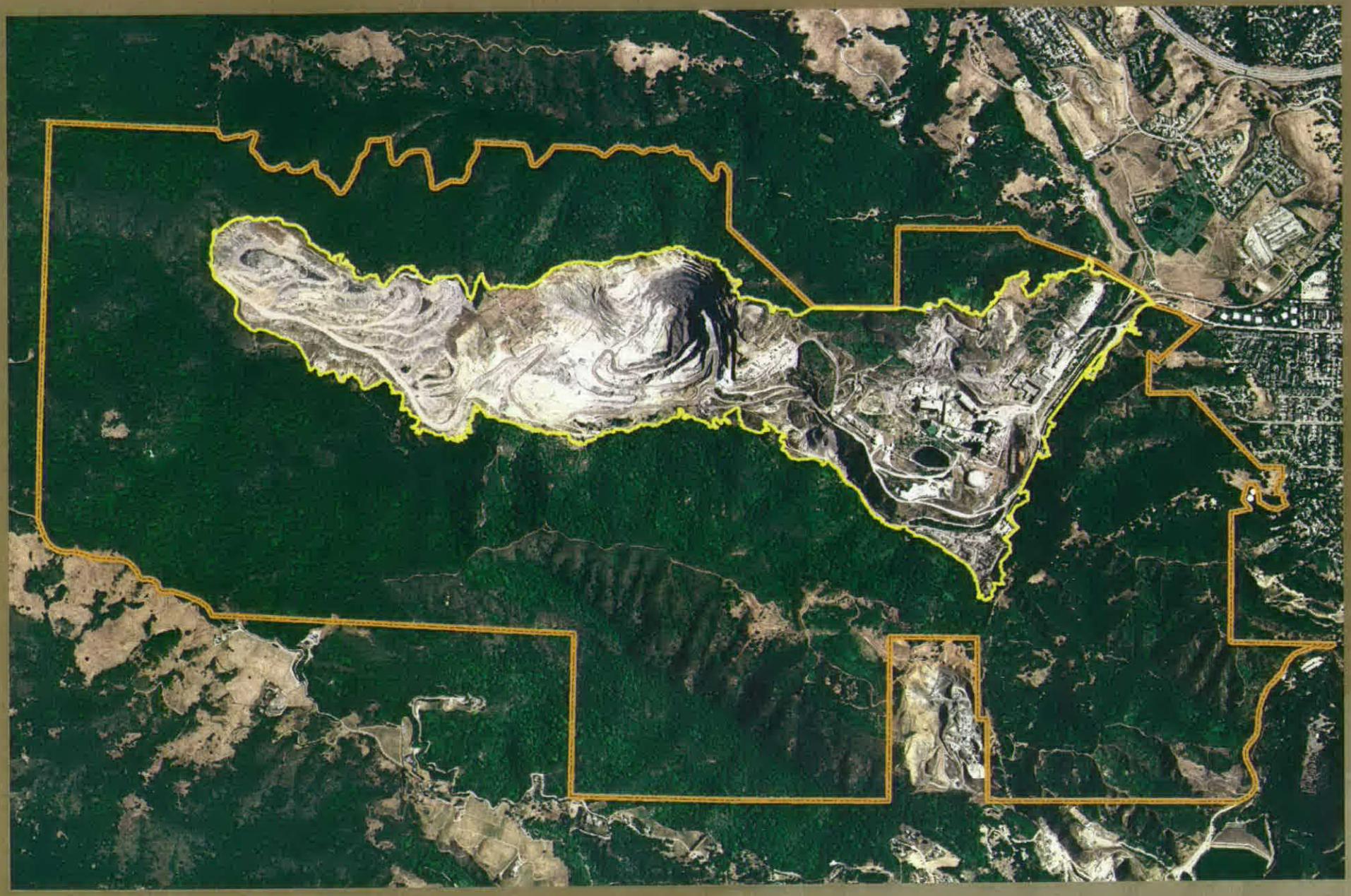
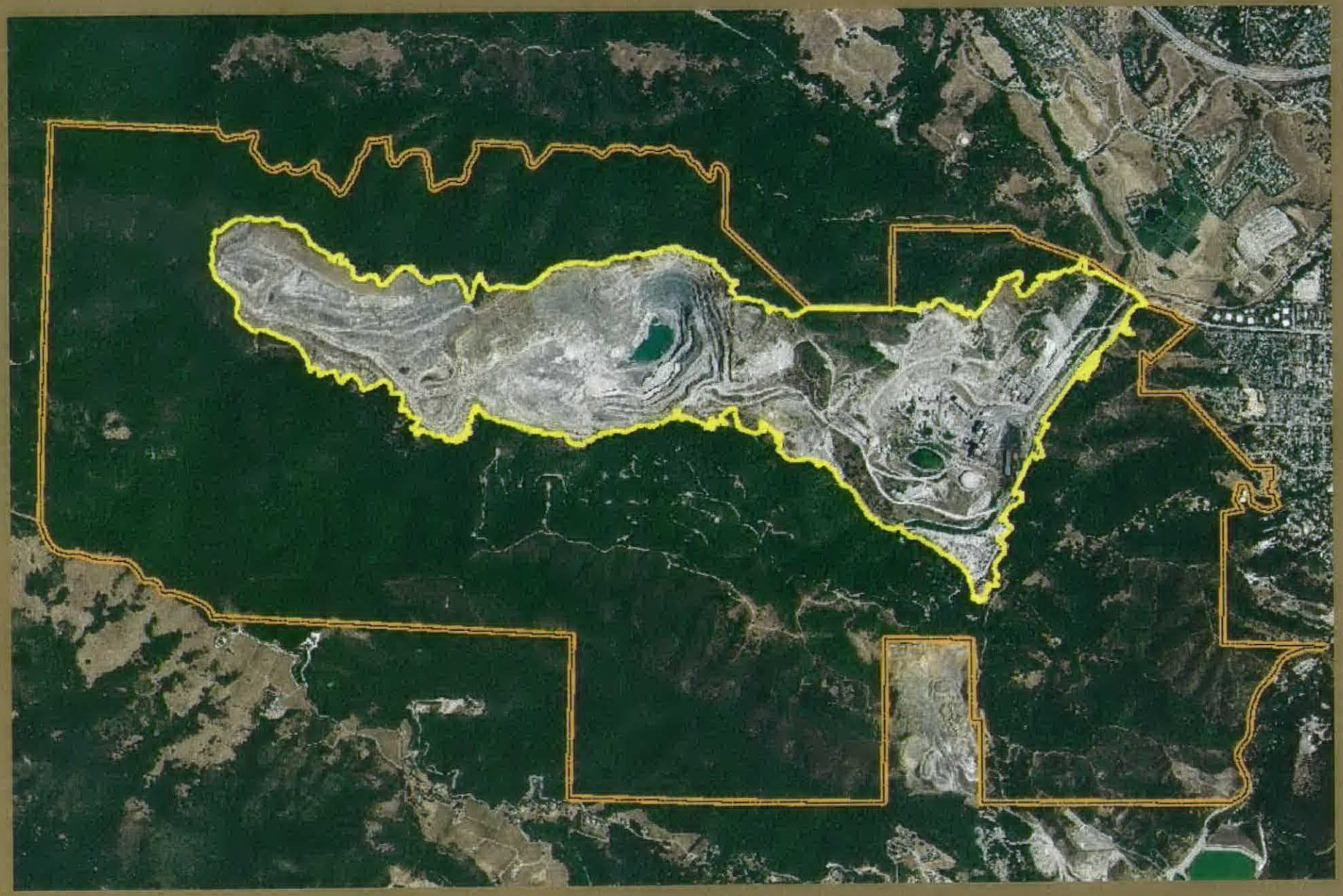


2009



June 1939
Stanford University Report

Page 3: "By far the largest and most important of [S.F. Bay Area] deposits is the Permanente limestone mass."

Page 4: "[A] large additional tonnage of available limestone...occurs...on the mountain slopes south of the creek."

C. F. TOLMAN
STANFORD UNIVERSITY
CALIFORNIA

June 18, 1939

The Permanente Corporation
1522 Latham Square Building
Oakland, California

Gentlemen:

At your request I submit the results of our sampling of a portion of the Permanente limestone, situated on the southern slope of Bald Peak and on the northern slope of Permanente canyon. The area sampled lies above the 1500 foot level, and also above the mass of Franciscan sandstone and volcanics which separates the great limestone body into two portions. The area sampled covers the Southeast Quarter of Section 18, Township 7 South, Range 2 West and does not include large and easily available bodies of high grade limestone north and east of this area nor the large mass of limestone below the 1500 level on the northern slope of Permanente canyon, nor the mass of limestone south of Permanente Creek. These three additional areas contain large tonnages of high grade "dark" limestone.

The area sampled and the areal extent of the entire body of Permanente limestone is shown on the Location Map accompanying this report.

The present preliminary report is accompanied by the following photographs, maps and tabulations:

MATHIESON

GEOLOGY OF THE PERMANENTE PROPERTY, KAISER CEMENT CORPORATION, PERMANENTE, CALIFORNIA

Elizabeth L. Mathieson
Associate Geologist
Mineral Resources Department
Kaiser Cement Corporation
May 28, 1982

MAP AREAS:

AREA 1

Area 1 was mapped primarily by E. Mathieson and J. Tal.

Structure

Outcrops in the Black Mountain area, as in most of the Permanente property, are rare. Bedding attitudes have no systematic pattern. The large-scale structure appears to consist of wide northwest-trending bands of Franciscan volcanics separated by wide shear zones. The shear zones contain large, resistant blocks of limestone that form ridge-top outcrops. There are few outcrops of other rock types.

Limestone

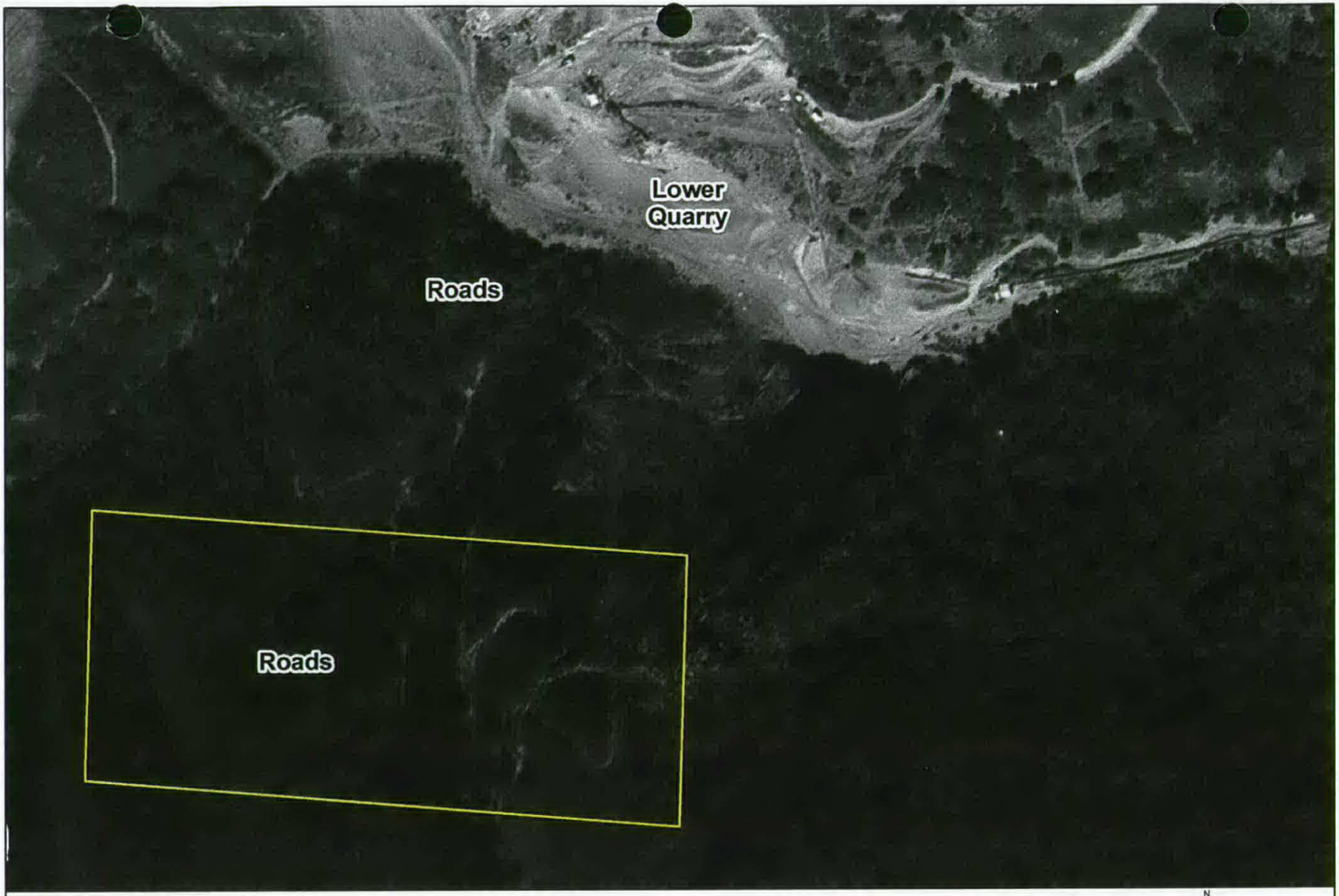
The southwest corner of the property contains many prominent but scattered limestone outcrops. Some occur as large ridge-top or hillside exposures, but many are small and isolated.

K. E. Grimm, who was the chief geologist for Permanente Cement Company in the early 1940's, conducted an exploration program in the Black Mountain area. His reports (Grimm, 1943, 1945) were based on extensive surface mapping, trenching, and drilling. Grimm concluded that the outcrops are "local isolated remnants of an earlier larger mass." Our field work confirmed that the outcrops are isolated, but they probably are small fault blocks within a shear zone rather than erosional remnants of a large ridge-top body of limestone. The blocks of limestone probably are separated by a less-resistant matrix of sheared volcanics, sandstone, limestone, and chert. Such "melange" zones are characteristic of the Franciscan assemblage.

Grimm (1945) recognized limestones of two different ages in the Black Mountain area. He used microfossils to correlate the younger limestone with the "upper light" (low grade) limestone at the Permanente quarries. We were unable to distinguish limestone of different ages. Most of the Black Mountain

Exploratory Drilling

Permanente Quarry
ACCESS ROAD
MORRIS PARCEL
ACCESS ROAD
LOWER QUARRY



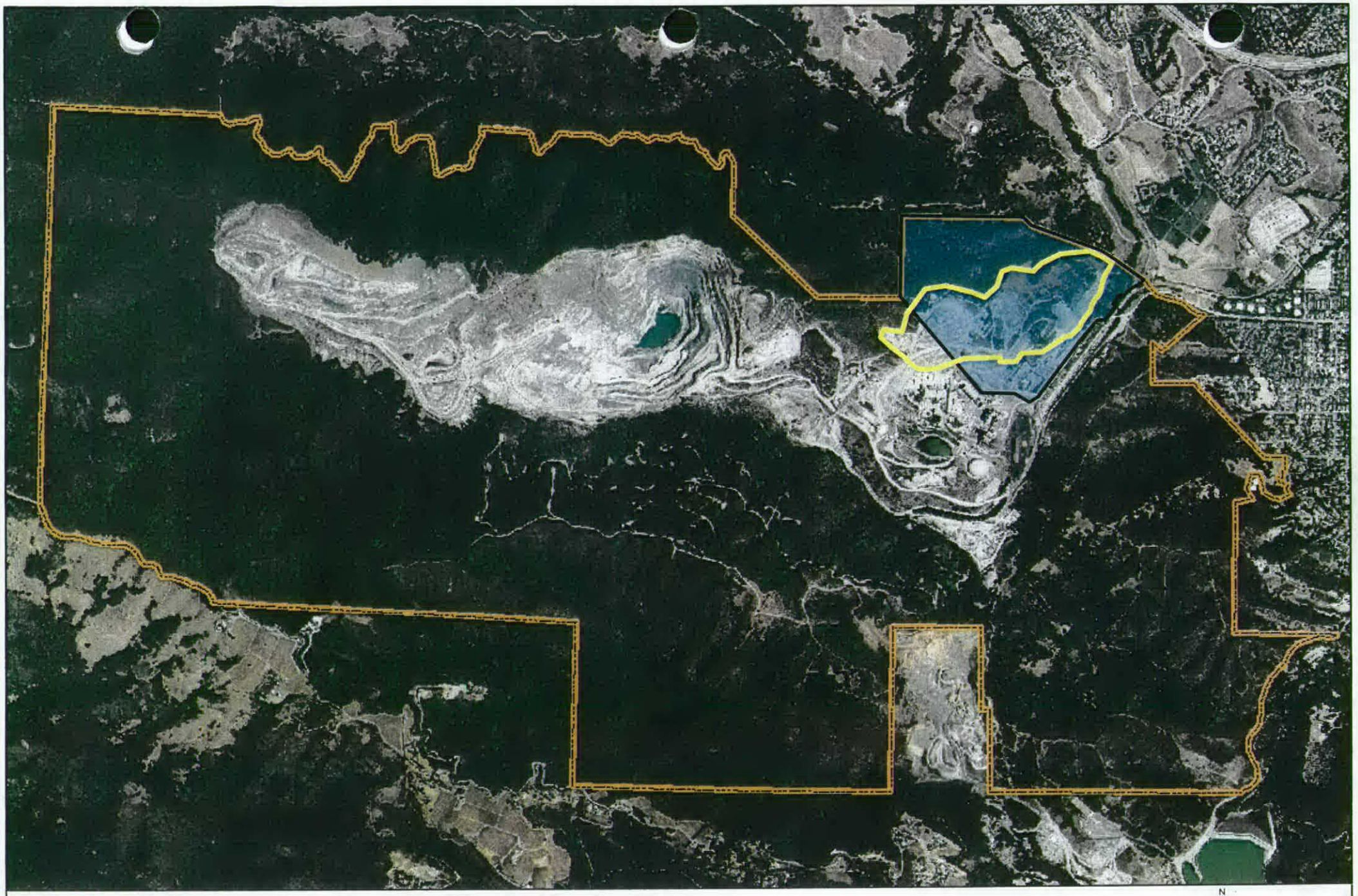
EnviroMINE Inc.

Date: September 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 1948, NAR

PERMANENTE QUARRY
CROCKER PARCEL - 1948

N
W E
S

Feet
0 150 300
1 inch = 300 feet



EnviroMINE Inc.

Date: December 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

PERMANENTE QUARRY
EAST MATERIALS STORAGE AREA

N
W E
S

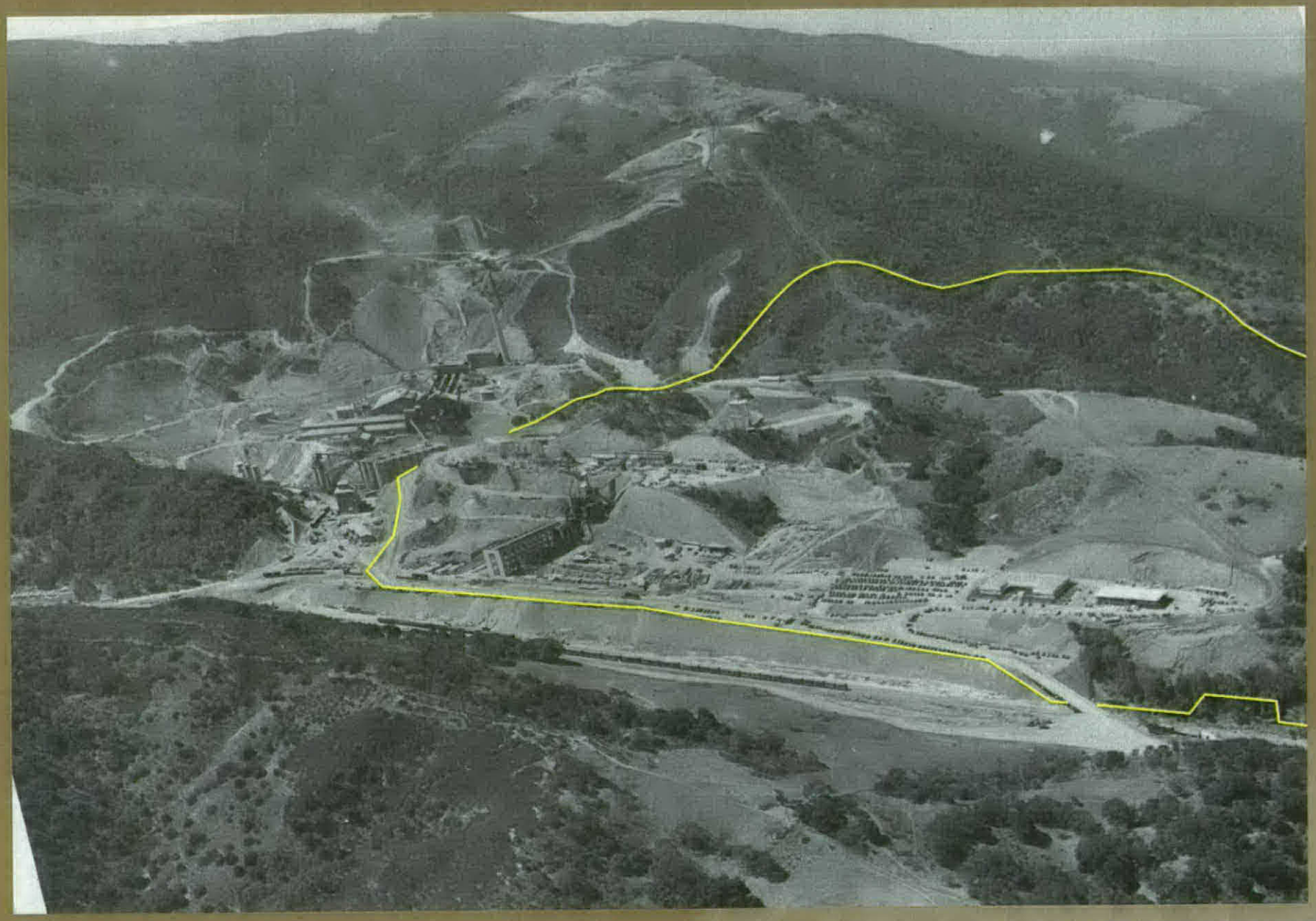
Feet
0 1,000 2,000

1 inch = 2,000 feet

EMSA - March 1941

EMSA - Late 1941

EMSA - 1942

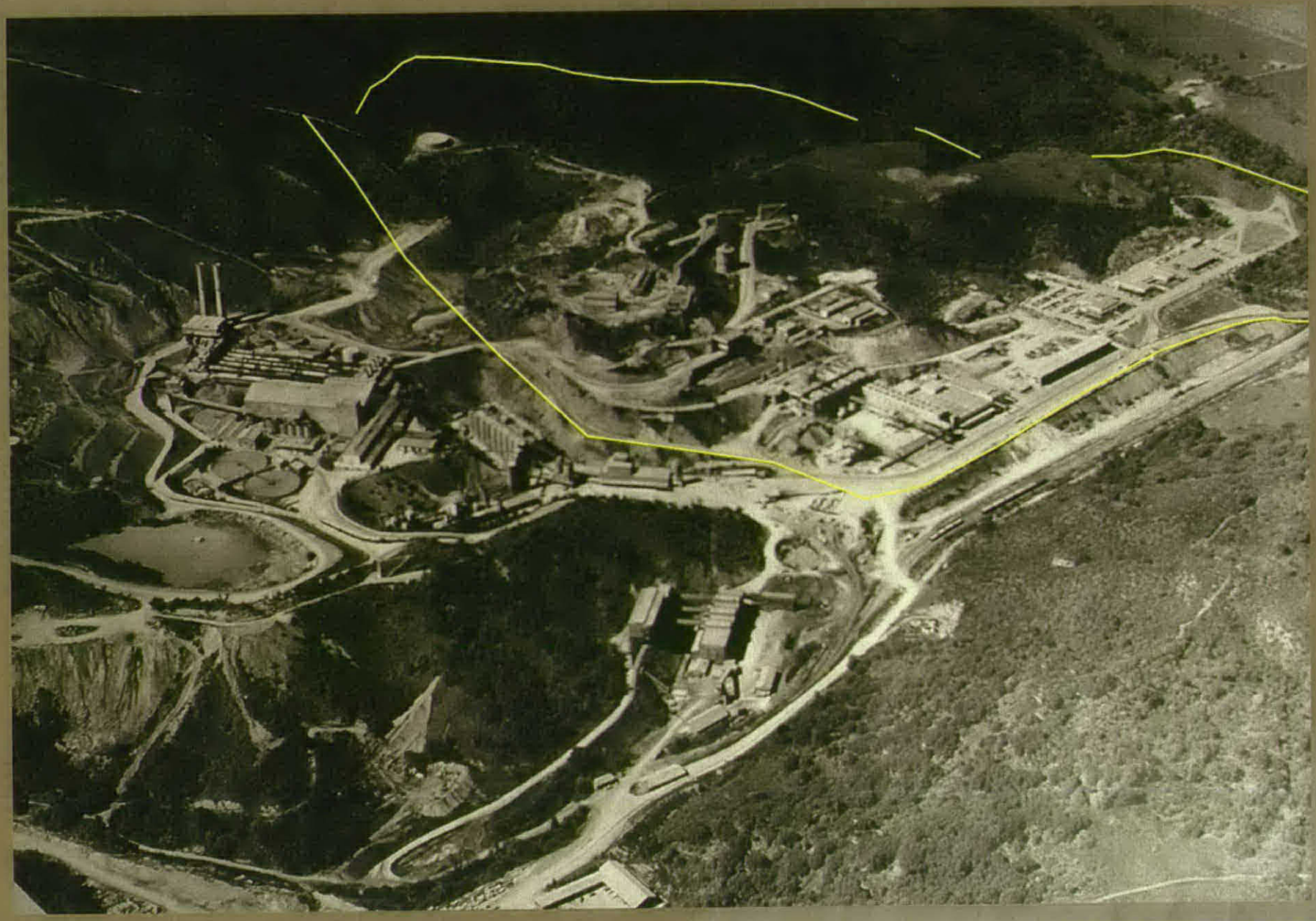


EMSA - 1942

EMSA - 1948

EMSA - 1950

EMSA - 1955



EMSA - 1974

EMSA - 1974

EMSA - 1974

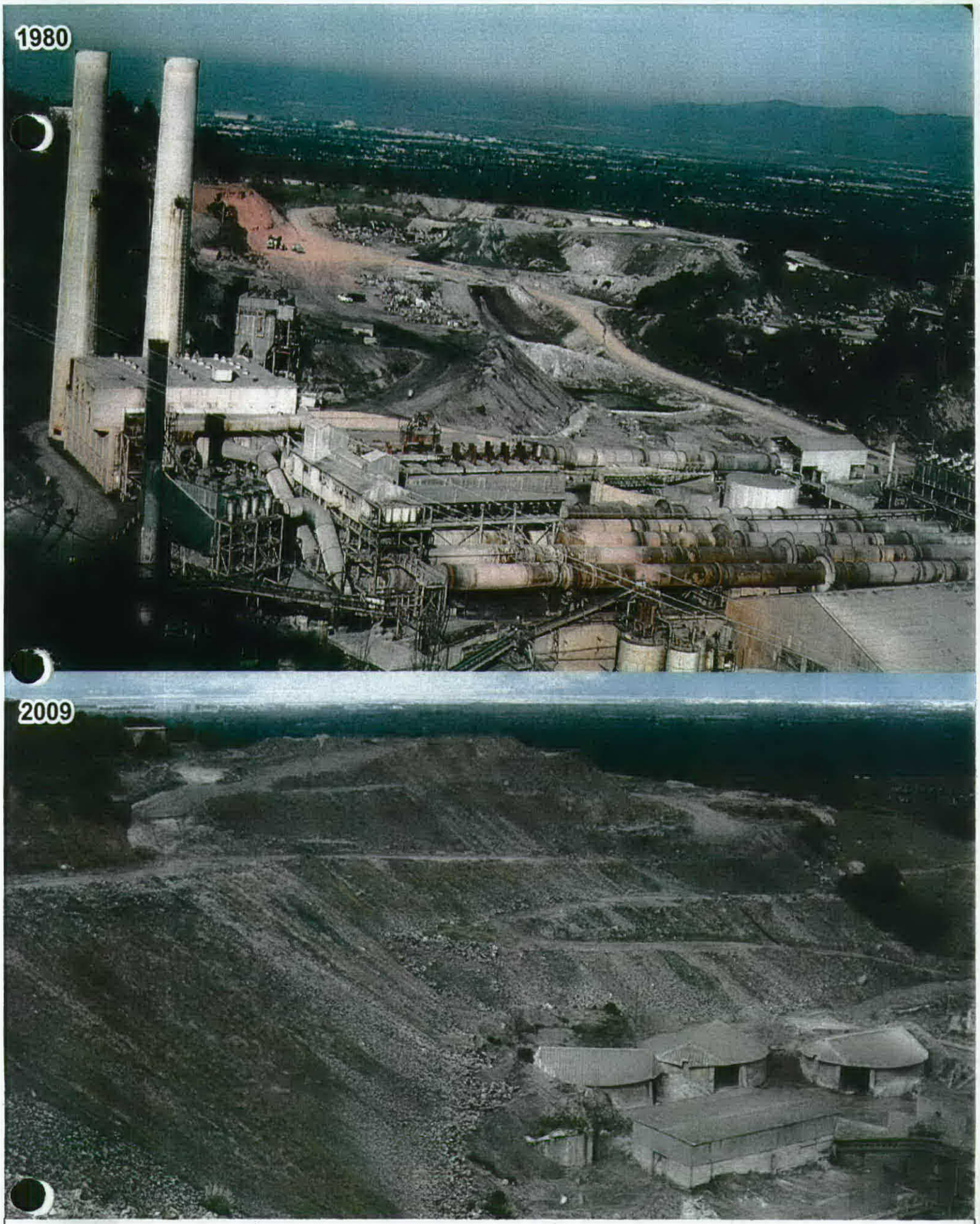
EMSA - 1980

EMSA - 1984

EMSA - 1991

EMSA - 2005

EMSA - 2009



EnviroMINE Inc.

PERMANENTE QUARRY
EMSA HISTORIC PROGRESSION

Date: December 2010