



LEGEND

D D' CROSS SECTION FOR SLOPE STABILITY ANALYSIS

MAP INDEX

		2F	2I
	2C	2G	2J
2A	2D	2H	
	2B	2E	

SCALE IN FEET

0 100 200 400





<i>Ninyo & Moore</i>		BORING LOCATIONS	FIGURE
PROJECT NO.	DATE	EL MONTE VALLEY MINING, RECLAMATION, AND GROUNDWATER RECHARGE PROJECT LAKESIDE, CALIFORNIA	2A
106200005	5/11		

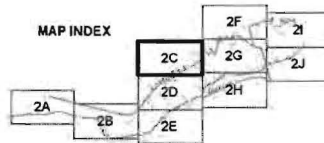
Source: Black & Veatch 2011, Ingle Water District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Drafting, dated January 10

SOURCE: Black & Veatch 2011, Ingle Water District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Drafting, dated January 10

LEGEND

-  B-30 BORING
TD=106.5' TD = TOTAL DEPTH IN FEET
-  D D' CROSS SECTION FOR SLOPE
STABILITY ANALYSIS

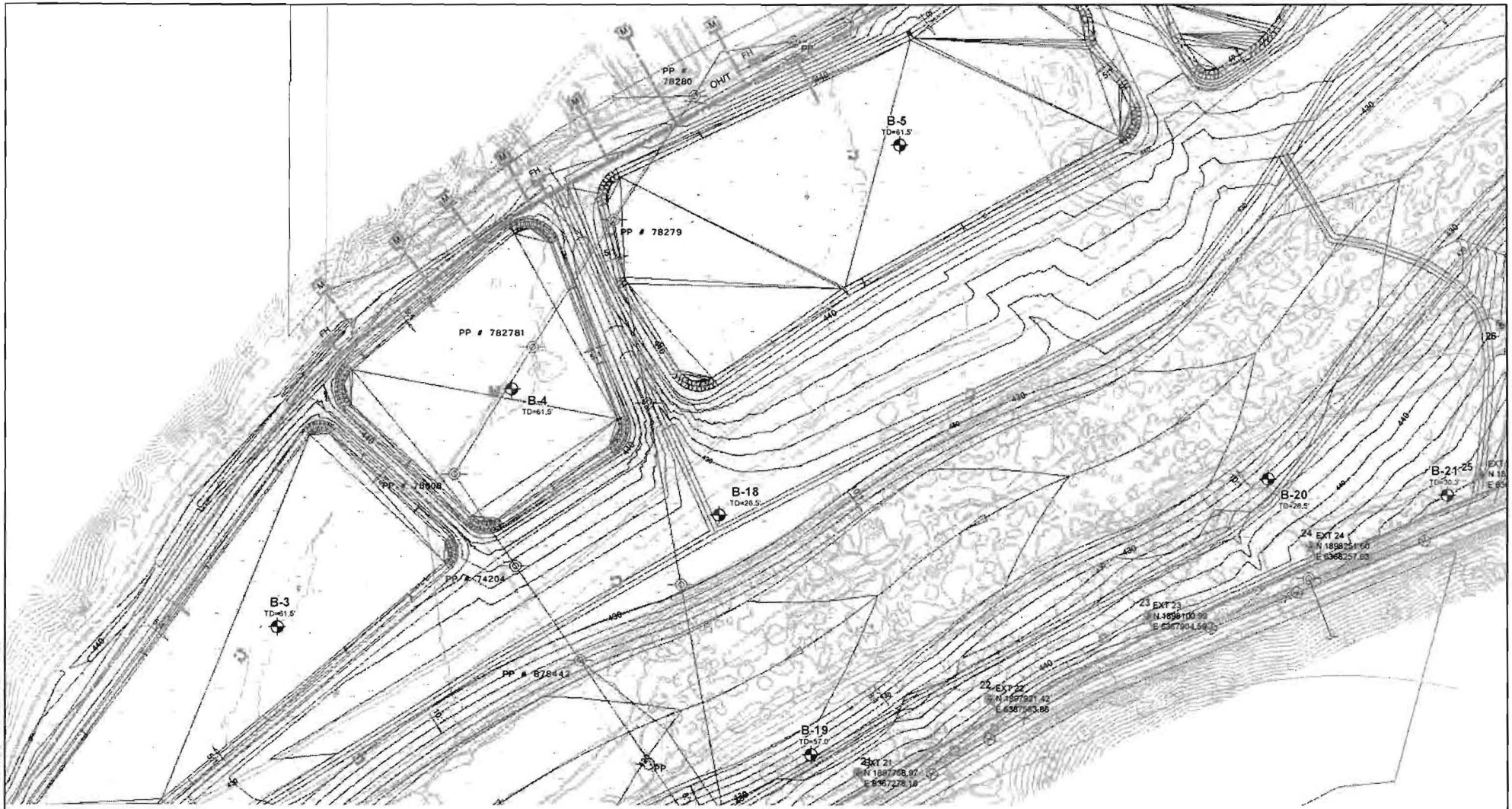
MAP INDEX



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE



<i>Ningo & Moore</i>		BORING LOCATIONS	FIGURE
PROJECT NO.	DATE	EL MONTE VALLEY MINING, RECLAMATION, AND GROUNDWATER RECHARGE PROJECT LAKESIDE, CALIFORNIA	2C
106200005	5/11		

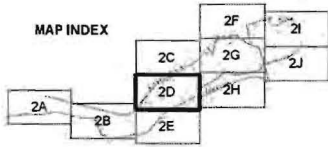


SOURCE: Black & Veatch, 2011, Hells Valley District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Grading, dated January 10.

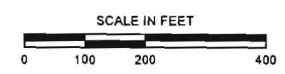
LEGEND

B-30 BORING
 TD=106.5' TD = TOTAL DEPTH IN FEET
 CROSS SECTION FOR SLOPE STABILITY ANALYSIS

MAP INDEX



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE



		BORING LOCATIONS
PROJECT NO.	DATE	EL MONTE VALLEY MINING, RECLAMATION, AND GROUNDWATER RECHARGE PROJECT LAKESIDE, CALIFORNIA
106200005	5/11	

FIGURE
2D

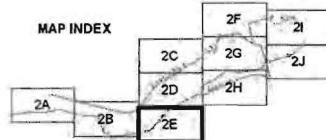


SOURCE: Black & Veatch, 2011, "Hale Water District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Grading," dated January 10.

LEGEND

- B-30** BORING
 TD = 106.5' TD = TOTAL DEPTH IN FEET
D D' CROSS SECTION FOR SLOPE STABILITY ANALYSIS

MAP INDEX



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE



Ningo & Moore

PROJECT NO.

106200005

DATE

5/11

BORING LOCATIONS

EL MONTE VALLEY MINING, RECLAMATION,
AND GROUNDWATER RECHARGE PROJECT
LAKESIDE, CALIFORNIA



FIGURE

2E

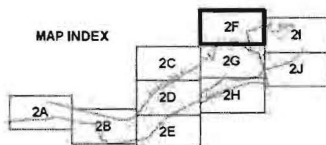


SOURCE: Black & Veatch, 2011, Hells Valley District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Grading, dated January 10;

LEGEND

-  B-30 BORING
 TD=106.5' TD = TOTAL DEPTH IN FEET
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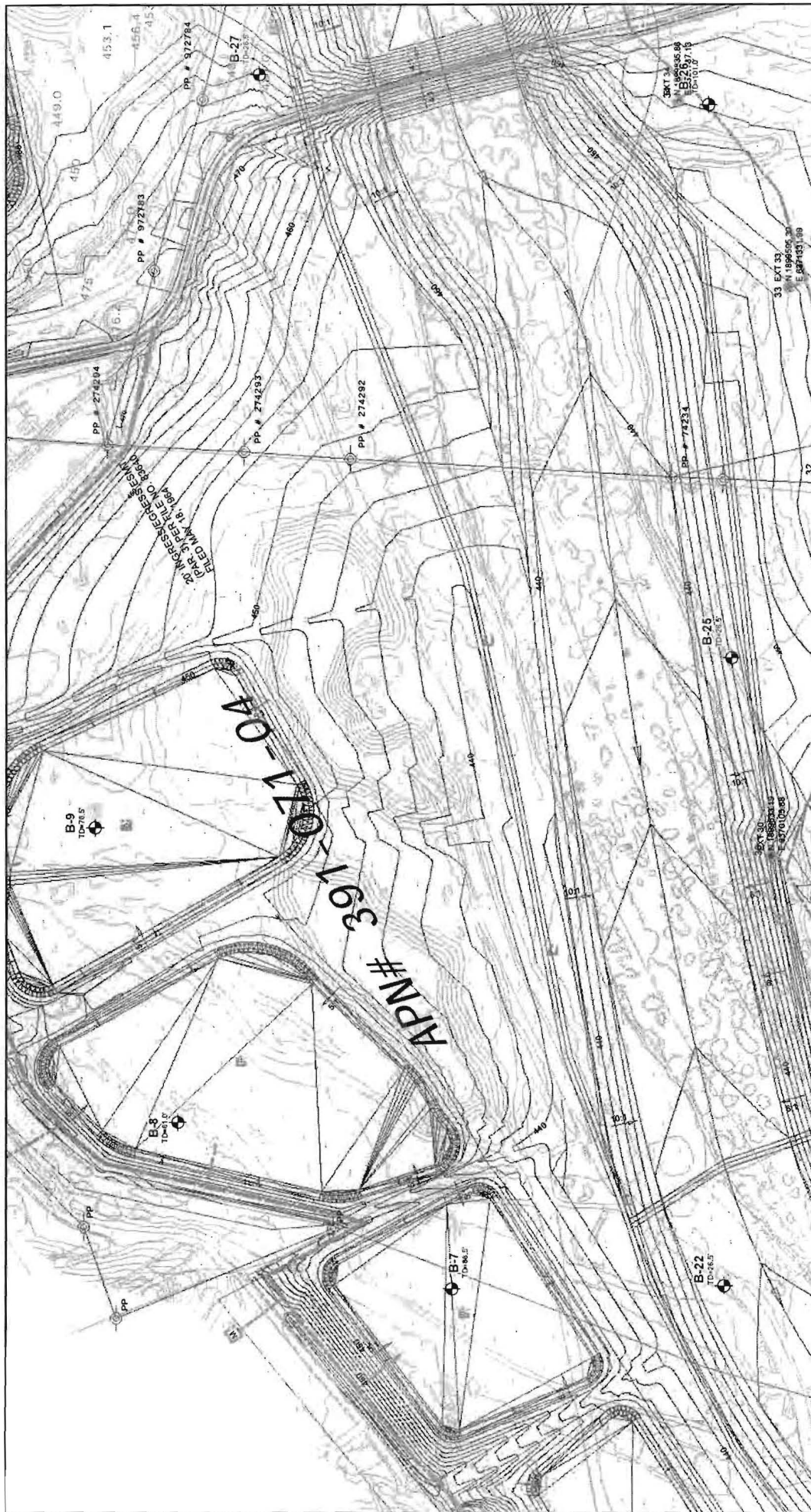
NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE



Ningo & Moore

BORING LOCATIONS

PROJECT NO.	DATE	FIGURE
106200005	5/11	
EL MONTE VALLEY MINING, RECLAMATION, AND GROUNDWATER RECHARGE PROJECT LAKESIDE, CALIFORNIA		2F



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

SCALE IN FEET

0 100 200 400

N



LEGEND

B-30 BORING
TD=106.5'

D D' CROSS SECTION FOR SLOPE
STABILITY ANALYSIS

Boring Locations		FIGURE
PROJECT NO.	DATE	
106200005	5/11	2G

Ningo & Moore

EL MONTE VALLEY MINING, RECLAMATION
AND GROUNDWATER RECHARGE PROJECT
LAKESIDE, CALIFORNIA

SOURCE: Ningo & Moore, 2011. Hole Water Control, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project.
Conceptual Grading and Inventory 10

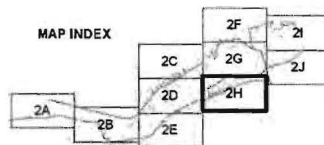


SOURCE: Black & Veatch, 2011, Hahn Water District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Grading dated January 10.

LEGEND

- B-30 BORING
 TD=106.5' TD = TOTAL DEPTH IN FEET
 D D' CROSS SECTION FOR SLOPE STABILITY ANALYSIS

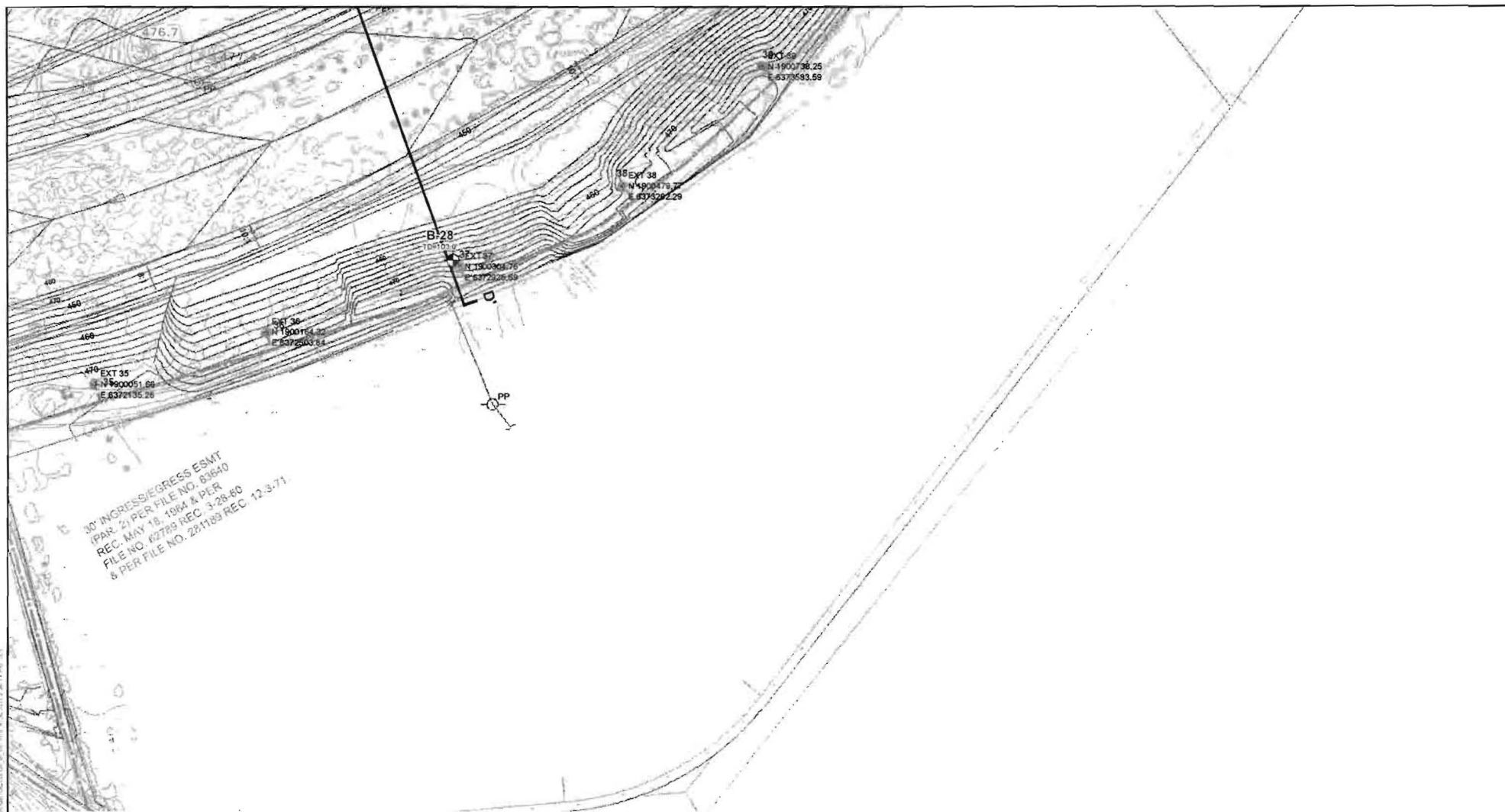
MAP INDEX



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE



		BORING LOCATIONS	FIGURE 2H
PROJECT NO.	DATE	EL MONTE VALLEY MINING, RECLAMATION, AND GROUNDWATER RECHARGE PROJECT LAKESIDE, CALIFORNIA	
106200005	5/11		



SOURCE: Black & Veatch, 2011, Hahn Water District, El Monte Valley Mining, Reclamation, and Groundwater Recharge Project - Conceptual Grading, dated January 10.

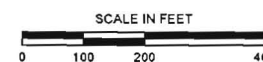
LEGEND

- B-30 BORING
 TD=105.9
 TD = TOTAL DEPTH IN FEET
 D-D' CROSS SECTION FOR SLOPE
 STABILITY ANALYSIS

MAP INDEX



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Ninyo & Moore

PROJECT NO.

106200005

DATE

5/11

BORING LOCATIONS

EL MONTE VALLEY MINING, RECLAMATION,
AND GROUNDWATER RECHARGE PROJECT
LAKESIDE, CALIFORNIA

FIGURE

2J



PERMIT #LMON107648

A.P.N. #392-050-43; 392-060-29;
392-150-17; 391-061-01; 391-071-
04; 393-011-01; 390-040-51

EST #NONE

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
MONITORING WELL PROGRAM
GEOTECHNICAL BORING CONSTRUCTION PERMIT

SITE NAME: EL MONTE VALLEY

SITE ADDRESS: 13950, 14403, 15480 EL MONTE RD., 10815 ASHWOOD ST., 13315,
14999 WILLOW RD., LAKESIDE CA 92040

PERMIT FOR: **30 GEOTECHNICAL BORINGS**

PERMIT APPROVAL DATE: FEBRUARY 17, 2011

PERMIT EXPIRES ON: JUNE 17, 2011

RESPONSIBLE PARTY: HELIX WATER DISTRICT

PERMIT CONDITIONS:

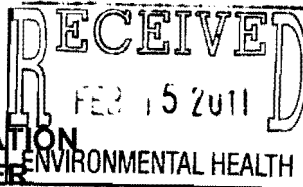
1. All borings must be sealed from the bottom of the boring to the ground surface with an approved sealing material as specified in California Well Standards Bulletin 74-90, Part III, Section 19.D. **Drill cuttings are not an acceptable fill material.**
2. All borings must be properly destroyed within 24 hours of drilling.
3. Placement of any sealing material at a depth greater than 30 feet must be done using the tremie method.
4. This work is not connected to any known unauthorized release of hazardous substances. Any contamination found in the course of drilling and sampling must be reported to DEH. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (http://www.sdcountry.ca.gov/deh/lwq/sam/manual_guidelines.html). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.
5. Within 60 days of completing work, submit a well/boring construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.
6. **This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 858) 505-6688.**

APPROVED BY: _____


AMELIA CESENA

DATE: 2.17.2011

NOTIFIED: _____

**EXPEDITE****Technical Boring****PERMIT APPLICATION****GROUNDWATER****ENVIRONMENTAL HEALTH****AND VADOSE MONITORING WELLS
AND EXPLORATORY OR TEST BORINGS**

T107648

OFFICE USE ONLYPERMIT LMON # 107648SAM CASE YIN # noneDATE RECEIVED: 2-15-11FEE PAID: \$ 10215CHECK # 132539**A. RESPONSIBLE PARTY** Helix Water District E-mail tim.smith@helixwater.org
(The person, persons, or company responsible for the construction, maintenance, and destruction of the proposed borings and/or wells.)Mailing Address 7811 University Ave City La Mesa State CA Zip 91942Contact Person Tim Smith Phone (619) 466-0585 Ext. Fax 466-1823**B. SITE ASSESSMENT PROJECT NUMBER - IF APPLICABLE #** N/A**C. CONSULTING FIRM** Ningo & MooreMailing Address 5710 Ruffin Rd City San Diego State CA Zip 92123Registered Professional Francis O. Moreland Registration # 2071 (RG, RCE, CEG PG)E-mail fmoreland@ningoandmoore.com, mbeitch@ningoandmoore.com Circle if applicable
Contact Person Marci Beitch Phone (858) 576-1000 Ext. 1222 Fax 576-9600**D. DRILLING COMPANY** Tri-County Drilling, Inc.C57# 547737Contact Name Tim Duddie or Dave Maske E-mail timd@tcdriilling.com or dmaske@tcdriilling.comMailing Address 9631 Candida Street City San Diego State CA Zip 92126Phone 858-271-0099 Ext. Fax 858-271-0233**E. CONSTRUCTION INFORMATION****TYPE OF WELLS/
BORINGS TO BE
CONSTRUCTED**#
☐ Groundwater
☐ Vadose
☒ Boring 30
☐ Other **NUMBER OF WELLS
TO BE DESTROYED**☐ **MATERIALS TO BE USED****CASING**Not Applicable ☒
Type
Gauge
Diameter
Well Screen Size Filter Pack **SEAL/BORING
BACKFILL**☐ Neat Cement
☐ Cement & Bentonite
☐ Sand-Cement
☒ Bentonite
☐ OtherBorehole diameter 8"**Drilling Method**☒ Auger
☐ Mud Rotary
☐ Percussion
☐ Air Rotary
☐ Other**PROPOSED CONSTRUCTION**Estimated groundwater depth: 20 ft.Estimated depth of boring 25-170 ft.Concrete
surface seal 0 to 3Annular seal to Bentonite 3 to TD
transition seal (total depth)Filter Pack to Perforation to **NOTE:****Attach a well construction diagram
for wells with multiple completions**

I agree to comply with the requirements of the current Site Assessment and Mitigation Manual, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction.

DRILLER'S SIGNATURE [Signature] DATE 2/14/11

Within 60 days of completion, I will furnish the Monitoring Well Permit Desk with a complete and accurate well/boring log. I will certify the design and construction or destruction of the well/borings in accordance with the permit application.

RG/RCE/CEG SIGNATURE Francis O Moreland DATE 2-14-11

3958

F. SITE INFORMATION

1. ASSESSOR'S PARCEL NUMBER 392-050-43-00

Site Name El Monte Valley

Site Address ~~10815 Ashwood Street~~ 13950 El Monte Rd City Lakeside Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip

91942-

NUMBER OF WELLS 1-

TYPE OF WELLS Soil boring

2. ASSESSOR'S PARCEL NUMBER 392-060-29-00

Site Name El Monte Valley

Site Address ~~13331 Willow Road~~ 13950 El Monte Rd City Lakeside Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip

91942-

NUMBER OF WELLS 2-

TYPE OF WELLS Soil borings

3. ASSESSOR'S PARCEL NUMBER 392-150-17-00

Site Name El Monte Valley

Site Address 13950 El Monte Road City Lakeside Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip

91942-

NUMBER OF WELLS 2-

TYPE OF WELLS Soil borings

4. ASSESSOR'S PARCEL NUMBER 391-061-01-00

Site Name El Monte Valley

Site Address ~~14403 El Monte Rd~~ 13950 City Lakeside Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip

91942-

NUMBER OF WELLS 12

TYPE OF WELLS Soil borings

F. SITE INFORMATION

1. ASSESSOR'S PARCEL NUMBER 391-071-04-00

Site Name El Monte Valley

Site Address ~~15000 Willow Road~~

13950 El Monte Rd

City Lakeside

Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip _____

91942-

NUMBER OF WELLS 4-

TYPE OF WELLS Soil borings

2. ASSESSOR'S PARCEL NUMBER 393-011-01-00

Site Name El Monte Valley

Site Address ~~14876 El Monte Road~~

13950

City Lakeside

Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip _____

91942-

NUMBER OF WELLS 3-

TYPE OF WELLS Soil borings

3. ASSESSOR'S PARCEL NUMBER 390-040-51-00

Site Name El Monte Valley

Site Address ~~15200 Willow Road~~

13950 El Monte Rd

City Lakeside

Zip 92040-

PROPERTY OWNER Helix Water District

Phone 619-466-0585

Ext. _____

Fax 619-466-1823

Mailing Address 7811 University Ave

City La Mesa

State CA

Zip _____

91942-

NUMBER OF WELLS 6-

TYPE OF WELLS Soil borings

4. ASSESSOR'S PARCEL NUMBER _____

Site Name _____

Site Address _____

City _____

Zip _____

PROPERTY OWNER _____

Phone _____

Ext. _____

Fax _____

Mailing Address _____

City _____

State _____

Zip _____

NUMBER OF WELLS _____

TYPE OF WELLS _____

G. FEES (in effect beginning September 1, 2010, through June 30, 2011)

ACTIVITY	FEE SCHEDULE	AMOUNT			
Permit for Well Installations Only (Groundwater Monitoring Wells, Vadose, Vapor Extraction Wells)	\$200.00 for the first monitoring well				\$200.00
Permit for Well Maintenance Inspection (Valid for three years)	\$99.00 for first well maintenance inspection				\$99.00
Each Additional New Well	\$161.00 for each additional well installation \$ 30.00 for each additional well maintenance inspection	___ x	\$161.00	\$ ___	
		___ x	\$ 30.00	\$ ___	
Permit for Borings Only (CPT's, Hydropunch, Geoprobos, Temporary Well Points, etc.)	\$200.00 for the first boring \$ 49.00 for each additional boring	<u>1</u> x	\$200.00		<u>\$200.00</u>
		<u>29</u> x	\$ 49.00		<u>\$1421.00</u>
Permit for Well Destructions Only	\$200.00 for the first destruction \$123.00 for each additional destruction ...	___ x	\$200.00	\$ ___	
		___ x	\$123.00	\$ ___	
Permit for any Combination of Well Installations, Borings, & Destructions (except UST backfill permit)	The first activity will be \$200.00 Additional activities will be as follows: \$161.00 for each additional well \$99.00 for first well maintenance inspection \$ 30.00 for each additional well maintenance inspection \$123.00 for each well destruction \$ 49.00 for each additional boring	___ x	\$200.00	\$ ___	
		___ x	\$161.00	\$ ___	
		___ x	\$ 99.00	\$ ___	
		___ x	\$ 30.00	\$ ___	
		___ x	\$123.00	\$ ___	
		___ x	\$ 49.00	\$ ___	
Permit for Underground Storage Tank Monitoring System in Backfill (i.e. Enhanced Leak Detection)	\$320.00 (Flat Fee)				\$ ___
	TOTAL COST OF PERMIT				<u>\$1621.00</u>

H. **QUESTIONNAIRE: Please answer all applicable questions completely. For well destructions, complete only #1 below and submit any required supportive documentation.**

1. If wells are to be destroyed, provide a description of method of destruction N/A
2. What is the purpose of the well/boring investigation?

☐ a. Part of an ongoing site assessment case in which a government regulator is the lead agency. If yes, indicate which government regulator is the lead agency and the case number.

DEH

RWQCB

DTSC

☐ b. Part of a Phase I investigation for property ownership transfer or: _____
☒ c. Geotechnical investigation for proposed construction, land stabilization or:
☐ d. Other: _____
3. What procedures will be used to prevent the well/boring from providing an avenue to contamination during construction? All drilling and sampling equipment will be cleaned prior to intrusive activity. The borings will be sealed in accordance with SAM guidelines.
4. What field procedures will be utilized to determine if contamination exists? Soil will be visibly observed for contamination.
5. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving? Visual observations.
6. What constituents will be monitored and tested (Include EPA Laboratory Test Methods to be used)? N/A; An environmental evaluation is not part of this study.
7. How will samples be transported and preserved? N/A; see above.
8. What sampling methods will be used? Sampling will be conducted using standard penetration samplers and California modified samplers.
9. Are you proposing a variation from the methods and/or procedures presented in the requirements for the construction or destruction of Vadose and Groundwater Monitoring Wells (Current SAM Manual Requirements)? If yes, specify these variations and include a well construction diagram and all required supporting documentation. Refer to the SAM Manual Appendix B for monitoring well guidelines (www.sdcdeh.org). Yes ☐ No ☒ _____
10. Are you proposing a variation in drilling and destruction of soil borings from the methods and/or procedures specified in the current SAM manual? If yes, specify these variations and include a destruction diagram. Yes ☐ No ☒ _____
11. What procedures will be used to ensure that the drilling equipment will introduce no contamination? Drilling equipment will be cleaned prior to drilling.

12. What methods will be used to clean sampling equipment? N/A

13. What cleaning method will be used to clean casing and screen prior to installation? N/A

14. A Property Owner Consent (POC) agreement is required for all applications, except for onsite, open LOP/SAM site assessment cases, Caltrans properties and military properties.



County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933

www.sdcounty.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

10815 Ashwood Street 13950 El Monte Rd.

392-050-43-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to
Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations
stated above.

☐ Install _____ monitoring wells ☐ Destroy _____ monitoring wells ☒ Drill 1 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an
authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department
of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the
current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring
construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring
wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: [Signature] Date: 2/14/11

Print Name: Carlos V. Lugo Title: Director of Engineering

Company: Helix Water District

Mailing Address: 7811 University Avenue, La Mesa, CA 91942



County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

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619-338-2222/FAX 619-338-2315/1-800-253-9933

www.sdcounty.ca.gov/dehl/wq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

~~13334 Willow Road~~ 13950 El Monte Rd.

392-060-29-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations stated above.

☐ Install _____ monitoring wells

☐ Destroy _____ monitoring wells

☒ Drill 2 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: [Signature] Date: 2/14/11

Print Name: Carlos V. Lugo Title: Director of Engineering

Company: Helix Water District

Mailing Address: 7811 University Avenue, La Mesa, CA 91942



County of San Diego

GARY W. ERBECK
DIRECTOR

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www.sdcounty.ca.gov/dehl/wq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

13950 El Monte Road

392-150-17-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to
Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations
stated above.

☐ Install _____ monitoring wells

☐ Destroy _____ monitoring wells

☒ Drill 2 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an
authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department
of Environmental Health in which they have agreed to complete the above-stated work according to the requirements of the
current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring
construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring
wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: Carlos V. Hugo

Date: 2/14/11

Print Name: Carlos V. Hugo

Title: Director of Engineering

Company: Helix Water District

Mailing Address: 7811 University Avenue, La Mesa, CA 91942



County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
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www.sdcountry.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

44403 El Monte Road 13950 El Monte Rd

391-061-01-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to
Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations
stated above.

☐ Install _____ monitoring wells ☐ Destroy _____ monitoring wells ☒ Drill 12 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an
authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department
of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the
current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring
construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring
wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: [Signature] Date: 2/14/11

Print Name: Carlos V. Lugo Title: Director of Engineering

Company: Helix Water District

Mailing Address: 7811 University Avenue, La Mesa, CA 91942



County of San Diego

GARY W. ERBECK
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JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

~~45000 Willow Road~~ 13950 El Monte Rd.

391-071-04-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations stated above.

☐ Install _____ monitoring wells ☐ Destroy _____ monitoring wells ☒ Drill 4 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department of Environmental Health in which they have agreed to complete the above-stated work according to the requirements of the current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: Carlos V. Lugo Date: 2/14/11

Print Name: Carlos V. Lugo Title: Director of Engineering

Company: Helix Water District

Mailing Address: 7811 University Avenue, La Mesa, CA 91942



County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/dehl/wq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

~~14876 El Monte Road~~ 13950 El Monte Rd.

393-011-01-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to
Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations
stated above.

☐ Install _____ monitoring wells ☐ Destroy _____ monitoring wells ☒ Drill 3 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an
authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department
of Environmental Health in which they have agreed to complete the above-stated work according to the requirements of the
current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring
construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring
wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: [Signature] Date: 2/19/11

Print Name: Carlos V. Lugo Title: Director of Engineering

Company: Helix Water District

Mailing Address: 7811 University Avenue, La Mesa, CA 91942



County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
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www.sdcounty.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address:

Assessor's Parcel Number (APN):

~~45200 Willow Road~~ 13950 El Monte Rd

390-040-51-00

Lakeside, CA 92040

I, Helix Water District, owner of the property/properties listed above, give my permission to
Ninyo & Moore, Tri-County Drilling (consulting company, contractor) to conduct the following work at the locations
stated above.

☐ Install _____ monitoring wells

☐ Destroy _____ monitoring wells

☒ Drill 6 soil borings

I understand that Francis O. Moreland (registered professional) of Ninyo & Moore (consulting company) and an
authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department
of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the
current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring
construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring
wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: _____

Date: 2/14/11

Print Name: _____

Carlos V. Rugo

Title: _____

Director of Engineering

Company: _____

Helix Water District

Mailing Address: _____

7811 University Avenue, La Mesa, CA 91942

AS08 39205043

* * * ASSESSOR*S PROPERTY SYSTEM * * *

392-050-43-00 SITE:00000 ASHWOOD ST*\ TRA:82150
PD:2LOT 89*80.80 AC M/L IN TIMBER RESERVE&IN LOTS 81&82&85&86&IN\ STATUS:N
ZONE: USE: ACRES:00080.80 S-R:

OWNR:PANS#HELIX WATER DISTRICT\

CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\

0 LAND			MAP#:000289	
0 IMPS	PRIOR PN:392-050-40-00	ORIGIN	CUT#:001751	YR:90
0 PP		REDRAFT	CUT#:	YR:
0 X	PRIOR TRA:82006	TRA	CUT#:005115	YR:85

AS08 39206029

* * * ASSESSOR*S PROPERTY SYSTEM * * *

392-060-29-00 SITE: TRA:82150
PD:2TIMBER RESERVE*65.68 AC M/L IN UNMBD LOTS&IN LOTS 90&93&94&99&IN\ STATUS:N
ZONE: USE: ACRES:00065.68 S-R:

OWNR:PANS#HELIIX WATER DISTRICT\

CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\

0 LAND			MAP#:000289	
0 IMPS	PRIOR PN:392-060-12-00	ORIGIN	CUT#:002474	YR:77
0 PP		REDRAFT	CUT#:	YR:
0 X	PRIOR TRA:82006	TRA	CUT#:005115	YR:85

AS08 39215017

* * * ASSESSOR*S PROPERTY SYSTEM * * *

392-150-17-00	SITE:		TRA:82150
PD:2LOT 105*27.81 AC M/L IN TIMBER RESERVE&IN\			STATUS:N
ZONE:	USE:	ACRES:00027.81	S-R:

OWNR:PANS#HELIx WATER DISTRICT\
CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\
0 LAND

MAP#:000289

0 IMPS

PRIOR PN:392-150-04-00 ORIGIN CUT#:002475 YR:77

0 PP

REDRAFT CUT#: YR:

0 X

PRIOR TRA:82006 TRA CUT#:005115 YR:85

AS08 39215017

* * * ASSESSOR*S PROPERTY SYSTEM * * *

392-150-17-00	SITE:	TRA:82150
PD:2LOT 105*27.81 AC M/L IN TIMBER RESERVE&IN\		STATUS:N
ZONE:	USE:	ACRES:00027.81
		S-R:

OWNR:PANS#HELIX WATER DISTRICT\
CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\ 0 LAND		MAP#:000289
0 IMPS	PRIOR PN:392-150-04-00	ORIGIN CUT#:002475 YR:77
0 PP		REDRAFT CUT#: YR:
0 X	PRIOR TRA:82006	TRA CUT#:005115 YR:85

AS08 39106101

* * * ASSESSOR*S PROPERTY SYSTEM * * *

391-061-01-00	SITE:	TRA:82006
PD:2LOT 75*486.26 AC M/L IN LOTS 73 & 74 & 76 & IN\		STATUS:N
ZONE:	USE:	ACRES:00486.26
		S-R:

OWNR:PANS#HELIX WATER DISTRICT\
CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\ 0 LAND		MAP#:001146
0 IMPS	PRIOR PN:391-060-42-00	ORIGIN CUT#:003042 YR:66
0 PP		REDRAFT CUT#:010013 YR:75
0 X	PRIOR TRA:	TRA CUT#: YR:

AS08 39107104

* * * ASSESSOR*S PROPERTY SYSTEM * * *

391-071-04-00	SITE:		TRA:82006
PD:2LOT 77*89.68 AC M/L IN LOTS 70&71&76&IN\			STATUS:N
ZONE:	USE:	ACRES:00089.68	S-R:

OWNR:PANS#HELIX WATER DISTRICT\

CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\

0 LAND			MAP#:DB0170PG071
0 IMPS	PRIOR PN:391-071-01-00	ORIGIN	CUT#:002477 YR:77
0 PP		REDRAFT	CUT#: YR:
0 X	PRIOR TRA:	TRA	CUT#: YR:

AS08 39004051

* * * ASSESSOR*S PROPERTY SYSTEM * * *

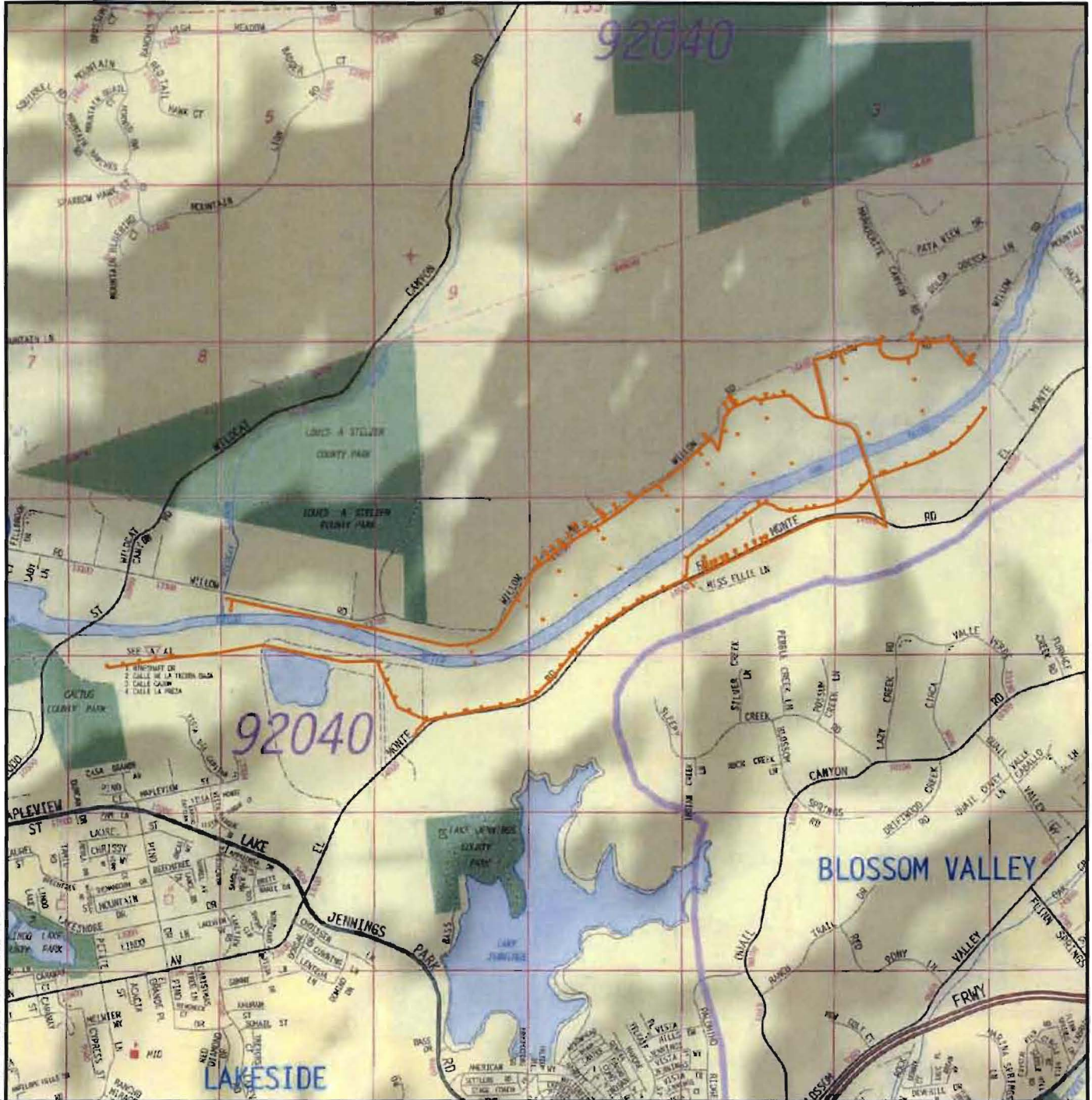
390-040-51-00	SITE:	TRA:82006
PD:2LOT 80*129.63 AC M/L IN LOTS 76&77&IN\		STATUS:N
ZONE:	USE:	ACRES:00129.63
		S-R:

OWNR:PANS#HELIX WATER DISTRICT\

CODES: 1 DOC#:0060137 DATE:03/07/73 ZIP:00000

MAIL:PUBLIC AGENCY\

0 LAND		MAP#:DB0170PG071
0 IMPS	PRIOR PN:390-040-27-00	ORIGIN CUT#:002476 YR:77
0 PP		REDRAFT CUT#: YR:
0 X	PRIOR TRA:	TRA CUT#: YR:

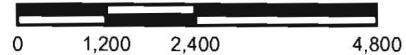


SOURCE: 2008 Thomas Guide for Ventura County, Street Guide and Directory, Map Rand McNally, R.L.07-S-129

LEGEND

— PROJECT ALIGNMENT

SCALE IN FEET



NOTE: ALL DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore

SITE LOCATION

FIGURE

PROJECT NO.	DATE
106200005	1/11

HELIX WATER DISTRICT
EL MONTE VALLEY MINING, RECLAMATION,
AND GROUNDWATER RECHARGE PROJECT
LAKESIDE, CALIFORNIA

1



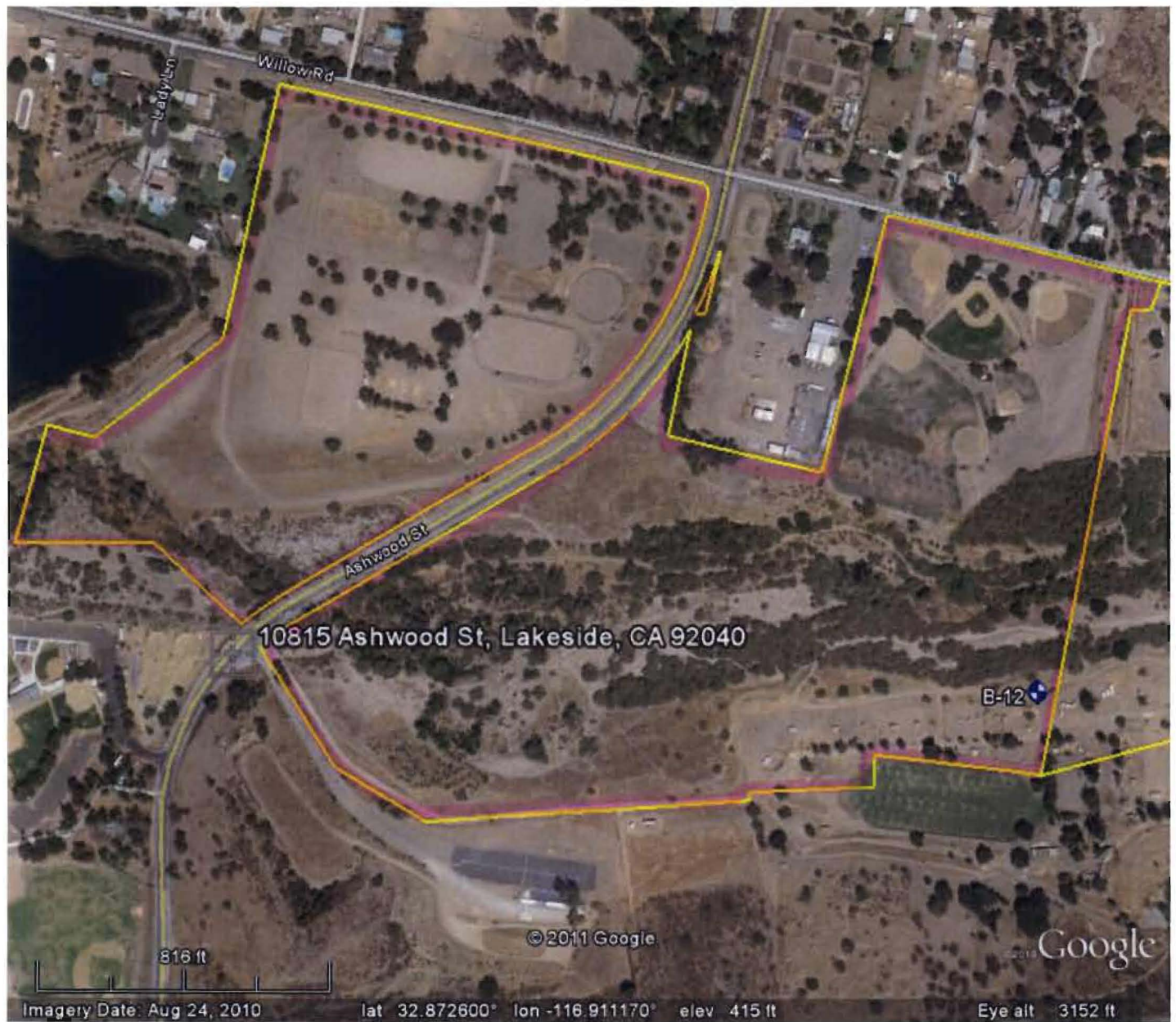
APN and PROPOSED BORING LOCATION MAP

✦ B-30 Proposed boring location



APN: 392-060-29-00

2 borings: B-1
B-13



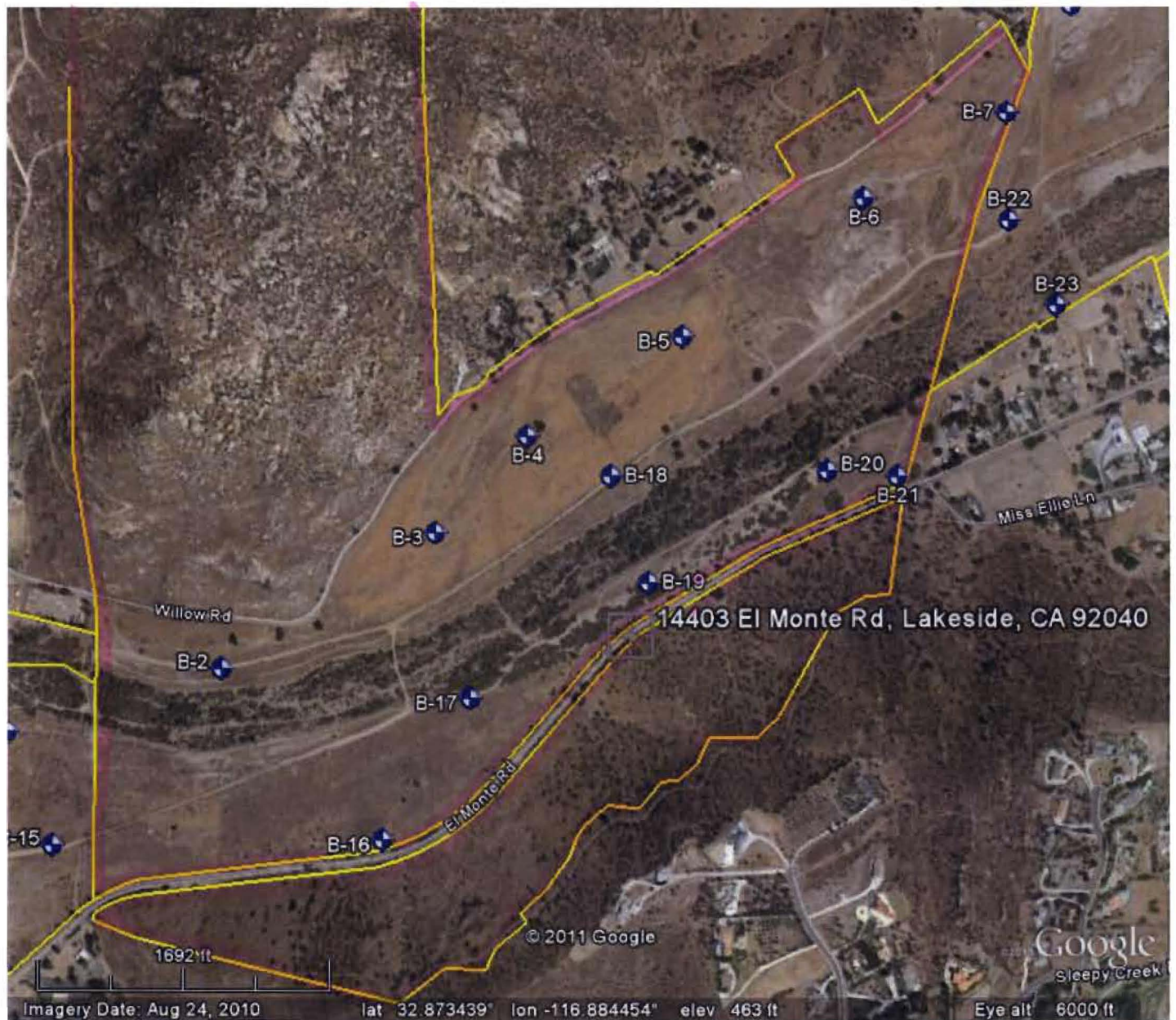
APN: 392-050-43-00

1 boring : B-12



APN: 392-150-17-00

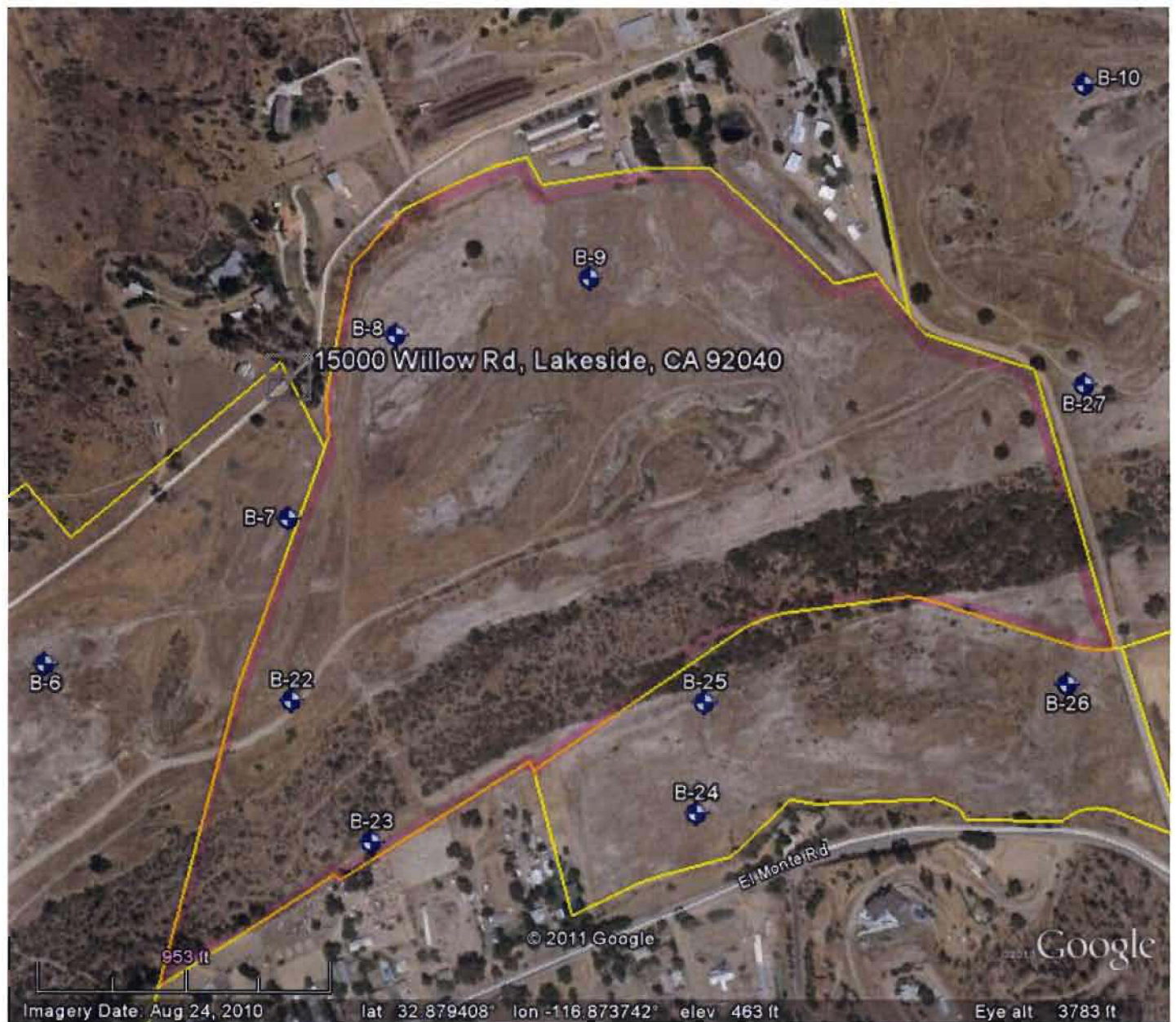
2 borings: B-14
B-15



APN: 391-061-01-00

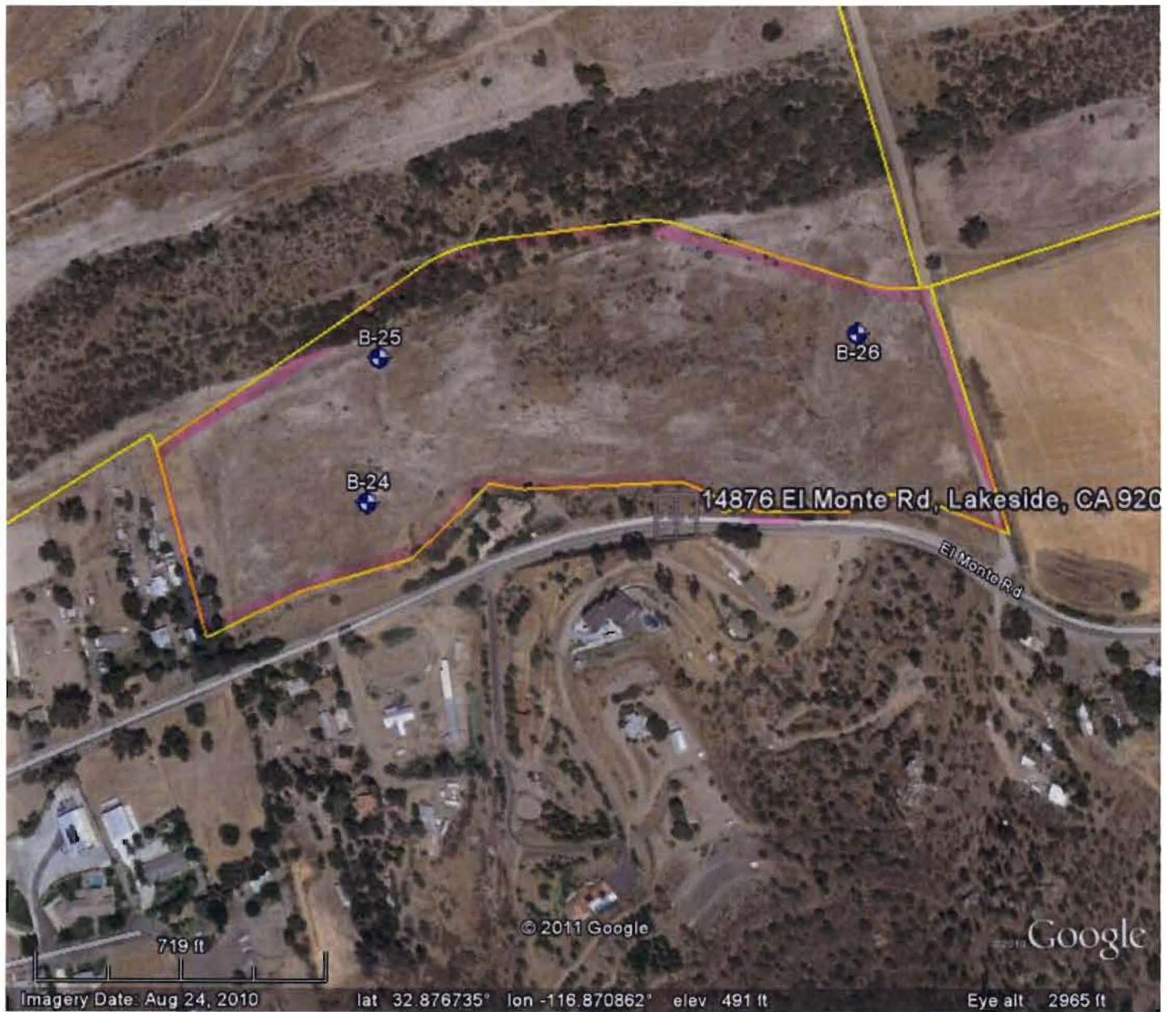
12 borings:

B-2	B-16
B-3	B-17
B-4	B-18
B-5	B-19
B-6	B-20
B-7	B-21



APN: 391-071-04-00

4 borings : B-8
B-9
B-22
B-23



APN: 393-011-01-00

3 borings: B-24
B-25
B-26



APN: 390-040-51-00

6 borings: B-10
B-11
B-27
B-28
B-29
B-30