

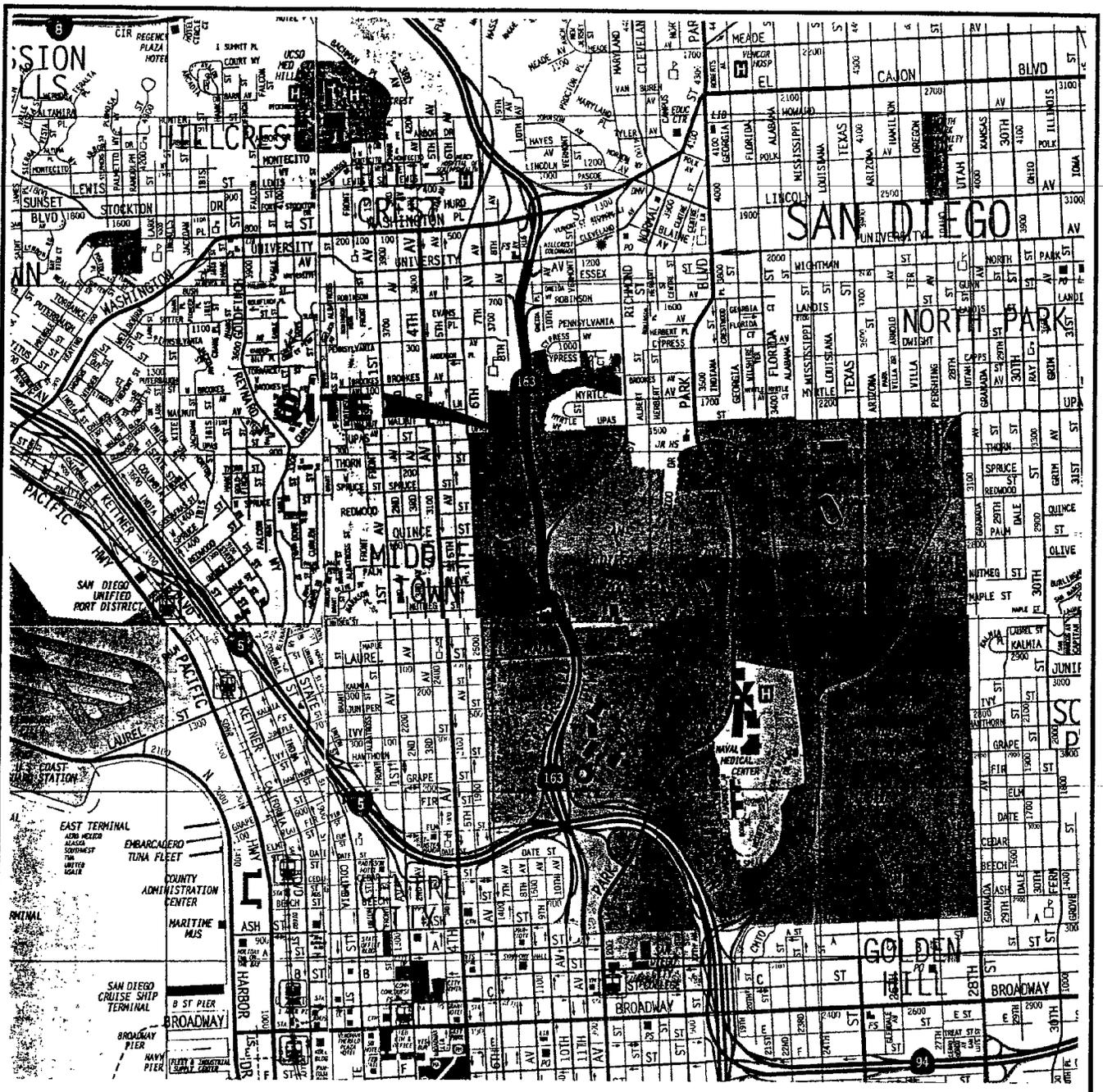
FOR CONTRACT NO.: 11-265014

INFORMATION HANDOUT

MATERIALS INFORMATION

AERIALY DEPOSITED LEAD TEST BORINGS

ROUTE: 11-SD-5, 163, R15.7/R16.3, 0.5/3.2



SOURCE : 1999 THOMAS BROTHERS MAP
SAN DIEGO COUNTY, CALIFORNIA

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NO SCALE

GEOCON



ENVIRONMENTAL CONSULTANTS INCORPORATED
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MAB / GBP

DSK / E0000

VICINITY MAP

ROUTE 163 FROM THE LAUREL STREET BRIDGE
TO THE UNIVERSITY AVENUE OVERCROSSING
SAN DIEGO, CALIFORNIA

DATE

PROJECT NO. 08900 - 06 - 44

FIG. 1



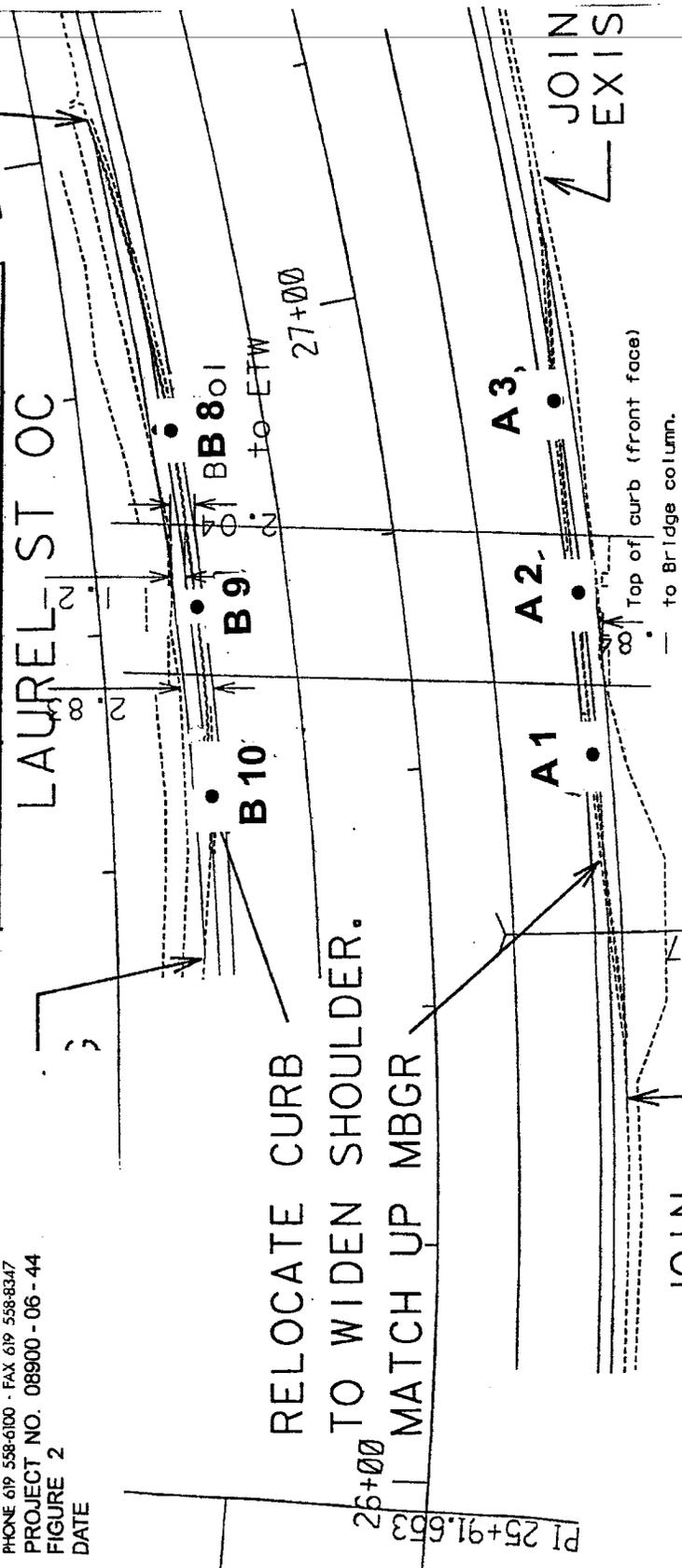
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PROJECT NO. 08900 - 06 - 44
 FIGURE 2
 DATE

BORING LOCATION MAP

ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA



RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil.

Blue line = Edge of Traveled Way (2 lanes = 7.32 m wide)

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
A1-S	0.15	788	81	ND	6.8
A1-1	0.30	10	---	---	---
A1-1.5	0.45	4.1	---	---	---
A2-S	0.15	326	48	0.17	---
A2-1	0.30	853	81	0.26	---
A2-2	0.60	603	41	0.31	---
A3-S	0.15	247	24	0.50	---
A3-1	0.30	85	5.6	0.20	---
A3-1.5	0.45	134	12	0.23	---

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
B8-S	0.15	441	25	ND	---
B8-1	0.30	145	14	ND	---
B8-2	0.60	229	12	0.23	---
B9-S	0.15	193	29	ND	---
B9-1	0.30	485	65	2.5	---
B9-2	0.60	666	60	0.86	---
B10-S	0.15	101	10	ND	---
B10-1	0.30	20	---	---	---
B10-2	0.60	5.6	---	---	---

2.41
 1.50)
 OC

JOIN EXISTING

JOIN EXISTING

JOIN EXISTING



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PROJECT NO. 08900 - 06 - 44
 FIGURE 3
 DATE

BORING LOCATION MAP
 ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE
 UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA

JOIN
 EXISTING

REMOVE CURBED GORE
 BEFORE 7m MARK
 PLACE AC

HEADWALL

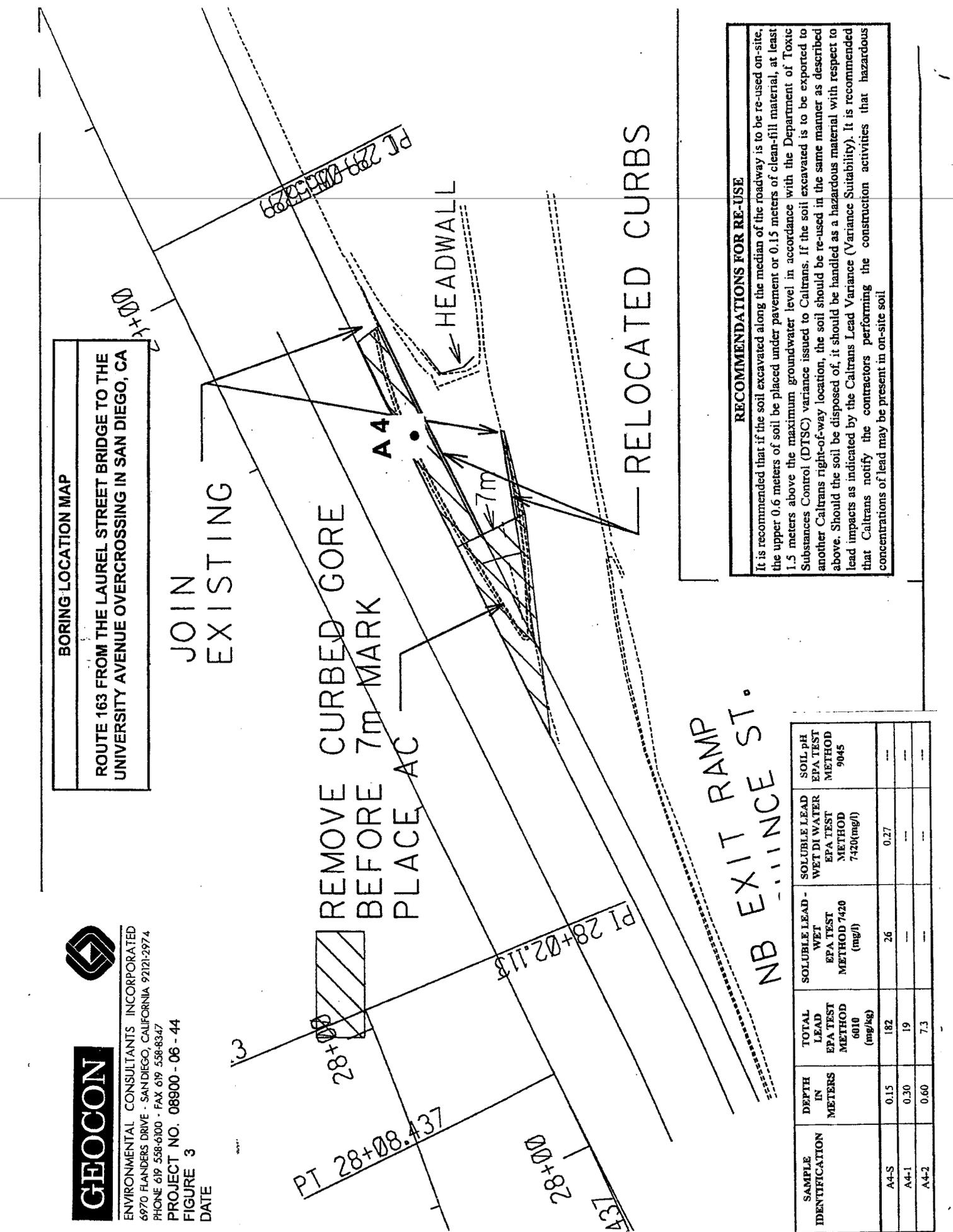
RELOCATED CURBS

NB EXIT RAMP
 UNFINISHED ST.

RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil.

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET TEST EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
A4-S	0.15	182	26	0.27	---
A4-1	0.30	19	---	---	---
A4-2	0.60	7.3	---	---	---



BORING LOCATION MAP

ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA

JOIN EXISTING

QUINCE ST
OC

THE GAP
FENCE
THE PARK TRAIL IS.

PI 30+10.345

REMOVE GORE

JOIN EXISTING

PI 31

30+00

A 6

A 5

B 5

B 6

B 7

RECOMMENDATIONS FOR RE-USE
It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
A5-S	0.15	114	16	0.36	---
A5-1	0.30	9.8	---	---	---
A5-2	0.60	34	---	---	---
A6-S	0.15	825	62	0.21	---
A6-1	0.30	108	12	ND	8.4
A6-1.5	0.45	66	3.1	ND	---

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
B5-S	0.15	214	22	ND	---
B5-1	0.30	261	31	0.66	---
B5-2	0.60	4.5	---	---	---
B6-S	0.15	47	---	---	---
B6-1	0.30	202	20	ND	---
B6-1.5	0.45	125	22	ND	7.6
B7-S	0.15	135	19	0.36	---
B7-1	0.30	17	---	---	---
B7-2	0.60	14	---	---	---



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PROJECT NO. 08900 - 06 - 44
FIGURE 4
DATE

MATCH UP MBGR

1/1/12



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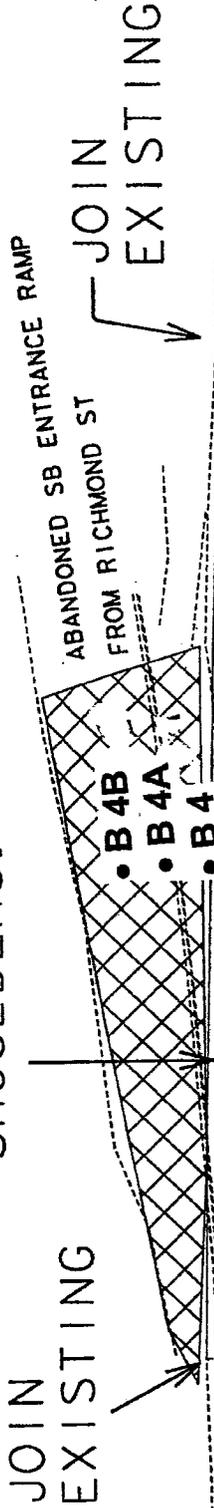
PROJECT NO. 08900 - 06 - 44
FIGURE 5
DATE

VE (/IDE 2.4 M
SILLIDERS.

BORING LOCATION MAP

ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE
UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA

PLANT LANDSCAPE



PC 322+115666

31+00

32+00

JOIN EXISTING

A7 - Relocate curb

0.92

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
B4-S	0.15	786	54	0.91	---
B4-1	0.30	8.1	---	---	---
B4-2	0.60	10	---	---	---
B4A-S	0.15	89	15	ND	6.1
B4A-1	0.30	25	---	---	---
B4A-2	0.60	11	---	---	---
B4B-S	0.15	488	33	0.27	---
B4B-1	0.30	13	---	---	---
B4B-1.5	0.45	22	---	---	---
A7-S	0.15	710	39	0.57	---
A7-1	0.30	6.6	---	---	---
A7-2	0.60	2.7	---	---	6.9

RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil

ORE

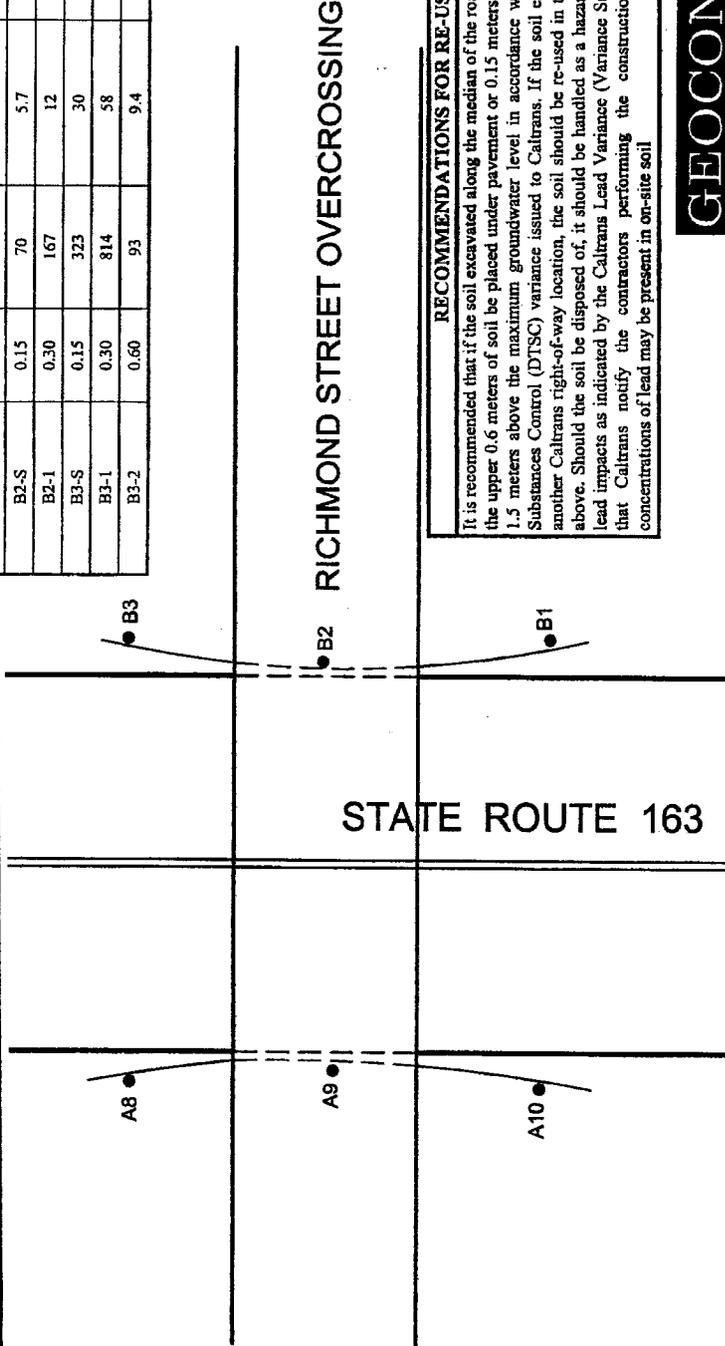
Existing ionoscope begins

7m

ROUTE 163 FROM LAUREL STREET BRIDGE TO THE UNIVERSITY AVENUE OVERCROSSING SAN DIEGO, CALIFORNIA

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
A8-S	0.15	1620	119	0.23	---
A8-1	0.30	582	52	0.36	---
A8-2	0.60	1860	142	0.31	---
A9-S	0.15	76	4.5	0.21	---
A9-1	0.30	4.9	---	---	---
A9-1.5	0.45	11	---	---	---
A10-S	0.15	846	26	0.59	---
A10-1	0.30	14	---	---	---
A10-2	0.60	3.6	---	---	---

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD - WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
B1-S	0.15	455	41	0.38	7.0
B1-1	0.30	146	14	0.24	---
B1-2	0.60	221	23	0.27	---
B2-S	0.15	70	5.7	ND	---
B2-1	0.30	167	12	ND	---
B3-S	0.15	323	30	ND	---
B3-1	0.30	814	58	0.41	---
B3-2	0.60	93	9.4	ND	---



RICHMOND STREET OVERCROSSING

RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil.

LEGEND
A10 ● APPROX. LOCATION OF BORING

SITE PLAN

PROJECT NO. 08900 - 06 - 44
FIGURE 6
DATE



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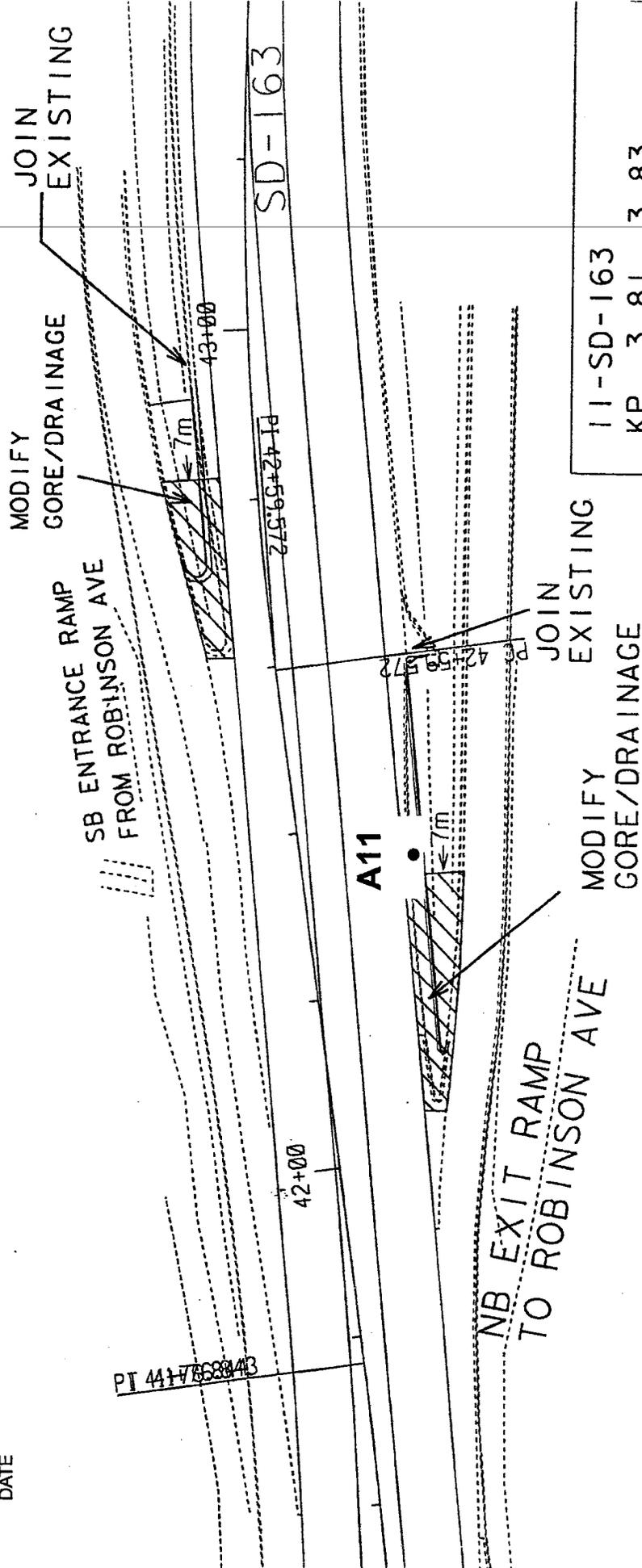


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 5970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
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PROJECT NO. 08900 - 06 - 44
 FIGURE 7
 DATE

BORING LOCATION MAP
 ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE
 UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA



11-SD-163
 KP 3.81, 3.83
 (PM 2.37, 2.38)
 ROBINSON AVE RAMP

JOIN EXISTING
 MODIFY GORE/DRAINAGE

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
A11-S	0.15	228	17	0.52	---
A11-1	0.30	239	8.3	ND	7.3
A11-2	0.60	2.1	---	---	---

RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil

ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA

ROBINSON AVE OC

SHOULDER TO 2.4 M PROPERLY ALIGN MBGR TO CURB

- B 11C
- B 11B
- B 11A
- B 11

SD-163

44+00

PI 44+57.194

WIDEN SHOULDER

RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil

ROBINSON AVE SHEET OF



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PROJECT NO. 08900 - 06 - 44
FIGURE 8
DATE

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD WET DI WATER EPA TEST METHOD 7420 (mg/l)	SOIL pH EPA TEST METHOD 9045
B11-S	0.15	946	86	0.32	---
B11-1	0.30	84	15	0.30	7.3
B11-2	0.60	4.3	---	---	---
B11A-S	0.15	1880	158	0.49	---
B11A-1	0.30	878	59	0.31	---
B11A-2	0.60	9.1	---	---	---
B11B-S	0.15	1250	163	0.82	---
B11B-1	0.30	471	44	0.32	---
B11B-2	0.60	4.8	---	---	---
B11C-S	0.15	207	25	0.77	---
B11C-1	0.30	43	---	---	---
B11C-2	0.60	8.9	---	---	---



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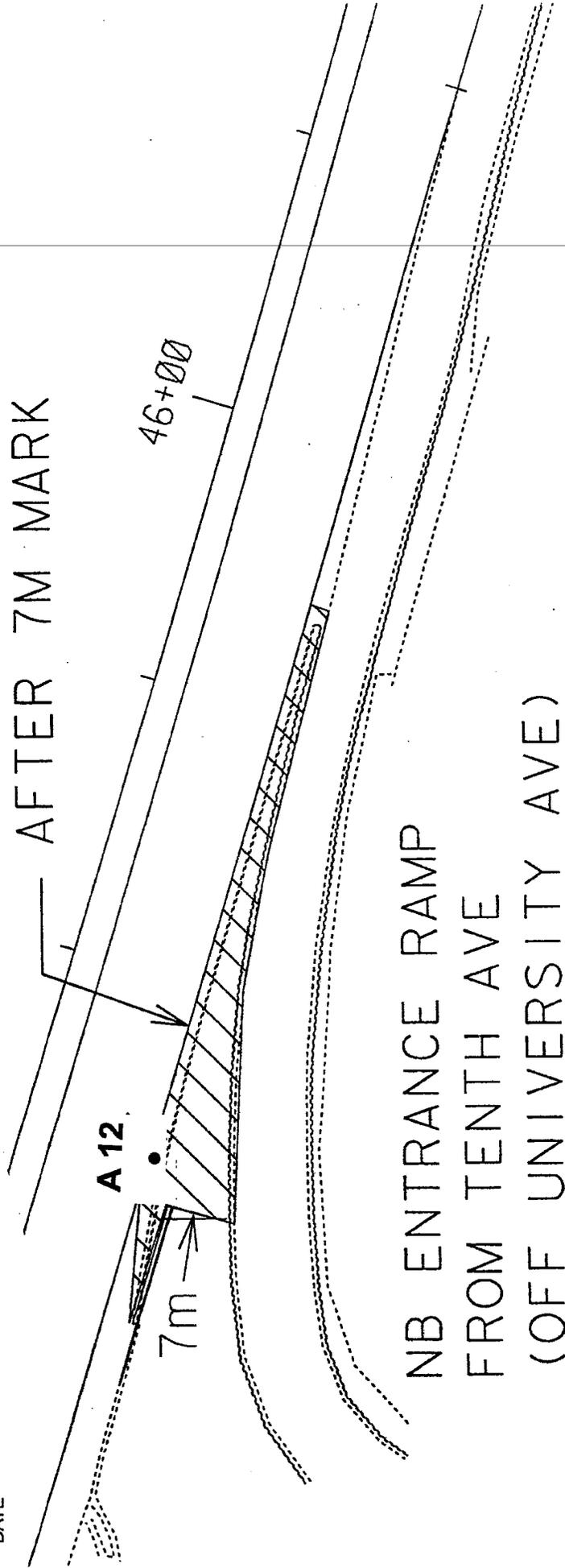
ENVIRONMENTAL CONSULTANTS INCORPORATED
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
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PROJECT NO. 08900 - 06 - 44
FIGURE 9
DATE

BORING LOCATION MAP

ROUTE 163 FROM THE LAUREL STREET BRIDGE TO THE
UNIVERSITY AVENUE OVERCROSSING IN SAN DIEGO, CA

REMOVE CURBED GORE
AFTER 7M MARK



11-SD-163

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LEAD WET DI WATER EPA TEST METHOD 7420(mg/l)	SOIL pH EPA TEST METHOD 9045
A12-S	0.15	97	6.9	ND	---
A12-1	0.30	11	---	---	---
A12-2	0.60	134	10	ND	8.0

RECOMMENDATIONS FOR RE-USE

It is recommended that if the soil excavated along the median of the roadway is to be re-used on-site, the upper 0.6 meters of soil be placed under pavement or 0.15 meters of clean-fill material, at least 1.5 meters above the maximum groundwater level in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. If the soil excavated is to be exported to another Caltrans right-of-way location, the soil should be re-used in the same manner as described above. Should the soil be disposed of, it should be handled as a hazardous material with respect to lead impacts as indicated by the Caltrans Lead Variance (Variance Suitability). It is recommended that Caltrans notify the contractors performing the construction activities that hazardous concentrations of lead may be present in on-site soil

TABLE I

SUMMARY OF ANALYTICAL LABORATORY RESULTS

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LAD WET DI WATER EPA TEST METHOD 7420 (mg/l)	SOIL pH EPA TEST METHOD 9045
A1-S	0.15	788	81	ND	6.8
A1-1	0.30	10	---	---	---
A1-1.5	0.45	4.1	---	---	---
A2-S	0.15	326	48	0.17	---
A2-1	0.30	853	81	0.26	---
A2-2	0.60	603	41	0.31	---
A3-S	0.15	247	24	0.50	---
A3-1	0.30	85	5.6	0.20	---
A3-1.5	0.45	134	12	0.23	---
A4-S	0.15	182	26	0.27	---
A4-1	0.30	19	---	---	---
A4-2	0.60	7.3	---	---	---
A5-S	0.15	114	16	0.36	---
A5-1	0.30	9.8	---	---	---
A5-2	0.60	34	---	---	---
A6-S	0.15	825	62	0.21	---
A6-1	0.30	108	12	ND	8.4
A6-1.5	0.45	66	3.1	ND	---
A7-S	0.15	710	39	0.57	---
A7-1	0.30	6.6	---	---	---
A7-2	0.60	2.7	---	---	6.9
A8-S	0.15	1620	119	0.23	---
A8-1	0.30	582	52	0.36	---
A8-2	0.60	1860	142	0.31	---
A9-S	0.15	76	4.5	0.21	---
A9-1	0.30	4.9	---	---	---
A9-1.5	0.45	11	---	---	---
A10-S	0.15	846	26	0.59	---
A10-1	0.30	14	---	---	---
A10-2	0.60	3.6	---	---	---

TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY RESULTS

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LAD WET DI WATER EPA TEST METHOD 7420 (mg/l)	SOIL pH EPA TEST METHOD 9045
A11-S	0.15	228	17	0.52	---
A11-1	0.30	239	8.3	ND	7.3
A11-2	0.60	2.1	---	---	---
A12-S	0.15	97	6.9	ND	---
A12-1	0.30	11	---	---	---
A12-2	0.60	134	10	ND	8.0
B1-S	0.15	455	41	0.38	7.0
B1-1	0.30	146	14	0.24	---
B1-2	0.60	221	23	0.27	---
B2-S	0.15	70	5.7	ND	---
B2-1	0.30	167	12	ND	---
B3-S	0.15	323	30	ND	---
B3-1	0.30	814	58	0.41	---
B3-2	0.60	93	9.4	ND	---
B4-S	0.15	786	54	0.91	---
B4-1	0.30	8.1	---	---	---
B4-2	0.60	10	---	---	---
B4A-S	0.15	89	15	ND	6.1
B4A-1	0.30	25	---	---	---
B4A-2	0.60	11	---	---	---
B4B-S	0.15	488	33	0.27	---
B4B-1	0.30	13	---	---	---
B4B-1.5	0.45	22	---	---	---
B5-S	0.15	214	22	ND	---
B5-1	0.30	261	31	0.66	---
B5-2	0.60	4.5	---	---	---
B6-S	0.15	47	---	---	---
B6-1	0.30	202	20	ND	---
B6-1.5	0.45	125	22	ND	7.6
B7-S	0.15	135	19	0.36	---

TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY RESULTS

SAMPLE IDENTIFICATION	DEPTH IN METERS	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD WET EPA TEST METHOD 7420 (mg/l)	SOLUBLE LAD WET DI WATER EPA TEST METHOD 7420 (mg/l)	SOIL pH EPA TEST METHOD 9045
B7-1	0.30	17	---	---	---
B7-2	0.60	14	---	---	---
B8-S	0.15	441	25	ND	---
B8-1	0.30	145	14	ND	---
B8-2	0.60	229	12	0.23	---
B9-S	0.15	193	29	ND	---
B9-1	0.30	485	65	2.5	---
B9-2	0.60	666	60	0.86	---
B10-S	0.15	101	10	ND	---
B10-1	0.30	20	---	---	---
B10-2	0.60	5.6	---	---	---
B11-S	0.15	946	86	0.32	---
B11-1	0.30	84	15	0.30	7.3
B11-2	0.60	4.3	---	---	---
B11A-S	0.15	1880	158	0.49	---
B11A-1	0.30	878	59	0.31	---
B11A-2	0.60	9.1	---	---	---
B11B-S	0.15	1250	163	0.82	---
B11B-1	0.30	471	44	0.32	---
B11B-2	0.60	4.8	---	---	---
B11C-S	0.15	207	25	0.77	---
B11C-1	0.30	43	---	---	---
B11C-2	0.60	8.9	---	---	---

Note:

- mg/kg = milligrams per kilogram
- mg/l = milligrams per liter
- = analysis not performed
- EPA = United States Environmental Protection Agency