

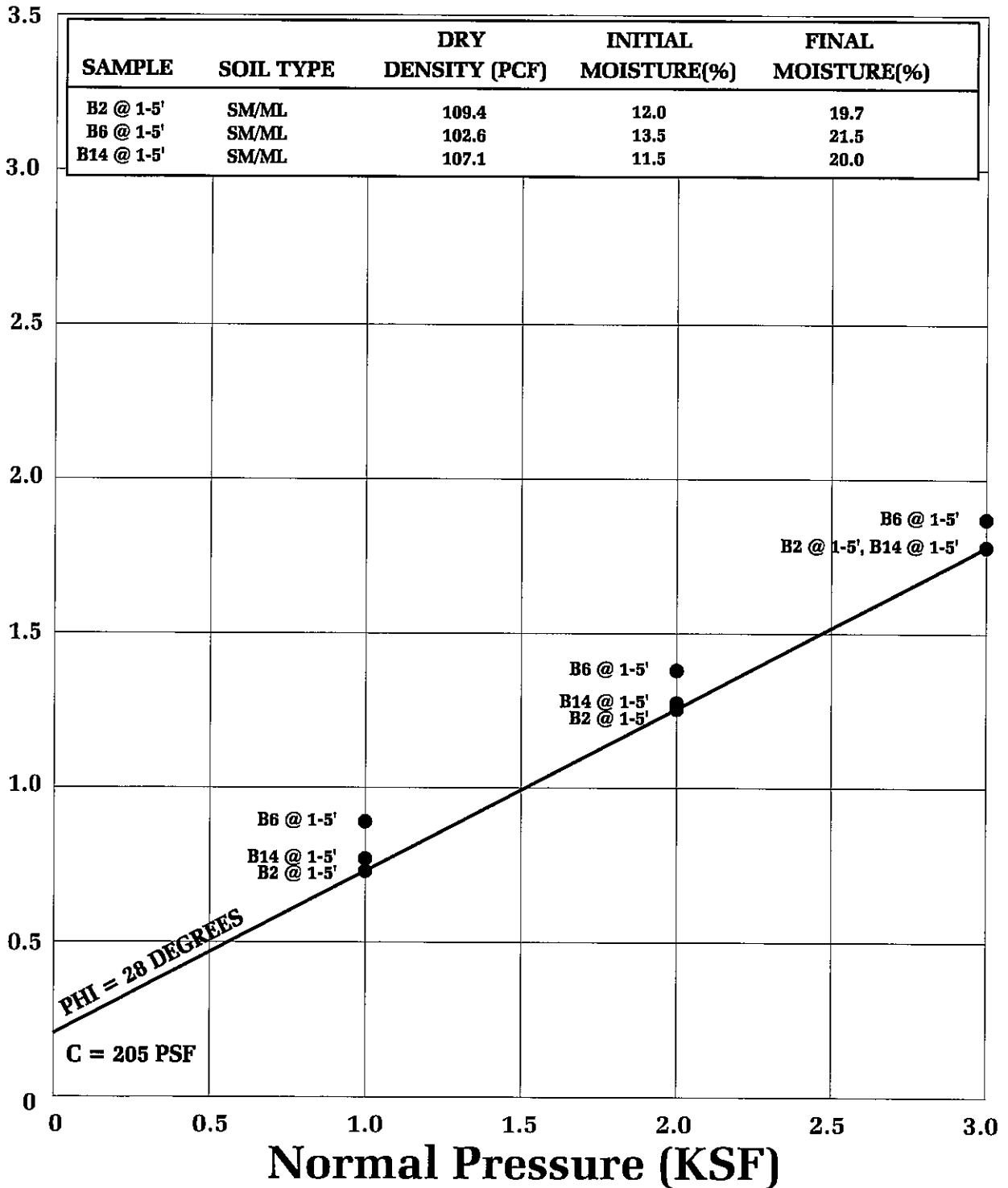
# BORING LOG NUMBER 15

Project: File No. 19593

AMCAL Multi-Housing

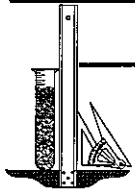
Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description			
30	34	26.4	98.8	-					
				26 --					
				-					
				27 --					
				-					
				28 --					
				-					
				29 --					
				-					
				30 --			ML/SM	Clayey Silt to Silty Sand, gray, moist, medium dense, fine grained, medium stiff	
				-					
				31 --					
				-					
				32 --					Total depth: 30 feet
				-					No Water
				33 --					Fill to 1 foot
				-					
				34 --					
				-					
				35 --					
				-					
				36 --					
				-					
				37 --					
				-					
38 --									
-									
39 --									
-									
40 --									
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41 --									
-									
42 --									
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43 --									
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44 --									
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45 --									
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46 --									
-									
47 --									
-									
48 --									
-									
49 --									
-									
50 --									
-									

**BULK SAMPLE REMOLDED TO 90 PERCENT  
OF THE MAXIMUM LABORATORY DENSITY**



● Direct Shear, Saturated

**SHEAR TEST DIAGRAM**

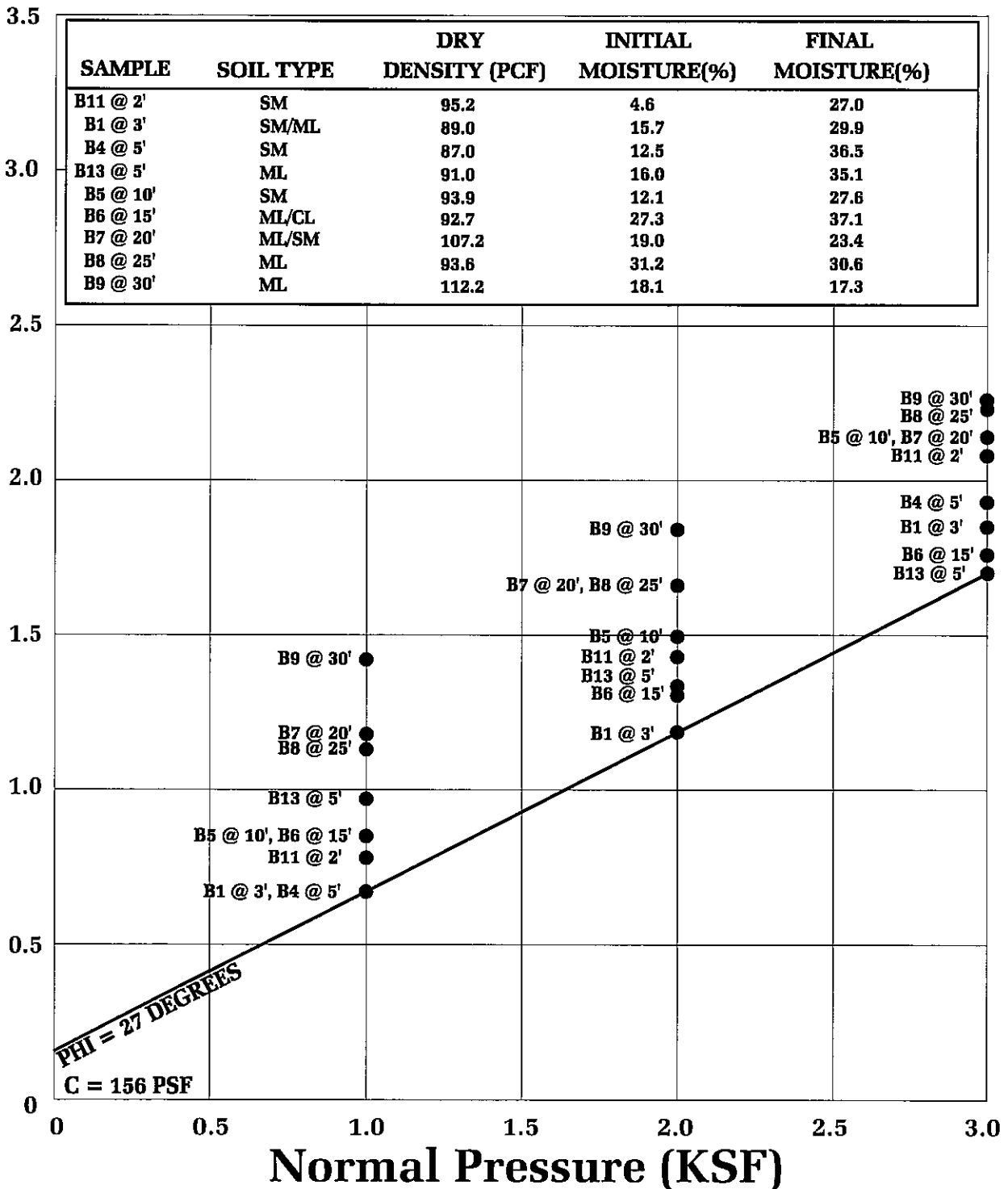


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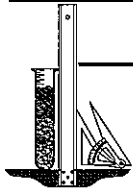
AMCAL MULTI-HOUSING, INC.

FILE NO. 19593

PLATE: B-1



### SHEAR TEST DIAGRAM



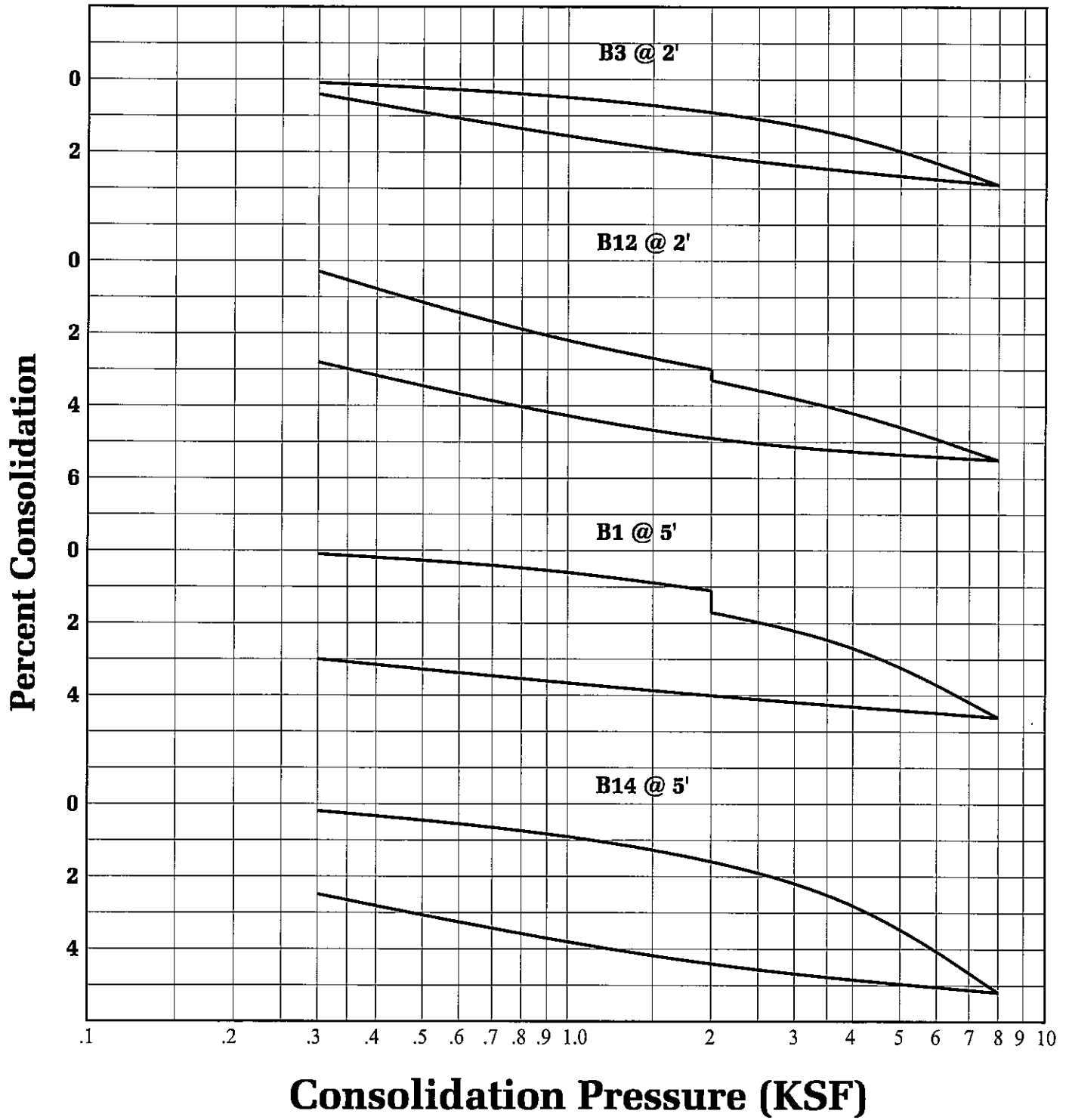
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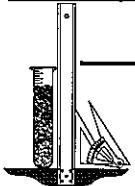
FILE NO. 19593

PLATE: B-2

Water Added At 2 KSF



**CONSOLIDATION TEST**



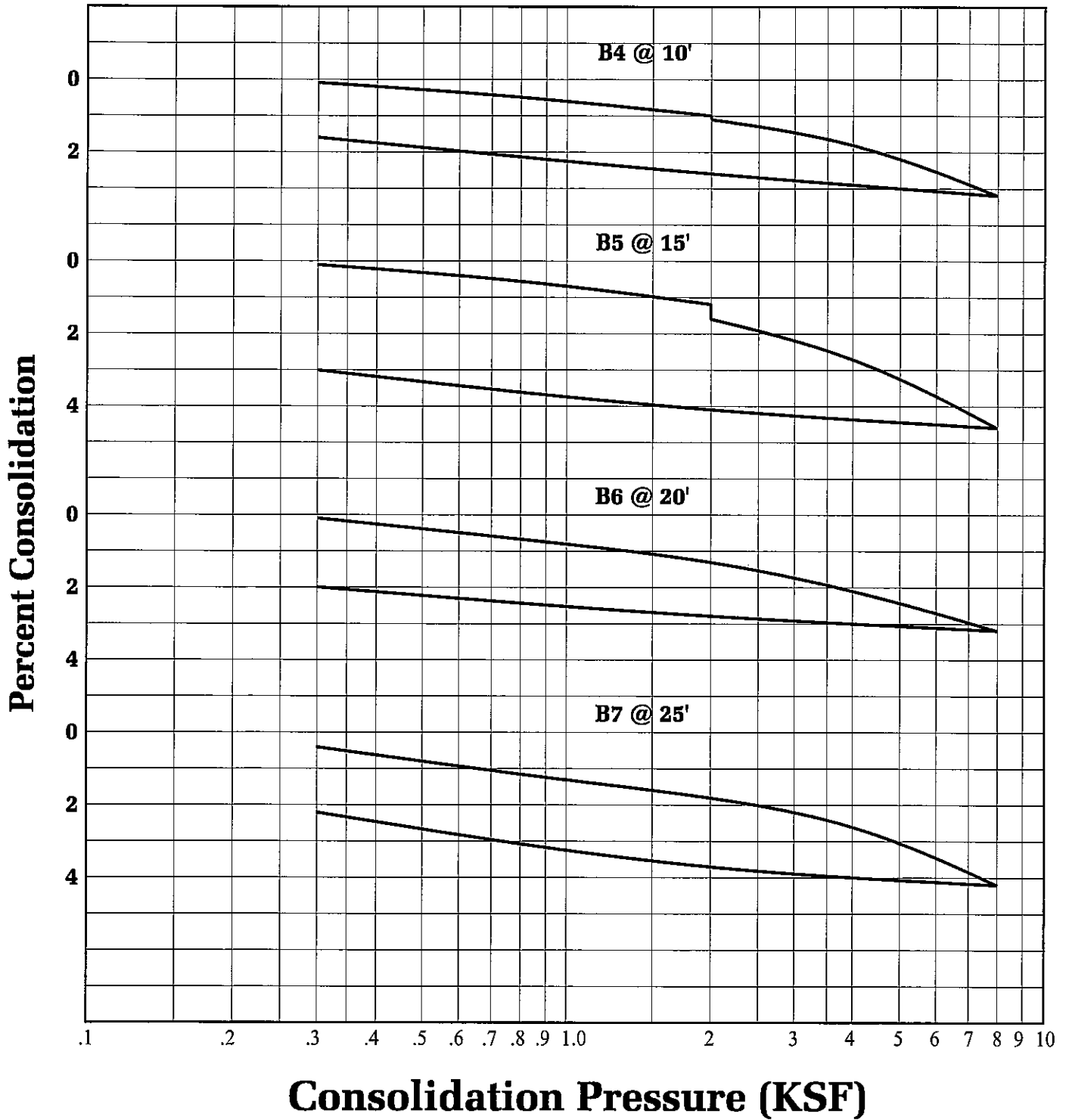
**Geotechnologies, Inc.**  
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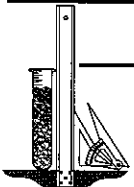
FILE NO. 19593

PLATE: C-1

Water Added At 2 KSF



**CONSOLIDATION TEST**



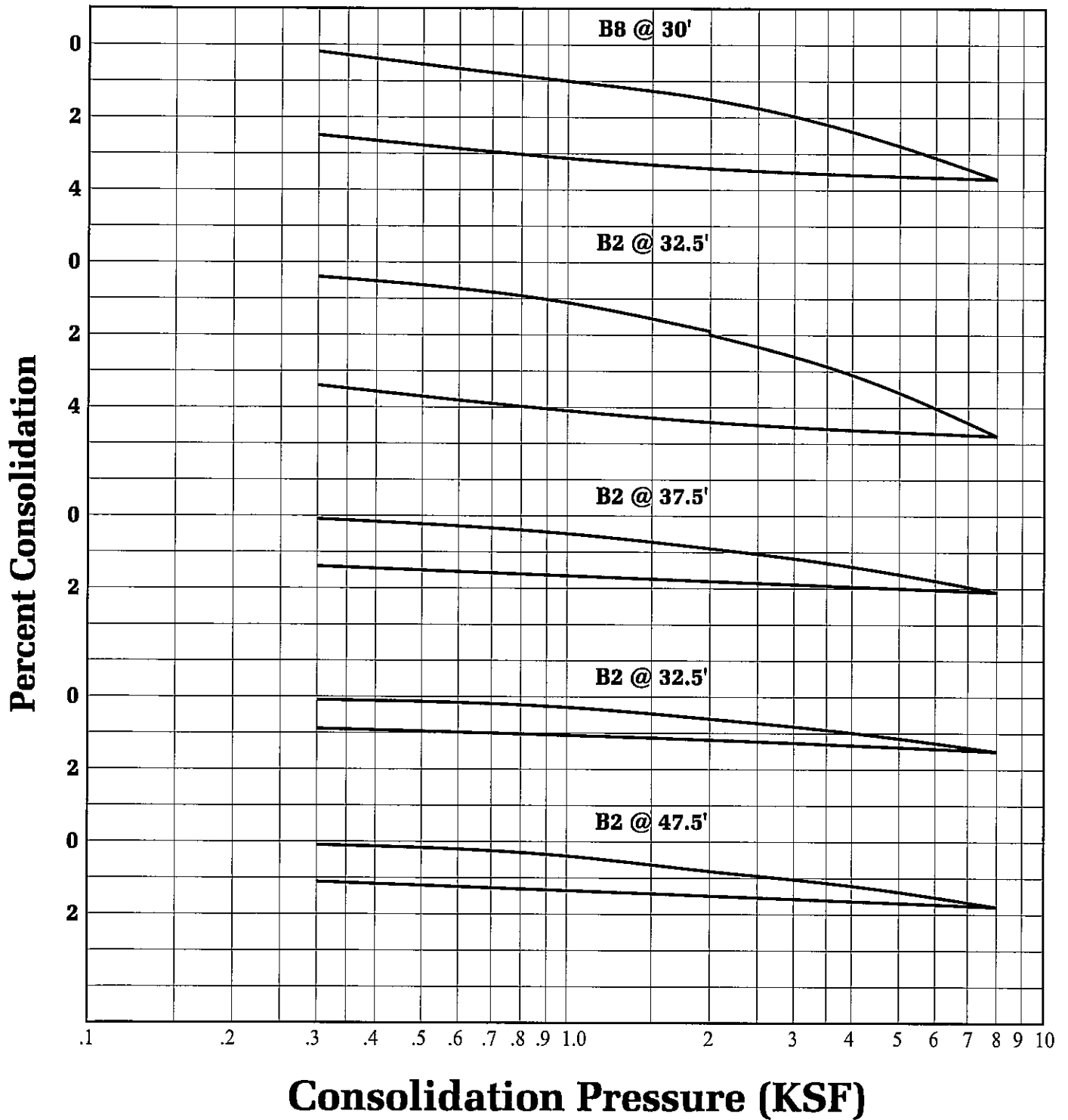
**Geotechnologies, Inc.**  
 Consulting Geotechnical Engineers

AMCAL MULTI-HOUSING, INC.

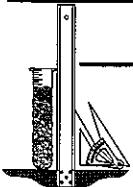
FILE NO. 19593

PLATE: C-2

Water Added At 2 KSF



**CONSOLIDATION TEST**



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FILE NO. 19593

PLATE: C-3

**ASTM D 1557-02**

SAMPLE	B2 @ 1- 5'	B6 @ 1-5'	B14 @ 1-5'
SOIL TYPE:	SM/ML	SM	SM/SP
MAXIMUM DENSITY pcf.	121.5	119.0	114.0
OPTIMUM MOISTURE %	12.0	11.5	13.5

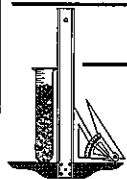
**ASTM D 4829-03**

SAMPLE	B2 @ 1- 5'	B6 @ 1-5'	B14 @ 1-5'
SOIL TYPE:	SM/ML	SM	SM/SP
EXPANSION INDEX UBC STANDARD 18-2	18	4	7
EXPANSION CHARACTER	<u>VERY LOW</u>	<u>VERY LOW</u>	<u>VERY LOW</u>

**SULFATE CONTENT**

SAMPLE	B2 @ 1- 5'	B6 @ 1-5'	B14 @ 1-5'
SULFATE CONTENT: (percentage by weight)	< 0.10%	< 0.20%	< 0.20%

**COMPACTION/EXPANSION/SULFATE DATA SHEET**



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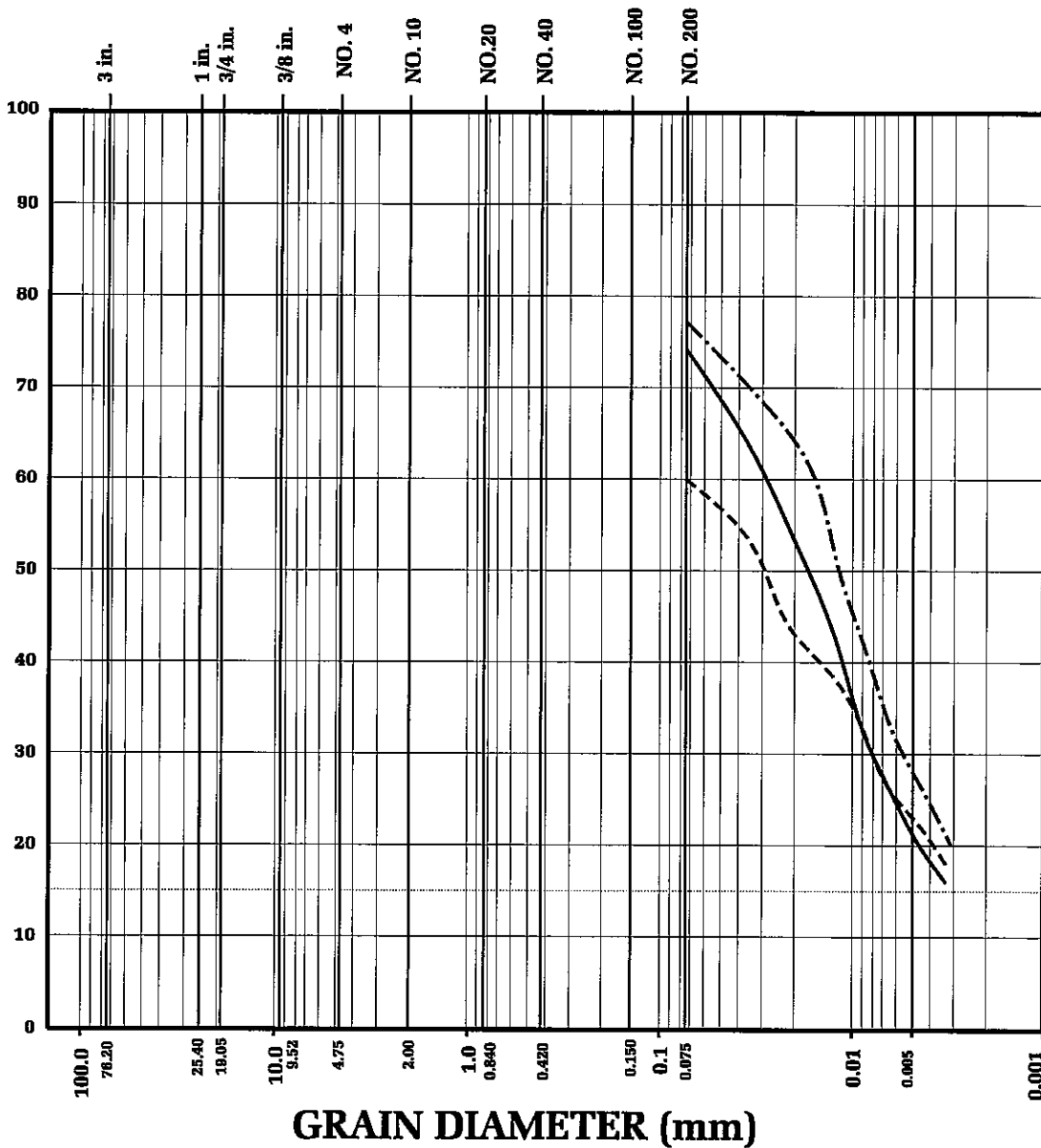
FILE NO. 19593

PLATE: D

GRAVEL	SAND		SILT	CLAY
	MEDIUM TO COARSE	FINE		

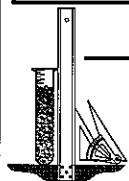
U.S. Standard Sieve Sizes

PERCENT PASSING NO. 200 SIEVE



SAMPLE	UNIFIED SOIL CLASSIFICATION
1- B2 @ 30'	ML
2- B2 @ 32.5'	CL
3- B2 @ 50'	CL

## GRAIN SIZE DISTRIBUTION



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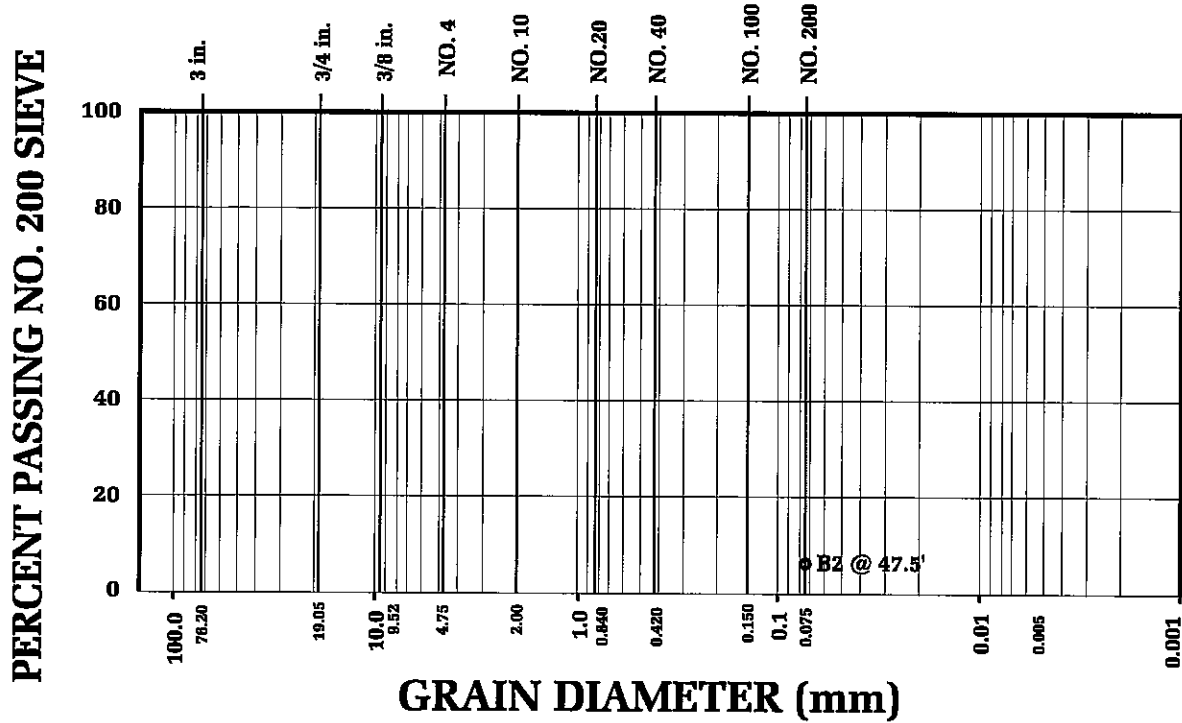
FILE NO. 19593

PLATE: E-1



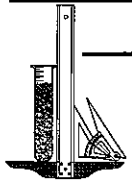
GRAVEL	SAND		SILT	CLAY
	MEDIUM TO COARSE	FINE		

**U.S. Standard Sieve Sizes**



SAMPLE	PERCENT PASSING NO. 200 SIEVE
B2 @ 47.5'	6.4

## GRAIN SIZE ANALYSIS

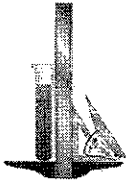


**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

AMCAL MULTI-HOUSING, INC.

FILE NO. 19593

PLATE: E-2



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*****  
*                               *  
*   E Q F A U L T   *  
*                               *  
*   Version 3.00   *  
*                               *  
*****
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DETERMINISTIC ESTIMATION OF  
PEAK ACCELERATION FROM DIGITIZED FAULTS

JOB NUMBER: 19593

DATE: 02-04-2008

JOB NAME: AMCAL Multi Housing, Inc

CALCULATION NAME: AMCAL Multi Housing, Inc

FAULT-DATA-FILE NAME: CGSFLTE.DAT

SITE COORDINATES:

SITE LATITUDE: 33.8610

SITE LONGITUDE: 118.1855

SEARCH RADIUS: 60 mi

ATTENUATION RELATION: 3) Boore et al. (1997) Horiz. - NEHRP D (250)

UNCERTAINTY (M=Median, S=Sigma): S      Number of Sigmas: 1.0

DISTANCE MEASURE: cd\_2drp

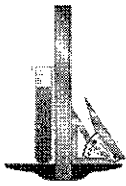
SCOND: 0

Basement Depth: 5.00 km      Campbell SSR:      Campbell SHR:

COMPUTE PEAK HORIZONTAL ACCELERATION

FAULT-DATA FILE USED: CGSFLTE.DAT

MINIMUM DEPTH VALUE (km): 0.0



**TABLE I - FAULTS IN THE VICINITY OF THE SITE**

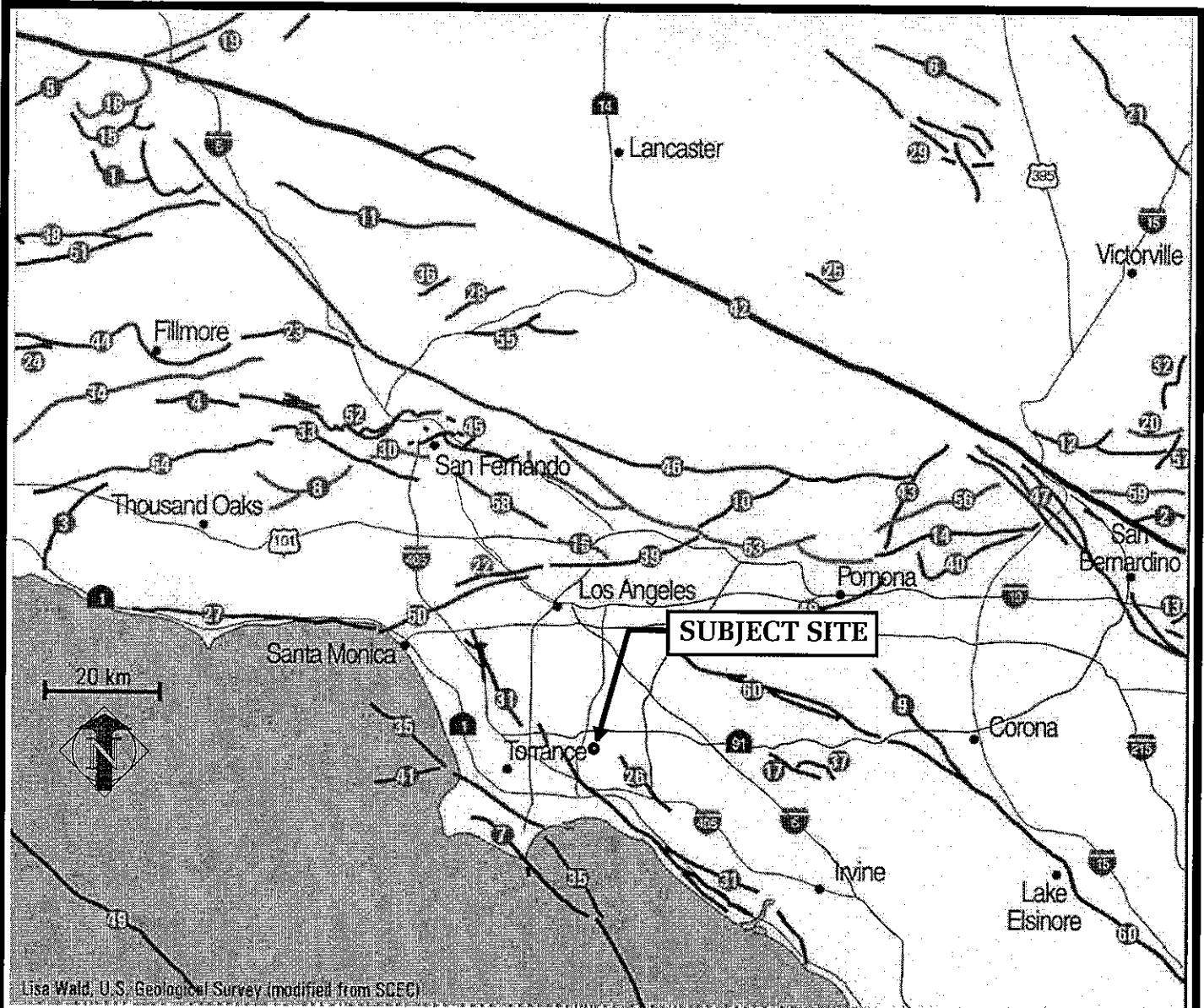
ABBREVIATED FAULT NAME	APPROXIMATE DISTANCE		ESTIMATED MAX. EARTHQUAKE EVENT		
	mi	(km)	MAXIMUM EARTHQUAKE MAG. (Mw)	PEAK SITE ACCEL. g	EST. SITE INTENSITY MOD.MERC.
NEWPORT-INGLEWOOD (L.A.Basin)	1.9	( 3.0)	7.1	0.990	XI
PUENTE HILLS BLIND THRUST	6.9	( 11.1)	7.1	0.712	XI
PALOS VERDES	9.0	( 14.4)	7.3	0.549	X
WHITTIER	12.9	( 20.8)	6.8	0.326	IX
UPPER ELYSIAN PARK BLIND THRUST	14.0	( 22.6)	6.4	0.302	IX
RAYMOND	17.9	( 28.8)	6.5	0.266	IX
HOLLYWOOD	18.0	( 29.0)	6.4	0.251	IX
SAN JOAQUIN HILLS	18.5	( 29.7)	6.6	0.274	IX
VERDUGO	18.8	( 30.2)	6.9	0.317	IX
SANTA MONICA	19.3	( 31.0)	6.6	0.265	IX
SAN JOSE	21.5	( 34.6)	6.4	0.220	IX
SIERRA MADRE	22.7	( 36.6)	7.2	0.321	IX
MALIBU COAST	23.1	( 37.2)	6.7	0.244	IX
CHINO-CENTRAL AVE. (Elsinore)	23.7	( 38.1)	6.7	0.239	IX
NEWPORT-INGLEWOOD (Offshore)	24.3	( 39.1)	7.1	0.238	IX
CLAMSHELL-SAWPIT	24.4	( 39.2)	6.5	0.211	VIII
NORTHRIDGE (E. Oak Ridge)	26.3	( 42.4)	7.0	0.258	IX
SIERRA MADRE (San Fernando)	29.5	( 47.5)	6.7	0.202	VIII
ANACAPA-DUME	30.4	( 49.0)	7.5	0.301	IX
ELSINORE (GLEN IVY)	31.5	( 50.7)	6.8	0.167	VIII
CUCAMONGA	31.9	( 51.4)	6.9	0.211	VIII
SAN GABRIEL	32.1	( 51.6)	7.2	0.203	VIII
SANTA SUSANA	36.5	( 58.7)	6.7	0.172	VIII
HOLSER	41.4	( 66.6)	6.5	0.140	VIII
SIMI-SANTA ROSA	42.1	( 67.8)	7.0	0.180	VIII
CORONADO BANK	43.6	( 70.1)	7.6	0.198	VIII
SAN ANDREAS - 1857 Rupture M-2a	44.7	( 71.9)	7.8	0.215	VIII
SAN ANDREAS - Mojave M-1c-3	44.7	( 71.9)	7.4	0.175	VIII
SAN ANDREAS - Whole M-1a	44.7	( 71.9)	8.0	0.239	IX
SAN ANDREAS - Cho-Moj M-1b-1	44.7	( 71.9)	7.8	0.215	VIII
OAK RIDGE (Onshore)	45.6	( 73.4)	7.0	0.169	VIII
SAN JACINTO-SAN BERNARDINO	47.0	( 75.7)	6.7	0.116	VII
SAN ANDREAS - San Bernardino M-1	49.3	( 79.4)	7.5	0.170	VIII
SAN ANDREAS - SB-Coach. M-2b	49.3	( 79.4)	7.7	0.189	VIII
SAN ANDREAS - SB-Coach. M-1b-2	49.3	( 79.4)	7.7	0.189	VIII
ELSINORE (TEMECULA)	50.3	( 81.0)	6.8	0.116	VII
SAN CAYETANO	51.7	( 83.2)	7.0	0.154	VIII
CLEGHORN	51.8	( 83.3)	6.5	0.097	VII
SAN JACINTO-SAN JACINTO VALLEY	55.7	( 89.6)	6.9	0.113	VII

\*\*\*\*\*

-END OF SEARCH- 39 FAULTS FOUND WITHIN THE SPECIFIED SEARCH RADIUS.

THE NEWPORT-INGLEWOOD (L.A.Basin) FAULT IS CLOSEST TO THE SITE.  
 IT IS ABOUT 1.9 MILES (3.0 km) AWAY.

LARGEST MAXIMUM-EARTHQUAKE SITE ACCELERATION: 0.9900 g



Lisa Wald, U.S. Geological Survey (modified from SCEC)

- |                             |                                 |   |
|-----------------------------|---------------------------------|---|
| 1 Alamo thrust              | 21 Helendale fault              | 41 Redondo Canyon fault                 |
| 2 Arrowhead fault           | 22 Hollywood fault              | 42 San Andreas fault                    |
| 3 Bailey fault              | 23 Holser fault                 | 43 San Antonio fault                    |
| 4 Big Mountain fault        | 24 Lion Canyon fault            | 44 San Cayetano fault                   |
| 5 Big Pine fault            | 25 Llano fault                  | 45 San Fernando fault zone              |
| 6 Blake Ranch fault         | 26 Los Alamitos fault           | 46 San Gabriel fault zone               |
| 7 Cabrillo fault            | 27 Malibu Coast fault           | 47 San Jacinto fault                    |
| 8 Chatsworth fault          | 28 Mint Canyon fault            | 48 San Jose fault                       |
| 9 Chino fault               | 29 Mirage Valley fault zone     | 49 Santa Cruz-Santa Catalina Ridge f.z. |
| 10 Clamshell-Sawpit fault   | 30 Mission Hills fault          | 50 Santa Monica fault                   |
| 11 Clearwater fault         | 31 Newport Inglewood fault zone | 51 Santa Ynez fault                     |
| 12 Cleghorn fault           | 32 North Frontal fault zone     | 52 Santa Susana fault zone              |
| 13 Crafton Hills fault zone | 33 Northridge Hills fault       | 53 Sierra Madre fault zone              |
| 14 Cucamonga fault zone     | 34 Oak Ridge fault              | 54 Simi fault                           |
| 15 Dry Creek fault          | 35 Palos Verdes fault zone      | 55 Soledad Canyon fault                 |
| 16 Eagle Rock fault         | 36 Pelona fault                 | 56 Stoddard Canyon fault                |
| 17 El Modeno fault          | 37 Peralta Hills fault          | 57 Tunnel Ridge fault                   |
| 18 Frazier Mountain thrust  | 38 Pine Mountain fault          | 58 Verdugo fault                        |
| 19 Garlock fault zone       | 39 Raymond fault                | 59 Waterman Canyon fault                |
| 20 Grass Valley fault       | 40 Red Hill (Elwanda Ave) fault | 60 Whittier fault                       |

REFERENCE: <http://pasadena.wr.usgs.gov/info/images/LA%20Faults.pdf>

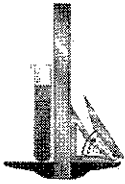
## SOUTHERN CALIFORNIA FAULT MAP

**Geotechnologies, Inc.**  
*Consulting Geotechnical Engineers*

AMCAL MULTI HOUSING, INC.

FILE No. 19593

FIGURE I



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

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*****  
*                               *  
*   E Q S E A R C H           *  
*                               *  
*   Version 3.00             *  
*                               *  
*****
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ESTIMATION OF  
PEAK ACCELERATION FROM  
CALIFORNIA EARTHQUAKE CATALOGS

JOB NUMBER: 19593

DATE: 02-04-2008

JOB NAME: AMCAL Multi Housing, Inc

EARTHQUAKE-CATALOG-FILE NAME: ALLQUAKE.DAT

SITE COORDINATES:

SITE LATITUDE: 33.8610  
SITE LONGITUDE: 118.1855

SEARCH DATES:

START DATE: 1800  
END DATE: 2008

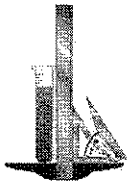
SEARCH RADIUS:

60.0 mi  
96.6 km

ATTENUATION RELATION: 3) Boore et al. (1997) Horiz. - NEHRP D (250)

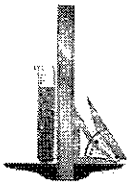
UNCERTAINTY (M=Median, S=Sigma): S            Number of Sigmas: 1.0  
ASSUMED SOURCE TYPE: DS [SS=Strike-slip, DS=Reverse-slip, BT=Blind-thrust]  
SCOND: 0    Depth Source: A  
Basement Depth: 5.00 km    Campbell SSR:            Campbell SHR:  
COMPUTE PEAK HORIZONTAL ACCELERATION

MINIMUM DEPTH VALUE (km): 0.0



**TABLE II - HISTORICAL EARTHQUAKE EPICENTERS**

FILE CODE	LAT. NORTH	LONG. WEST	DATE	TIME (UTC) H M Sec	DEPTH (km)	QUAKE MAG.	SITE ACC. g	SITE MM INT.	APPROX. DISTANCE mi [km]
DMG	33.8500	118.2670	03/11/1933	1425 0.0	0.0	5.00	0.292	IX	4.7 ( 7.6)
DMG	33.7830	118.1330	10/02/1933	91017.6	0.0	5.40	0.311	IX	6.2 ( 9.9)
DMG	33.7830	118.2500	11/14/1941	84136.3	0.0	5.40	0.301	IX	6.5 ( 10.5)
DMG	33.7500	118.0830	03/11/1933	230 0.0	0.0	5.10	0.199	VIII	9.7 ( 15.5)
DMG	33.7500	118.0830	03/11/1933	910 0.0	0.0	5.10	0.199	VIII	9.7 ( 15.5)
DMG	33.7500	118.0830	03/13/1933	131828.0	0.0	5.30	0.221	IX	9.7 ( 15.5)
DMG	33.7500	118.0830	03/11/1933	323 0.0	0.0	5.00	0.189	VIII	9.7 ( 15.5)
DMG	33.7500	118.0830	03/11/1933	2 9 0.0	0.0	5.00	0.189	VIII	9.7 ( 15.5)
T-A	34.0000	118.2500	01/10/1856	0 0 0.0	0.0	5.00	0.181	VIII	10.3 ( 16.5)
T-A	34.0000	118.2500	03/26/1860	0 0 0.0	0.0	5.00	0.181	VIII	10.3 ( 16.5)
T-A	34.0000	118.2500	09/23/1827	0 0 0.0	0.0	5.00	0.181	VIII	10.3 ( 16.5)
MGI	34.0000	118.3000	09/03/1905	540 0.0	0.0	5.30	0.194	VIII	11.6 ( 18.7)
DMG	33.7000	118.0670	03/11/1933	85457.0	0.0	5.10	0.161	VIII	13.0 ( 21.0)
DMG	33.7000	118.0670	03/11/1933	51022.0	0.0	5.10	0.161	VIII	13.0 ( 21.0)
MGI	34.0000	118.0000	12/25/1903	1745 0.0	0.0	5.00	0.142	VIII	14.3 ( 23.0)
DMG	33.6830	118.0500	03/11/1933	658 3.0	0.0	5.50	0.183	VIII	14.5 ( 23.4)
PAS	34.0610	118.0790	10/01/1987	144220.0	9.5	5.90	0.220	IX	15.1 ( 24.3)
PAS	34.0730	118.0980	10/04/1987	105938.2	8.2	5.30	0.158	VIII	15.5 ( 24.9)
MGI	34.0800	118.2600	07/16/1920	18 8 0.0	0.0	5.00	0.133	VIII	15.7 ( 25.3)
MGI	34.1000	118.1000	07/11/1855	415 0.0	0.0	6.30	0.247	IX	17.2 ( 27.7)
DMG	33.6170	118.0170	03/14/1933	19 150.0	0.0	5.10	0.120	VII	19.4 ( 31.3)
MGI	34.0000	118.5000	11/19/1918	2018 0.0	0.0	5.00	0.109	VII	20.4 ( 32.8)
DMG	34.0000	118.5000	08/04/1927	1224 0.0	0.0	5.00	0.109	VII	20.4 ( 32.8)
DMG	33.6170	117.9670	03/11/1933	154 7.8	0.0	6.30	0.212	VIII	21.0 ( 33.8)
DMG	33.5750	117.9830	03/11/1933	518 4.0	0.0	5.20	0.111	VII	22.9 ( 36.9)
PAS	33.9190	118.6270	01/19/1989	65328.8	11.9	5.00	0.092	VII	25.6 ( 41.2)
DMG	33.9500	118.6320	08/31/1930	04036.0	0.0	5.20	0.100	VII	26.3 ( 42.3)
DMG	34.2000	117.9000	08/28/1889	215 0.0	0.0	5.50	0.110	VII	28.5 ( 45.9)
PAS	33.9440	118.6810	01/01/1979	231438.9	11.3	5.00	0.084	VII	29.0 ( 46.6)
GSP	34.2620	118.0020	06/28/1991	144354.5	11.0	5.40	0.102	VII	29.6 ( 47.6)
GSP	34.2310	118.4750	03/20/1994	212012.3	13.0	5.30	0.094	VII	30.4 ( 49.0)
GSP	34.2130	118.5370	01/17/1994	123055.4	18.0	6.70	0.192	VIII	31.5 ( 50.8)
GSP	34.1400	117.7000	02/28/1990	234336.6	5.0	5.20	0.083	VII	33.8 ( 54.4)
MGI	33.8000	117.6000	04/22/1918	2115 0.0	0.0	5.00	0.074	VII	33.8 ( 54.5)
DMG	34.3080	118.4540	02/09/1971	144346.7	6.2	5.20	0.081	VII	34.5 ( 55.5)
GSB	34.3010	118.5650	01/17/1994	204602.4	9.0	5.20	0.077	VII	37.3 ( 60.1)
GSP	34.3050	118.5790	01/29/1994	112036.0	1.0	5.10	0.072	VI	38.0 ( 61.2)
DMG	34.3000	118.6000	04/04/1893	1940 0.0	0.0	6.00	0.114	VII	38.5 ( 61.9)
DMG	34.4110	118.4010	02/09/1971	14 244.0	8.0	5.80	0.100	VII	39.9 ( 64.2)
DMG	34.4110	118.4010	02/09/1971	14 1 8.0	8.0	5.80	0.100	VII	39.9 ( 64.2)
DMG	34.4110	118.4010	02/09/1971	14 041.8	8.4	6.40	0.137	VIII	39.9 ( 64.2)
DMG	34.4110	118.4010	02/09/1971	141028.0	8.0	5.30	0.077	VII	39.9 ( 64.2)
DMG	33.6990	117.5110	05/31/1938	83455.4	10.0	5.50	0.085	VII	40.3 ( 64.8)
MGI	34.0000	117.5000	12/16/1858	10 0 0.0	0.0	7.00	0.186	VIII	40.4 ( 65.0)
GSP	34.3780	118.6180	01/19/1994	211144.9	11.0	5.10	0.065	VI	43.4 ( 69.9)
GSP	34.3260	118.6980	01/17/1994	233330.7	9.0	5.60	0.084	VII	43.5 ( 69.9)
GSP	34.3690	118.6720	04/26/1997	103730.7	16.0	5.10	0.063	VI	44.8 ( 72.0)
DMG	34.3000	117.6000	07/30/1894	512 0.0	0.0	6.00	0.101	VII	45.2 ( 72.7)
DMG	34.5190	118.1980	08/23/1952	10 9 7.1	13.1	5.00	0.059	VI	45.4 ( 73.1)
GSP	34.3940	118.6690	06/26/1995	084028.9	13.0	5.00	0.059	VI	46.0 ( 74.1)
GSP	34.3770	118.6980	01/18/1994	004308.9	11.0	5.20	0.065	VI	46.1 ( 74.2)
DMG	33.7000	117.4000	05/13/1910	620 0.0	0.0	5.00	0.058	VI	46.4 ( 74.7)
DMG	33.7000	117.4000	05/15/1910	1547 0.0	0.0	6.00	0.099	VII	46.4 ( 74.7)



FILE CODE	LAT. NORTH	LONG. WEST	DATE	TIME (UTC) H M Sec	DEPTH (km)	QUAKE MAG.	SITE ACC. g	SITE MM INT.	APPROX. DISTANCE mi [km]
DMG	33.7000	117.4000	04/11/1910	757 0.0	0.0	5.00	0.058	VI	46.4 ( 74.7)
DMG	34.2700	117.5400	09/12/1970	143053.0	8.0	5.40	0.072	VI	46.5 ( 74.8)
DMG	34.3700	117.6500	12/08/1812	15 0 0.0	0.0	7.00	0.166	VIII	46.6 ( 75.0)
GSB	34.3790	118.7110	01/19/1994	210928.6	14.0	5.50	0.075	VII	46.7 ( 75.2)
MGI	34.0000	119.0000	12/14/1912	0 0 0.0	0.0	5.70	0.082	VII	47.6 ( 76.7)
DMG	34.0000	119.0000	09/24/1827	4 0 0.0	0.0	7.00	0.164	VIII	47.6 ( 76.7)
DMG	34.3000	117.5000	07/22/1899	2032 0.0	0.0	6.50	0.122	VII	49.5 ( 79.7)
DMG	34.0650	119.0350	02/21/1973	144557.3	8.0	5.90	0.087	VII	50.6 ( 81.5)
DMG	34.2000	117.4000	07/22/1899	046 0.0	0.0	5.50	0.071	VI	50.7 ( 81.5)
MGI	34.1000	117.3000	07/15/1905	2041 0.0	0.0	5.30	0.061	VI	53.3 ( 85.8)
DMG	34.0000	117.2500	07/23/1923	73026.0	0.0	6.25	0.099	VII	54.4 ( 87.6)
PAS	33.6710	119.1110	09/04/1981	155050.3	5.0	5.30	0.060	VI	54.7 ( 88.0)
DMG	33.9000	117.2000	12/19/1880	0 0 0.0	0.0	6.00	0.085	VII	56.6 ( 91.0)

\*\*\*\*\*

-END OF SEARCH- 66 EARTHQUAKES FOUND WITHIN THE SPECIFIED SEARCH AREA.

TIME PERIOD OF SEARCH: 1800 TO 2008

LENGTH OF SEARCH TIME: 209 years

THE EARTHQUAKE CLOSEST TO THE SITE IS ABOUT 4.7 MILES (7.6 km) AWAY.

LARGEST EARTHQUAKE MAGNITUDE FOUND IN THE SEARCH RADIUS: 7.0

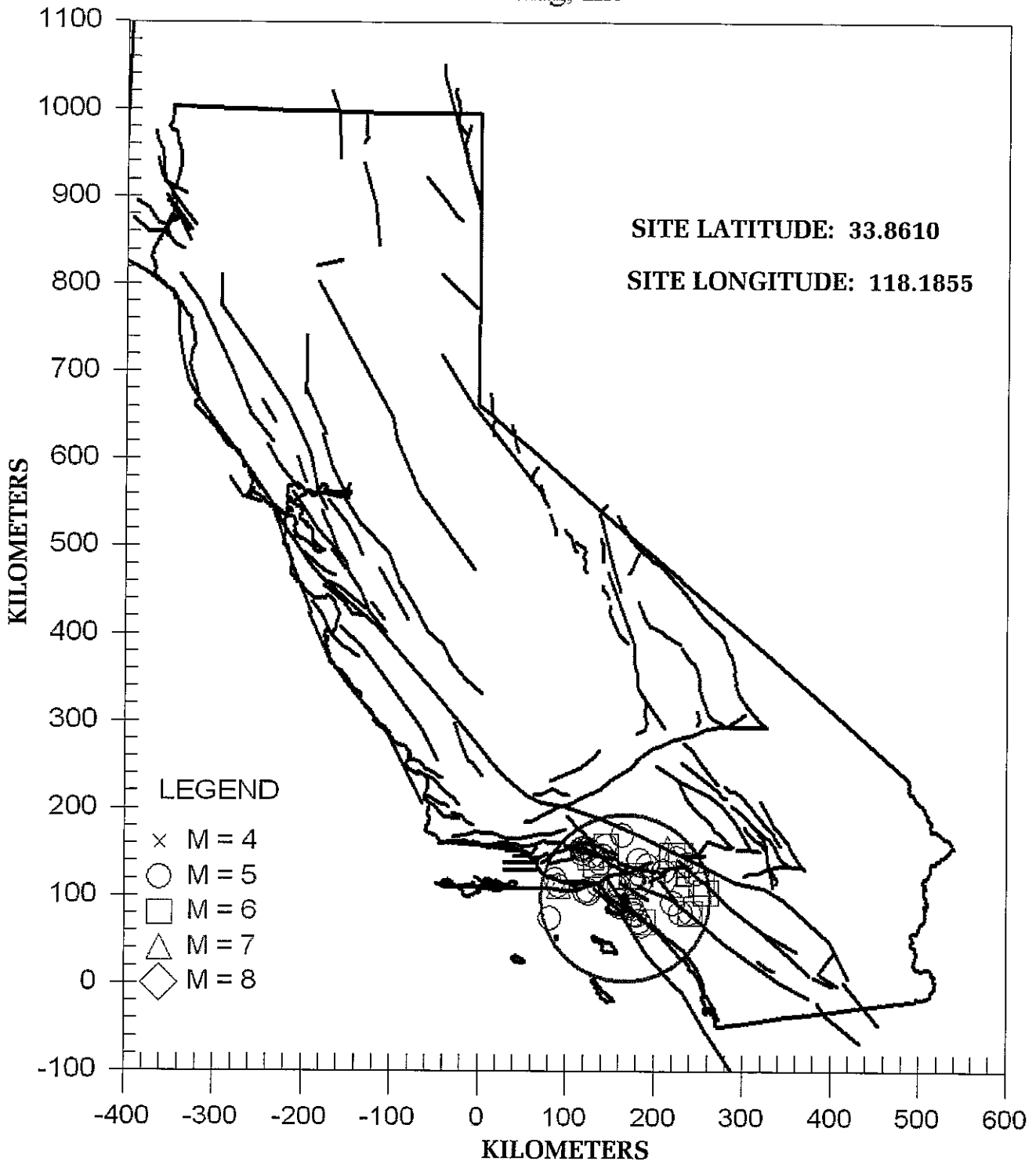
LARGEST EARTHQUAKE SITE ACCELERATION FROM THIS SEARCH: 0.311 g

COEFFICIENTS FOR GUTENBERG & RICHTER RECURRENCE RELATION:

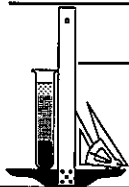
a-value= 1.121  
 b-value= 0.370  
 beta-value= 0.852

# EARTHQUAKE EPICENTER MAP

AMCAL Multi Housing, Inc



## EARTHQUAKE EPICENTERS MAP



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

AMCAL MULTI HOUSING, INC.

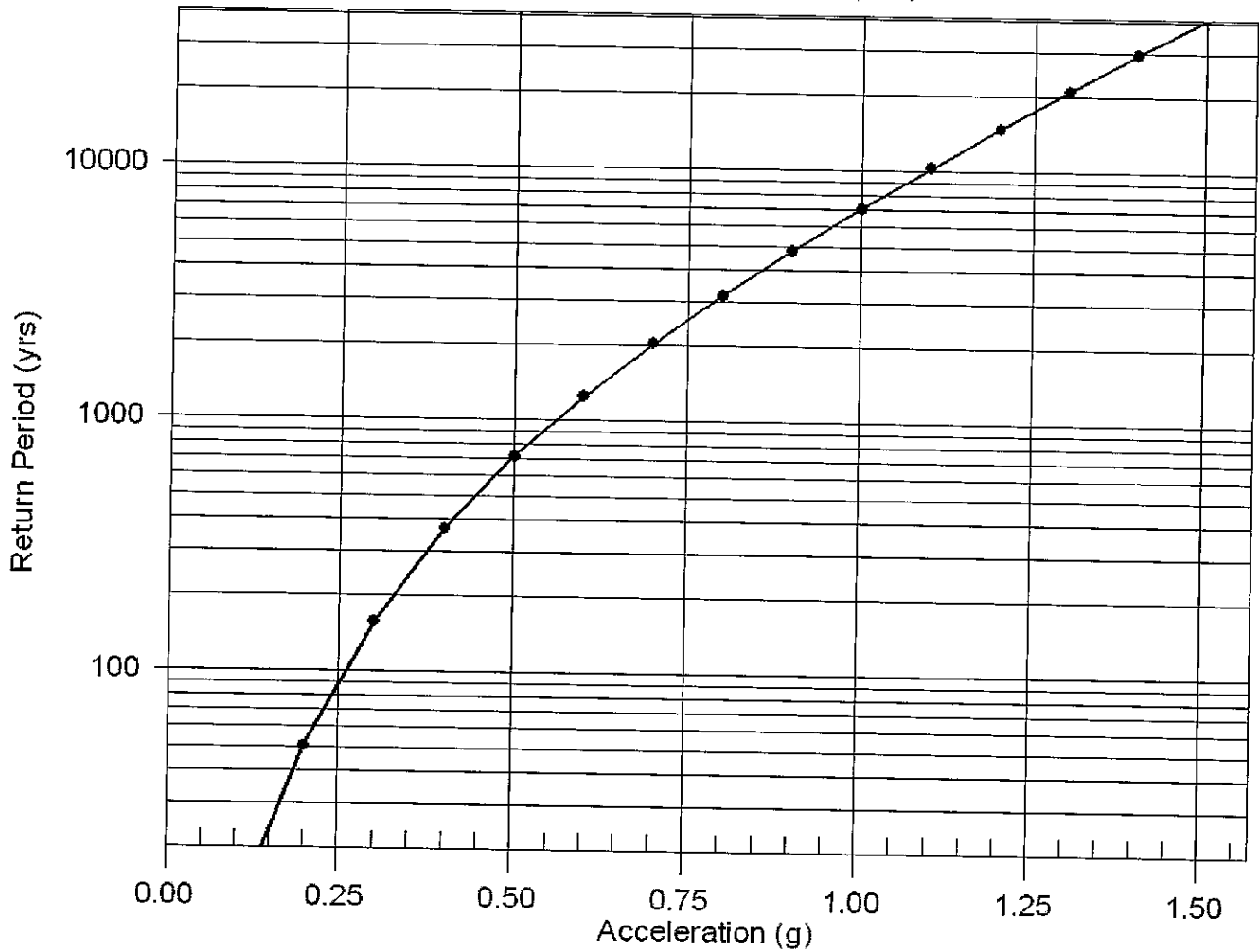
FILE No. 19593

FIGURE II

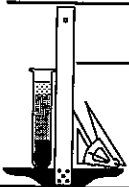


# RETURN PERIOD vs. ACCELERATION

BOORE ET AL(1997) NEHRP D (250)1



## RETURN PERIOD vs ACCELERATION



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

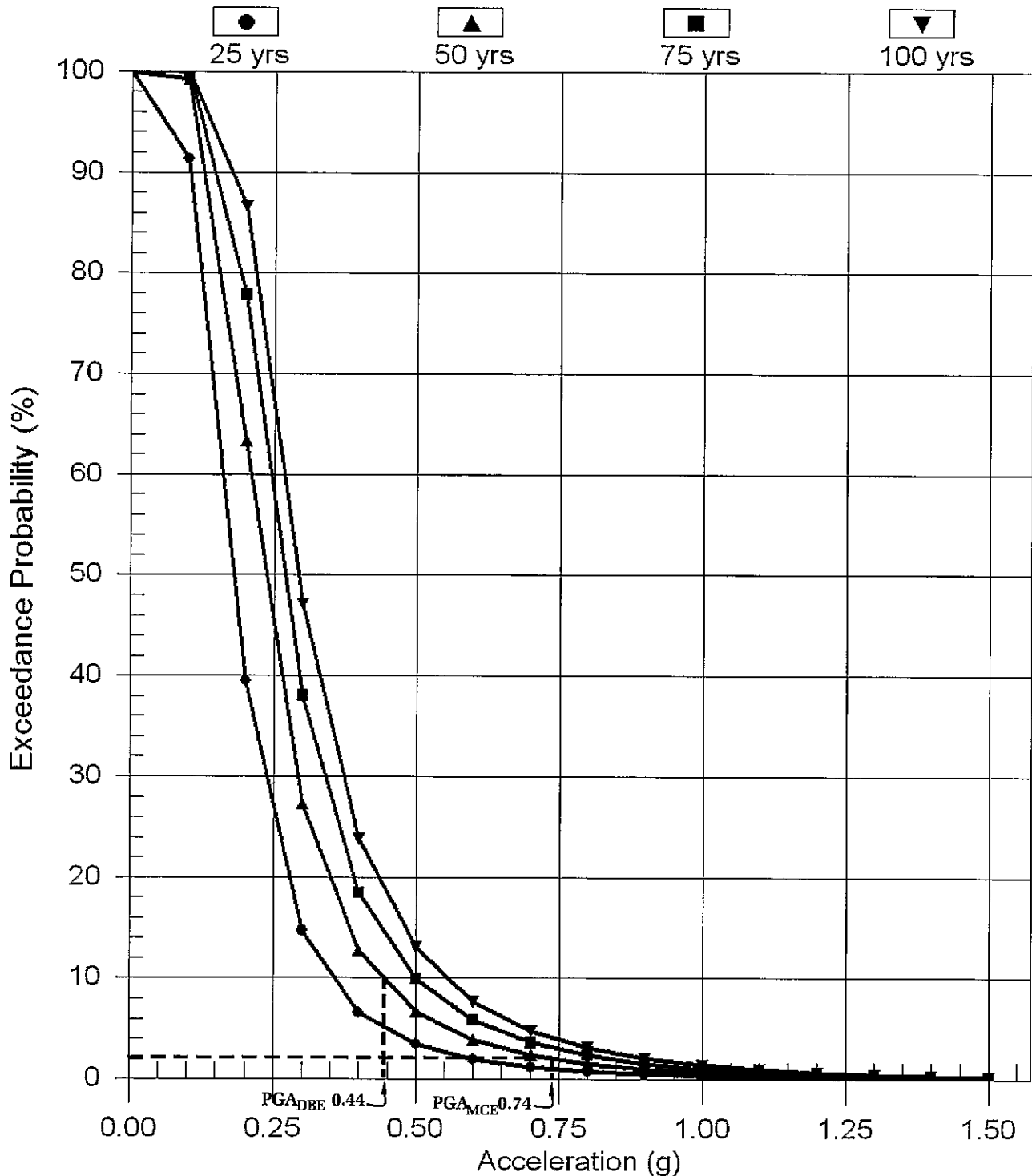
AMCAL MULTI HOUSING, INC.

FILE No. 19593

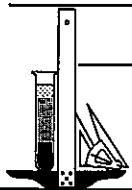
FIGURE III

# PROBABILITY OF EXCEEDANCE

BOORE ET AL(1997) NEHRP D (250)1



## PROBABILITY OF EXCEEDANCE



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

AMCAL MULTI HOUSING, INC.

FILE No. 19593

FIGURE IV



# Geotechnologies, Inc.

Project: AMCAL Multi Housing, Inc.  
 File No.: 19593  
 Description: Liquefaction Analysis  
 Boring Number: 2

## EMPIRICAL ESTIMATION OF LIQUEFACTION POTENTIAL

NCEER (1996) METHOD

By Thomas F. Blake (1994-1996)

LIQ2\_30,WQ1

### EARTHQUAKE INFORMATION:

Earthquake Magnitude:	7.1
Peak Horiz. Acceleration (g):	0.48
Calculated Mag. Wig. Factor:	0.873

### ENERGY & ROD CORRECTIONS:

Energy Correction (CE) for N60:	1.00
Rod Len. Corr. (CR)(0-no or 1-yes):	1.0
Bore Dia. Corr. (CB):	1.00
Sampler Corr. (CS):	1.20
Use Ksigma (0 or 1):	1.0

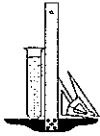
### GROUNDWATER INFORMATION:

Current Groundwater Level (ft):	37.0
Historic Highest Groundwater Level* (ft):	30.0
Unit Wt. Water (pcf):	62.4

\* Based on California Geological Survey Seismic Hazard Evaluation Report

### LIQUEFACTION CALCULATIONS:

Depth to Base (ft)	Total Unit Wt. (pcf)	Current Water Level (0 or 1)	FIELD SPT (N)	Depth of SPT (ft)	Liq. Sus. (0 or 1)	-200 (%)	Est. Dr (%)	CN Factor	Corrected (N) <sub>60</sub>	Resist. CRR	rd Factor	Induced CSR	Liquefac. Safe.Fact.
1.0	120.0	0	NA	1.0	0	0.0		2.000	0.0	~	0.998	0.272	~
2.0	120.0	0	NA	1.0	0	0.0		#VALUE!	#VALUE!	~	0.993	0.271	~
3.0	120.0	0	NA	1.0	0	0.0		#VALUE!	#VALUE!	~	0.989	0.269	~
4.0	120.0	0	NA	1.0	0	0.0		#VALUE!	#VALUE!	~	0.984	0.268	~
5.0	120.0	0	NA	1.0	0	0.0		#VALUE!	#VALUE!	~	0.979	0.267	~
6.0	120.0	0	10.0	5.0	0	0.0		1.980	17.8	~	0.975	0.266	~
7.0	120.0	0	10.0	5.0	0	0.0		1.980	17.8	~	0.970	0.264	~
8.0	115.7	0	12.0	10.0	0	0.0		1.369	14.8	~	0.966	0.263	~
9.0	115.7	0	12.0	10.0	0	0.0		1.369	14.8	~	0.961	0.262	~
10.0	115.7	0	12.0	10.0	0	0.0		1.369	14.8	~	0.957	0.261	~
11.0	115.7	0	12.0	10.0	0	0.0		1.369	14.8	~	0.952	0.259	~
12.0	115.7	0	12.0	10.0	0	0.0		1.369	14.8	~	0.947	0.258	~
13.0	125.9	0	12.0	10.0	0	0.0		1.369	14.8	~	0.943	0.257	~
14.0	125.9	0	12.0	10.0	0	0.0		1.369	14.8	~	0.938	0.256	~
15.0	125.9	0	12.0	10.0	0	0.0		1.369	14.8	~	0.934	0.254	~
16.0	125.9	0	16.0	15.0	0	0.0		1.105	17.1	~	0.929	0.253	~
17.0	125.9	0	16.0	15.0	0	0.0		1.105	17.1	~	0.925	0.252	~
18.0	106.4	0	16.0	15.0	0	0.0		1.105	17.1	~	0.920	0.251	~
19.0	106.4	0	16.0	15.0	0	0.0		1.105	17.1	~	0.915	0.249	~
20.0	106.4	0	16.0	15.0	0	0.0		1.105	17.1	~	0.911	0.248	~
21.0	106.4	0	20.0	20.0	0	0.0		0.956	20.5	~	0.906	0.247	~
22.0	106.4	0	20.0	20.0	0	0.0		0.956	20.5	~	0.902	0.246	~
23.0	123.5	0	16.0	25.0	0	0.0		0.856	15.7	~	0.897	0.244	~
24.0	123.5	0	16.0	25.0	0	0.0		0.856	15.7	~	0.893	0.243	~
25.0	123.5	0	16.0	25.0	0	0.0		0.856	15.7	~	0.888	0.242	~
26.0	123.5	0	16.0	25.0	0	0.0		0.856	15.7	~	0.883	0.241	~
27.0	123.5	0	16.0	25.0	0	0.0		0.856	15.7	~	0.879	0.239	~
28.0	115.9	0	16.0	25.0	0	0.0		0.856	15.7	~	0.874	0.238	~
29.0	115.9	0	16.0	25.0	0	0.0		0.856	15.7	~	0.870	0.237	~
30.0	115.9	0	16.0	25.0	0	0.0		0.856	15.7	~	0.865	0.236	~
31.0	115.9	0	20.0	30.0	0	74.2		0.779	25.7	~	0.861	0.234	~
32.0	115.9	0	20.0	30.0	0	74.2		0.779	25.7	~	0.856	0.233	~
33.0	133.8	0	16.0	35.0	0	60.0		0.717	20.8	~	0.851	0.232	~
34.0	133.8	0	16.0	35.0	0	60.0		0.717	20.8	~	0.847	0.231	~
35.0	133.8	0	16.0	35.0	0	60.0		0.717	20.8	~	0.842	0.230	~
36.0	133.8	0	16.0	35.0	0	60.0		0.717	20.8	~	0.838	0.228	~
37.0	133.8	0	16.0	35.0	0	60.0		0.717	20.8	~	0.833	0.227	~
38.0	140.2	1	66.0	40.0	1	0.0	98	0.675	53.5	Inf.	0.829	0.227	Non-Liq.
39.0	140.2	1	66.0	40.0	1	0.0	98	0.675	53.5	Inf.	0.824	0.229	Non-Liq.
40.0	140.2	1	66.0	40.0	1	0.0	98	0.675	53.5	Inf.	0.819	0.231	Non-Liq.
41.0	140.2	1	66.0	40.0	1	0.0	98	0.675	53.5	Inf.	0.815	0.232	Non-Liq.
42.0	140.2	1	66.0	40.0	1	0.0	98	0.675	53.5	Inf.	0.810	0.234	Non-Liq.
43.0	138.7	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.806	0.235	Non-Liq.
44.0	138.7	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.801	0.236	Non-Liq.
45.0	138.7	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.797	0.237	Non-Liq.
46.0	138.7	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.792	0.238	Non-Liq.
47.0	138.7	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.787	0.239	Non-Liq.
48.0	129.9	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.783	0.240	Non-Liq.
49.0	129.9	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.778	0.241	Non-Liq.
50.0	129.9	1	86.0	45.0	1	0.0	109	0.649	67.0	Inf.	0.774	0.241	Non-Liq.
51.0	129.9	1	41.0	50.0	1	0.0	73	0.627	30.8	Inf.	0.769	0.242	Non-Liq.
52.0	129.9	1	41.0	50.0	1	0.0	73	0.627	30.8	Inf.	0.765	0.242	Non-Liq.
53.0	131.8	1	41.0	50.0	1	0.0	73	0.627	30.8	Inf.	0.760	0.243	Non-Liq.
54.0	131.8	1	41.0	50.0	1	0.0	73	0.627	30.8	Inf.	0.755	0.243	Non-Liq.
55.0	131.8	1	41.0	50.0	1	0.0	73	0.627	30.8	Inf.	0.751	0.244	Non-Liq.
56.0	132.8	1	88.0	55.0	1	0.0	105	0.608	64.2	Inf.	0.746	0.244	Non-Liq.
57.0	132.8	1	88.0	55.0	1	0.0	105	0.608	64.2	Inf.	0.742	0.244	Non-Liq.
58.0	132.8	1	88.0	55.0	1	0.0	105	0.608	64.2	Inf.	0.737	0.244	Non-Liq.
59.0	132.8	1	88.0	55.0	1	0.0	105	0.608	64.2	Inf.	0.733	0.244	Non-Liq.
60.0	132.8	1	56.0	60.0	1	0.0	82	0.600	40.3	Inf.	0.728	0.244	Non-Liq.



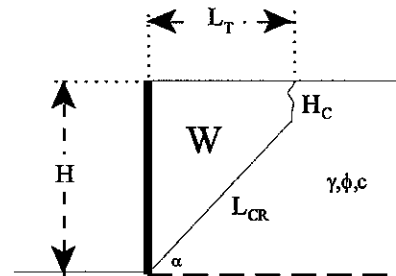
# Geotechnologies, Inc.

Project: Amcal  
 File No.: 19593  
 Description: Shoring

## Shoring Design with Level Backfill (Vector Analysis)

**Input:**  
 Shoring Height (H) 12.00 feet  
 Unit Weight of Retained Soils (γ) 120.0 pcf  
 Friction Angle of Retained Soils (φ) 27.0 degrees  
 Cohesion of Retained Soils (c) 156.0 psf  
 Factor of Safety (FS) 1.25

**Factored Parameters:**  
 (φ<sub>FS</sub>) 22.2 degrees  
 (c<sub>FS</sub>) 124.8 psf



Failure Angle (α) degrees	Height of Tension Crack (H <sub>c</sub> ) feet	Area of Wedge (A) feet <sup>2</sup>	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L <sub>cr</sub> ) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P <sub>A</sub> ) lbs/lineal foot
45	3.5	66	7900.3	12.0	3576.7	4323.5	1819.5
46	3.4	64	7660.9	11.9	3407.8	4253.1	1877.9
47	3.4	62	7423.9	11.8	3250.7	4173.2	1930.3
48	3.3	60	7189.7	11.7	3104.5	4085.2	1976.9
49	3.3	58	6958.7	11.6	2968.3	3990.4	2017.7
50	3.2	56	6731.0	11.5	2841.1	3889.9	2052.9
51	3.2	54	6507.0	11.4	2722.3	3784.6	2082.6
52	3.1	52	6286.5	11.2	2611.2	3675.4	2106.9
53	3.1	51	6069.7	11.1	2507.0	3562.7	2125.8
54	3.1	49	5856.4	11.0	2409.1	3447.3	2139.4
55	3.1	47	5646.7	10.9	2317.1	3329.6	2147.7
56	3.1	45	5440.3	10.7	2230.4	3210.0	2150.8
57	3.1	44	5237.3	10.6	2148.5	3088.8	2148.6
58	3.1	42	5037.4	10.5	2071.0	2966.3	2141.2
59	3.1	40	4840.5	10.4	1997.6	2842.9	2128.6
60	3.1	39	4646.5	10.2	1927.8	2718.7	2110.6
61	3.2	37	4455.3	10.1	1861.4	2593.9	2087.3
62	3.2	36	4266.6	10.0	1797.9	2468.8	2058.6
63	3.2	34	4080.4	9.8	1737.1	2343.3	2024.4
64	3.3	32	3896.4	9.7	1678.6	2217.8	1984.5
65	3.4	31	3714.4	9.5	1622.2	2092.2	1939.0
66	3.4	29	3534.4	9.4	1567.6	1966.8	1887.6
67	3.5	28	3356.1	9.2	1514.5	1841.6	1830.3
68	3.6	26	3179.3	9.1	1462.5	1716.8	1766.8
69	3.7	25	3003.8	8.9	1411.5	1592.4	1697.1
70	3.8	24	2829.4	8.7	1360.9	1468.5	1620.9

Design Equations (Vector Analysis):

$a = c_{FS} * L_{CR} * \sin(90 + \phi_{FS}) / \sin(\alpha - \phi_{FS})$

$b = W - a$

$P_A = b * \tan(\alpha - \phi_{FS})$

$EFP = 2 * P_A / H^2$

Maximum Active Pressure Resultant

$P_{A, max}$

2150.8 |lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of shoring)

$EFP = 2 * P_A / H^2$

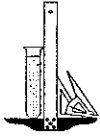
EFP

29.9 pcf

Use 30pcf

Design Shoring for an Equivalent Fluid Pressure:

19H (Trapezoidal)



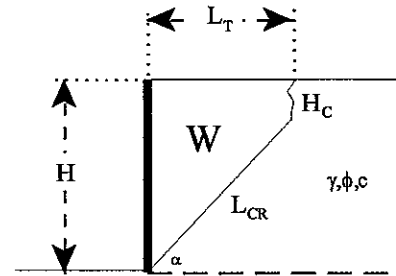
# Geotechnologies, Inc.

Project: Amcal  
 File No.: 19593  
 Description: Retaining Walls

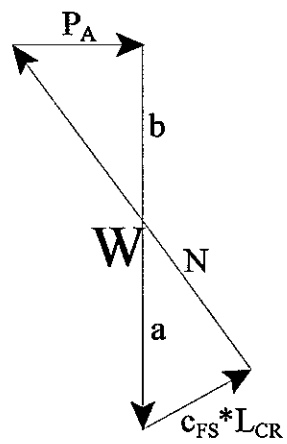
## Retaining Wall Design with Level Backfill (Vector Analysis)

**Input:**  
 Retaining Wall Height (H) 12.00 feet  
 Unit Weight of Retained Soils ( $\gamma$ ) 120.0 pcf  
 Friction Angle of Retained Soils ( $\phi$ ) 27.0 degrees  
 Cohesion of Retained Soils (c) 156.0 psf  
 Factor of Safety (FS) 1.50

**Factored Parameters:**  
 ( $\phi_{FS}$ ) 18.8 degrees  
 ( $c_{FS}$ ) 104.0 psf



Failure Angle ( $\alpha$ ) degrees	Height of Tension Crack ( $H_c$ ) feet	Area of Wedge (A) feet <sup>2</sup>	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane ( $L_{CR}$ ) feet	Failure Plane Geometry		Active Pressure ( $P_A$ ) lbs/lineal foot
					a lbs/lineal foot	b lbs/lineal foot	
45	2.6	69	8226.6	13.3	2953.1	5273.4	2599.2
46	2.6	66	7957.6	13.1	2817.2	5140.4	2646.1
47	2.5	64	7695.1	12.9	2691.2	5003.8	2687.3
48	2.5	62	7438.9	12.8	2574.3	4864.6	2723.0
49	2.5	60	7188.9	12.6	2465.6	4723.3	2753.2
50	2.5	58	6944.7	12.5	2364.3	4580.4	2778.2
51	2.4	56	6706.2	12.3	2269.8	4436.4	2797.9
52	2.4	54	6473.1	12.1	2181.4	4291.7	2812.5
53	2.4	52	6245.1	12.0	2098.7	4146.4	2822.0
54	2.4	50	6022.1	11.8	2021.1	4001.0	2826.4
55	2.4	48	5803.7	11.7	1948.1	3855.6	2825.8
56	2.4	47	5589.7	11.5	1879.5	3710.3	2820.2
57	2.4	45	5380.0	11.4	1814.7	3565.3	2809.5
58	2.4	43	5174.2	11.3	1753.5	3420.7	2793.7
59	2.5	41	4972.1	11.1	1695.5	3276.6	2772.7
60	2.5	40	4773.6	11.0	1640.5	3133.1	2746.5
61	2.5	38	4578.4	10.8	1588.2	2990.2	2715.0
62	2.6	37	4386.3	10.7	1538.3	2848.0	2678.0
63	2.6	35	4197.1	10.6	1490.6	2706.5	2635.5
64	2.6	33	4010.6	10.4	1444.8	2565.8	2587.2
65	2.7	32	3826.7	10.3	1400.8	2425.8	2533.0
66	2.7	30	3645.0	10.1	1358.4	2286.7	2472.7
67	2.8	29	3465.6	10.0	1317.2	2148.4	2406.0
68	2.9	27	3288.0	9.8	1277.1	2010.9	2332.8
69	3.0	26	3112.2	9.7	1237.9	1874.4	2252.7
70	3.1	24	2937.9	9.5	1199.2	1738.8	2165.5



Design Equations (Vector Analysis):  
 $a = c_{FS} * L_{CR} * \sin(90 + \phi_{FS}) / \sin(\alpha - \phi_{FS})$   
 $b = W - a$   
 $P_A = b * \tan(\alpha - \phi_{FS})$   
 $EFP = 2 * P_A / H^2$

Maximum Active Pressure Resultant

$$P_{A, \max}$$

2826.4 |lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of wall)

$$EFP = 2 * P_A / H^2$$

EFP

39.3 pcf

Use 40pcf

Design Wall for an Equivalent Fluid Pressure:

26H (Trapezoidal)

# **Appendix E**

---

## **Phase I Environmental Site Assessment**

*Technical Appendices to the Phase I ESA are available for review at the Development Services Department,  
Long Beach City Hall*

# **Phase I Environmental Site Assessment**

**North Village Center  
Redevelopment Project EIR  
Long Beach, California**

*Prepared for:*

Long Beach Redevelopment Agency

*Prepared by:*

Rincon Consultants, Inc.  
June 8, 2009



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June 8, 2009  
Project No. 08-62230

Craig Chalfant  
Comprehensive Planning Division  
Department of Planning and Building  
City of Long Beach Redevelopment Agency

**Phase I Environmental Site Assessment  
North Village Center Redevelopment Project EIR  
Long Beach, California**

Dear Mr. Chalfant:

This report presents the findings of a Phase I Environmental Site Assessment (ESA) completed for the North Village Center Redevelopment Project EIR in Long Beach, California. The assessment was performed in August of 2008 and in accordance with our contract dated March 3, 2008.

The accompanying report presents our findings and provides an opinion regarding the potential presence and impact of environmental site conditions. Our work program for this project, as referenced in our contract, is intended to meet the guidelines outlined in the American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* (ASTM Standard E-1527-05). Our scope of services, pursuant to ASTM practice, did not include any inquiries with respect to asbestos, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, or high voltage power lines.

Thank you for selecting Rincon for this project. If you have any questions, or if we can be of any future assistance, please contact us.

Sincerely,  
RINCON CONSULTANTS, INC.

A handwritten signature in black ink that reads 'Stephanie Vasconcellos'.

Stephanie Vasconcellos, PG, REA I  
Senior Geologist

A handwritten signature in blue ink that reads 'Walter Hamann'.

Walter Hamann, PG, CEG, REA II  
Vice President, Environmental Services



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**LONG BEACH, CALIFORNIA**

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- Appendix 2 – Regulatory Records Documentation
- Appendix 3 – Interview Documentation (User Questionnaire and Transaction Screen Questionnaire)
- Appendix 4 – Client Provided Documents
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## EXECUTIVE SUMMARY

This report presents the findings of a Phase I Environmental Site Assessment (ESA) for the properties located within two city blocks bound by 59<sup>th</sup> Street to the north, Lime Avenue to the east, South Street to the south, and Linden Avenue to the west in the City of Long Beach, California (Figure 1, Vicinity Map). The site is bisected by Atlantic Avenue which trends north to south through the center of the site. The property is further identified as APNs 7125-033-900 through -923 and 7125-032-900 through -917 and -929.

The site is currently partially developed with mostly vacant structures including several office and residential units in the western block and the former adult book store, art gallery, church, and furniture store on the eastern block. An operating AutoZone auto parts store located in the southwest portion of the eastern block is currently the only occupied structure on the site. The remaining areas are vacant graded land with concrete debris and asphalt remnants. Several gravel and soil stockpiles were observed in the northern portion of the western block. A construction staging area was observed in the northeast portion of the western block.

The site is located in an area that is primarily comprised of commercial businesses and residences. Properties in the vicinity of the site include single and multi-family homes, retail stores, offices, and a gasoline service station.

Review of the environmental database records search (EDR) indicated that five facilities that were listed on the databases were located at the site. Two of these facilities (5800 and 5801 Atlantic Avenue) have known residual soil and groundwater contamination from former gasoline releases. Two other facilities (NLB Cleaners and Paul Beyer) are potential recognized environmental condition based on their listing on the EDR Historical Auto Stations and EDR Historical Cleaners databases. The fifth facility was listed on the HAZNET database for regulated disposal of asbestos materials and is likely de minimis.

In addition, three of the facilities listed on the EDR databases were for sites adjacent to the subject property. These included the release case at the 76 gasoline service station (5740 Atlantic Avenue), the closed release from the South Street Junior Market, and the EDR Historical Auto Station (Shipley's Flying A Service). The 76 station represents a recognized environmental condition and other two adjacent facilities represent potential recognized environmental conditions.

An additional 15 facilities were located less than 1/8 of a mile from the subject property. None of these facilities were listed on release databases. Therefore they are not anticipated to pose an environmental concern to the subject property at this time.

Our review of historical aerial photographs, topographic maps, and city directory listings for the site indicates that the site was partially developed with residences before 1928. No historical aerial photographs were available prior to 1928. No evidence of former agricultural use onsite was apparent from the aerial photographs reviewed as a part of this assessment. From 1928 to at least 2006 the site was occupied by a variety of mixed use (residential and commercial) tenants including several former gasoline service stations.

Based on the findings of this Phase I ESA, it is our opinion that there are four recognized environmental conditions (RECs) on the site and six potential recognized environmental

conditions at the site. The first REC is related to the soil and concrete stockpiles located in the northwest portion of the western block of the subject site. The soil is reportedly from City of Long Beach road work conducted in the site vicinity. However, the exact source location of the soil is unknown and there is the potential that the stockpiled soil could be impacted with contaminants. Two of the four RECs are in association with former gasoline service stations that were historically located at 5800 and 5801 Atlantic Avenue. Both gasoline stations had known releases which impacted soil and groundwater beneath the site. In addition, both former gasoline service stations have known residual soil and groundwater contamination. The fourth REC is in association with south adjacent 76 gasoline service station with an open LUST case. In addition, the contamination plume from the 76 gasoline service station has not been fully delineated to the north and may affect the subject site.

Six potential RECs were also identified at the site and include a former sign painting and auto repair shops onsite, EDR Historical Auto Station listed site with observed pipes onsite, two marked soil borings from an unknown assessment, a possible onsite former dry cleaners, a EDR Historical Auto Station listed adjacent and cross-gradient to the site, and an closed gasoline release case located to the southwest of the site.

To evaluate the site impacts associated with the four RECs mentioned above, Rincon recommends several actions. The client may wish to collect soil samples from each stockpile onsite and analyze them for a variety of constituents (Map ID#s 1-7 and 10). In addition, the client may wish to collect soil and groundwater samples from beneath the two known former onsite gasoline service stations (Map ID#s 14 and 31) to evaluate the concentrations of gasoline constituents, and lead associated with the former releases. Finally, the client may wish to collect groundwater samples in the southwestern area of the east block to the north of the 76 gasoline service station to evaluate onsite migration of impacted groundwater from the gasoline release adjacent to the south.

To evaluate the site impacts associated with the six potential RECs mentioned above, Rincon recommends several actions. The client may wish to conduct a geophysical survey to locate a possible underground storage tank (UST) associated with the former automotive garage repair facility (Map ID# 13) and former possible gasoline service station (Map ID# 16). Further, the client may wish to conduct boring and soil sampling activities to assess the possible presence of total petroleum hydrocarbons (TPH) or volatile organic compounds (VOC) impacted soil in the vicinity of those two sites. In addition, the client may also wish to conduct boring and soil sampling activities to assess the possible VOC impacted soil beneath the possible historic dry cleaning facility (Map ID#24). Also, the client should request that analytical data obtained by all previous property owners in the vicinity of the 5869 building (Map ID#18) be conveyed for evaluation of impacts to soil and groundwater beneath this portion of the subject property. The client may also wish to conduct soil sampling in the vicinity of these two former boring locations. Finally, the client may wish to conduct soil and groundwater sampling along the west block boundaries to the south and west to evaluate impacts from two former gasoline services stations to the west and southwest of the site.

## **INTRODUCTION**

This report presents the findings of a Phase I ESA conducted for the properties located within two city blocks south of East 59<sup>th</sup> Street, west of Lime Avenue, north of East South Street and east of Linden Avenue in the City of Long Beach, California (Figure 1). The Phase I ESA was performed by Rincon Consultants, Inc. for the City of Long Beach Redevelopment Agency in general conformance with ASTM E 1527-05 and our proposal dated March 3, 2008. The following sections present our findings and provide our opinion as to the potential presence and impact of environmental site conditions.

### **PURPOSE**

The purpose of this Phase I ESA was to identify the possible presence of recognized environmental conditions that could materially impact the operation of the business associated with the parcel of commercial real estate.

A REC is defined pursuant to ASTM E 1527-05 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

### **DETAILED SCOPE OF SERVICES**

The scope of services conducted for this study is outlined below:

- Perform an on-site reconnaissance to identify obvious indicators of the existence of hazardous materials.
- Observe adjacent or nearby properties from public thoroughfares in an attempt to see if such properties are likely to use, store, generate, or dispose of hazardous materials.
- Obtain and review an environmental records database search from Environmental Data Resources (EDR), Inc. to obtain information about the potential for hazardous materials to exist at the site or at properties located in the vicinity of the site.
- Review files for the subject site and immediately adjacent properties as identified in the EDR report.
- Review the current U.S. Geological Survey (USGS) topographic map to obtain information about the site's topography and uses of the site and properties in the vicinity of the site.
- Review historic aerial photographs and topographic maps to obtain information about historic uses of the subject property and adjacent properties.

- Review historic city directories and fire insurance maps to obtain information about historic uses of the subject property and adjacent properties.
- Review California Division of Oil and Gas records to obtain information about historic oil and gas activity in the vicinity of the site.
- Provide an interview questionnaire to the property owner or a designated site representative identified to Rincon.
- Conduct a site interview with the owner or designated representative.

Our scope of services, pursuant to ASTM E 1527 practice, did not include any inquiries with respect to asbestos containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, biological agents, mold or high voltage power lines.

### **SIGNIFICANT ASSUMPTIONS, LIMITATIONS, EXCEPTIONS, SPECIAL TERMS AND CONDITIONS**

The City of Long Beach Redevelopment Agency has requested this assessment and will use the assessment to provide information to satisfy regulatory agency requirements. No other use or disclosure is intended or authorized by Rincon. The City of Long Beach Redevelopment Agency agrees to hold Rincon harmless for any inverse condemnation or devaluation of said property that may result if Rincon's report or information generated is used for other purposes. Also, this report is issued with the understanding that it is to be used only in its entirety. It is intended for use only by the client, and no other person or entity may rely upon the report without the express written consent of Rincon.

This work has been performed in accordance with good commercial, customary, and generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No guarantee or warranties, expressed or implied are provided.

The findings and opinions conveyed in this report are based on findings derived from a site reconnaissance, review of an environmental database report, specified regulatory records and historical sources, and comments made by interviewees. This report is not intended as a comprehensive site characterization and should not be construed as such. Standard data sources relied upon during the completion of Phase I ESAs may vary with regard to accuracy and completeness. Although Rincon believes the data sources are reasonably reliable, Rincon cannot and does not guarantee the authenticity or reliability of the data sources it has used. Additionally, pursuant to our contract, the data sources reviewed included only those that are practically reviewable without the need for extraordinary analysis.

Rincon has identified evidence that suggests that hazardous materials or petroleum products may exist at the site at levels that could require mitigation. Additional research, including surface or subsurface sampling and analysis, can reduce the City of Long Beach Redevelopment Agency's risks, but no techniques commonly employed can eliminate these risks altogether. In addition, in accordance with our authorized work scope and contract and the general provisions of ASTM E1527-00, no attempt was made

to check for the presence of asbestos, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, or high voltage power lines.

## **USER RELIANCE**

This Phase I ESA was prepared for use solely and exclusively by the City of Long Beach Redevelopment Agency. This report shall not be relied upon by or transferred to any other party without the express written authorization of Rincon Consultants.

## **SITE DESCRIPTION**

### **LOCATION AND LEGAL DESCRIPTION**

The site encompasses two city blocks in the City of Long Beach, California. The site is bound by East 59<sup>th</sup> Street to the north, Lime Avenue to the east, East South Street to the south, and Linden Avenue to the west. The site is bisected by Atlantic Avenue which trends north to south through the center of the site (Figure 2, Site Map). The property is further identified as APNs 7125-033-900 through -923 and 7125-032-900 through -917 and -929.

### **SITE AND VICINITY GENERAL CHARACTERISTICS**

The site is located in an area that is primarily comprised of commercial businesses and residential housing including single-family homes and multi-family residential units. Properties in the vicinity of the site include single and multi-family homes, retail stores, offices, and a gasoline service station (Figure 3, Adjacent Land Use Map).

### **CURRENT USE OF THE PROPERTY**

The site is currently partially developed with mostly unoccupied structures including several office and residential structures in the west block and a former adult book store, art gallery, church and furniture store on the eastern block (Figure 2, Site Map). An operating AutoZone auto parts store located in the southwest portion of the eastern block is currently the only occupied structure on the site. The remaining areas are vacant graded land with concrete debris and asphalt remnants. Several gravel and soil stockpiles were observed in the northern portion of the western block. A construction staging area was observed in the northeast portion of the western block.

### **DESCRIPTIONS OF STRUCTURES, ROADS, OTHER IMPROVEMENTS ON THE SITE (INCLUDING HEATING/COOLING SYSTEM, SEWAGE DISPOSAL, SOURCE OF POTABLE WATER)**

At the time of the site reconnaissance there were five structures at the site. On the western block there is one building that has four ground level office suites that front Atlantic Avenue to the east (see Figure 2, Map ID#18). Attached and to the west of these office suites are several 2<sup>nd</sup> level office/residence suites that are accessed via a stairway in the rear parking area. This building is surrounded by an asphalt paved parking area and block wall. On the eastern block there are four buildings at the site. The one occupied building is the one-story AutoZone retail store in the southwest corner of the block (see



Figure 2, Map ID#31). It is bordered to the south by an asphalt paved parking lot accessed from East South Street and Atlantic Avenue. The remaining three structures on the eastern block are unoccupied. The largest unoccupied structure is in the northwest corner and consists of two joined buildings, one a former two-story church and worship facility and the second is a former furniture retail showroom with a mezzanine level (see Figure 2, Map ID#25). A second one-story unoccupied building, formerly occupied by an adult book store, is located on the west side of the eastern block to the north of the AutoZone facility (see Figure 2, Map ID#30). The final unoccupied structure is a one story building located in the southeast corner of the eastern block that was formerly used as an art gallery (see Figure 2, Map ID#44). No other structures are present at the site.

Water and sewer service is provided by the City of Long Beach. Southern California Edison (SCE) provides electrical service and the Southern California Gas Company provides natural gas service.

**CURRENT USES OF THE ADJOINING PROPERTIES**

Current adjacent land uses are described in Table 1 and depicted on Figure 3 Adjacent Land Use Map.

**Table 1 - Current Uses of Adjacent Properties**

<b>Area</b>	<b>Use</b>
Northern Property	East 59 <sup>th</sup> Street then commercial structures at the intersection of Atlantic Avenue and E. 59 <sup>th</sup> Street (5901 and 5900 Atlantic Avenue) and residential structures to the east and west (5900 Linden Avenue, 5900 Lime Avenue and 507, 511, 601, 607, and 621 E. 59 <sup>th</sup> Street)
Eastern Property	Lime Avenue then residences (5802, 5826, 5828, 5834, 5846, 5854, 5860, 5868, 5872, 5886, and 5890 Lime Avenue)
Western Property	Linden Avenue then a church to the northwest (5909 Linden Avenue), residences (5823, 5827, 5829, 5841, 5855, 5863, 5871, 5875, 5877, and 5885 Linden Avenue), and a commercial laundromat (495 E. South Street) to the southwest
Southern Property	E. South Street then commercial businesses (510, 524, 526, 628, 630 E. South Street, 5735 Atlantic Avenue, and a gas station (5740 Atlantic Avenue)

### **USER PROVIDED INFORMATION**

As described in ASTM-05 Section 6, Mr. Lee Mayfield, a Redevelopment Project Officer with the Redevelopment Agency of the City of Long Beach was interviewed for actual knowledge pertaining to the subject property to help identify the possibility of recognized environmental conditions in connection with the property. Mr. Mayfield completed the User Questionnaire as provided by ASTM-05 Appendix X3, prior to completion of the site reconnaissance. A copy of the completed questionnaire is included as Appendix 3.

### **TITLE RECORDS**

Mr. Mayfield is unaware of any of any recorded land title information pertaining to environmental liens or for the subject property.

### **ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS**

Mr. Mayfield is unaware of any information pertaining to environmental liens or activity and use limitations for the subject property.

### **SPECIALIZED KNOWLEDGE**

Mr. Mayfield is unaware of any information pertaining to specialized knowledge or experience regarding the property.

### **COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION**

Mr. Mayfield was aware of the past uses of the property and provided the following commonly known or reasonably ascertainable information regarding the subject property, as described below:

Mr. Mayfield indicated that there were previously multiple owners who owned the 43 parcels that make up the subject property. He conveyed a spreadsheet that indicated the APN number, the address, the owner, the case status, the square footage of the property and the type of parcel (residential/commercial). This spreadsheet is provided in Appendix 3 of this report. Further, Mr. Mayfield indicated that there was a “possible previous gas station at the current AutoZone site.” In addition, he indicated that the “tanks (were) removed but site may not have been fully remediated.” Mr. Mayfield also indicated that “asphalt and concrete from street reconstruction projects” has been dumped at the site.

### **VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES**

Mr. Mayfield was not aware of any information pertaining to a valuation reduction for the subject property relative to any known environmental issues.

### **OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION**

Mr. Mayfield indicated that based on his knowledge and experience related to the property, there are several obvious indicators that point to the presence or likely presence of contamination at the property. These indicators are described as follows:

*Former Gasoline Service Station* – Mr. Mayfield indicated that the current AutoZone site previously contained a gasoline service station where the underground storage tanks were removed but the site may not have been fully remediated.

*Asphalt and Concrete Dumping* – Mr. Mayfield indicated that asphalt and concrete from street construction projects were dumped, buried, or burned at the property.

### **REASON FOR PERFORMING PHASE I ESA**

The purpose of this Phase I ESA was to identify the possible presence of recognized environmental conditions.

### **OTHER**

The client indicated that he is not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property. The client also indicated that he is not aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property. In addition, he is not aware of any notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

The following documents regarding the subject property were provided by the Client on a CD and were reviewed by Rincon as part of this Assessment and are included in Appendix 4 of this report:

#### **West Block**

***Phase I ESA North Library Site- Alternative D, Long Beach California (APNs 7125-033-008 through -013, -022 through -025, and -030), SCS Engineers, October 17, 2002 (Map ID#s 8-14 and 21-24)***

SCS Engineers (SCS) prepared a Phase I ESA for portions of the western site. SCS found that portions of the property were developed for residential and commercial uses by at least 1925 and the entire property was developed by 1953. Historical information indicated that the portion of the property along Linden Avenue has always been residential and along Atlantic Avenue has been mostly commercial with some residential use.

SCS noted that a gasoline service station at 5801/5803 Atlantic Avenue, on the southeasterly corner of the property (APN 7125033-030), occupied a portion of the site from at least 1925 through 1955 when two underground storage tanks (USTs) were removed. Two automobile repair shops were also located on this parcel of the property. One shop listed at 509 South Street was on the property from at least 1940 to 1968 and the second shop, listed at 521 South Street, was on the property from at least 1927 to 1953. In addition a clothes cleaning facility was located at 5823 Atlantic Avenue (APN 7125-033-025) from at least 1948 through 1953. SCS was unable to determine if the clothes cleaning facility was conducting typical laundry or dry cleaning operations.

In addition, SCS found that the property at 501 South Street was occupied by a small printers and stationers facility from at least 1948 through 1953. In the 1958 City Directory, an x-ray company occupied this address. The facility was shown as vacant in

1963 and occupied by a photograph facility in 1968. SCS concluded that although these operations may have used small quantities of potentially hazardous materials, based on their experience with similar sites, no significant environmental impact was anticipated from these operations. Therefore, SCS did not consider these historic operations as a recognized environmental condition.

SCS also noted that four additional gasoline and oil stations were either presently or formerly in close proximity to the southern portion of the property. Two were located west and southwest of the property at the northwestern and southwestern corners of Linden Avenue and East South Street, respectively, and two were located east and southeast of the Property at the northeastern and southeastern corners of Atlantic Avenue and East South Street. SCS observed that these four nearby service stations are generally down- or cross-gradient with respect to groundwater flow direction in the area but, due to historic variations in groundwater, SCS indicated that it was possible that fuel-related contamination from one or more of these sites has impacted groundwater beneath the property. Based on the depth to first groundwater in this area, about 30 feet below grade, no significant environmental impact to the property is anticipated from any groundwater contamination. Therefore, SCS determined that these services stations would not be considered recognized environmental conditions, and further investigation was not warranted or recommended. However, SCS noted that the potential impacts of these stations should be considered in the interpretation of any data generated from investigations of the former on-site recognized environmental conditions discussed above.

SCS concluded that the former gasoline service station, automobile repair shops, and the clothes cleaning facility were recognized environmental conditions for the property. In light of the historical presence of USTs and auto repair shops on parcel -030, SCS recommended further investigation including soil sampling and/or a soil gas assessment. No information regarding further assessment was conveyed to Rincon.

***Phase I ESA, 5893 Atlantic Avenue (APN 7125-033-016), Long Beach, California, SCS Engineers, May 27, 2004***

***(Map ID# 15)***

SCS performed a Phase I ESA of a portion of the property located in the western portion of the site. SCS reported that the site was entirely occupied by a single story building with sidewalks along Atlantic Avenue and 59<sup>th</sup> Street. A sign indicated that the property was occupied by Iglesia Penteco Unida Hispana or United Hispanic Pentecostal Church. SCS reported that no evidence of recognized environmental conditions was identified during their inspection of the property. Historical information indicated that the property was initially developed for commercial use as early as 1948 when the current structure was built. Historical uses included a furniture store and a real estate office. SCS concluded that their assessment revealed no evidence of recognized environmental conditions in connection with the property and no further investigation of the property was warranted or recommended.

***Phase I ESA, 5887 Atlantic Avenue, Long Beach, California, 90805, Tait Environmental Management, Inc., December 17, 2004***

***(Map ID# 16)***

Tait Environmental Management Inc. (TEM) conducted a Phase I ESA of a portion of the property located in the western block of the site. TEM reported that at the time of their assessment the site was a vacant retail store and apartment residences. TEM found that the site was first developed in 1947 and was occupied by a doctor's office. They also noted that a cleaners was listed at 881 Atlantic Avenue. Further, during the site reconnaissance TEM personnel observed several capped pipes protruding from the sidewalk along the southern exterior wall of the building. TEM personnel were unable to determine the origin or uses of the pipes and Mr. Ramin (the site owner) was unable to provide insight.

TEM identified one recognized environmental condition relating to the existence of pipes protruding from the sidewalk along the exterior wall of the building. TEM concluded that because the pipes may have been related to former USTs at the site, further investigation would be necessary to assess the current subsurface conditions at the site. TEM indicated that initially, the investigation could focus on obtaining additional information to determine the origin of the pipes. According to TEM, if this proves unsuccessful, then a limited Phase II Environmental Site Assessment may be warranted. No information regarding further assessment was conveyed to Rincon.

Please note that the client provided document contained only text and no figures or appendices were provided.

***Phase I ESA, 5843/5845/5847 Atlantic Avenue, Long Beach, California, 90805, Tait Environmental Management Inc., December 17, 2004***

***(Map ID#21)***

Tait Environmental Management Inc. (TEM) conducted a Phase I ESA for a portion of the site located in the western block. TEM reported that at the time of their assessment, the site was developed with retail stores, apartment residences, and a garage. The site was first developed prior to 1928 with several structures (residences at 5845). During the site reconnaissance, TEM personnel observed a capped pipe protruding from the sidewalk in front of 5843 B Atlantic Avenue (Emmanuel Medical Supply). TEM personnel were unable to determine the origin or uses of the pipe and Mr. Ramin (the site owner) was unable to provide insight. TEM personnel also noted that a cleaners was formerly located approximately 100 feet to the south of the site in 1952. TEM noted that gasoline stations and/or automotive repair facilities were located at the intersection of Atlantic Avenue and South Street since the late 1930s. TEM believes there is a possibility that leaks of hazardous materials from these facilities, if they occurred, could impact the site. However, TEM estimated that the probability of the site having been impacted by leaks of hazardous materials from these facilities is low.

TEM identified one recognized environmental condition at the site relating to the existence of a pipe protruding from the ground in front of 5843B Atlantic Avenue. Because the pipe may have been related to a former UST at the Site, TEM concluded that

further investigation is necessary to assess the subsurface conditions at the site and the possibility of a UST. No information regarding further assessment was conveyed to Rincon.

Please note that the client provided document contained only text and no figures or appendices were provided.

***Phase I ESA, 5855 Atlantic Avenue (APN 7125-033-021), Long Beach, California, SCS Engineers, April 13, 2005***

***(Map ID#20)***

SCS prepared a Phase I ESA for a portion of the site on the western block. SCS reported that the property was first developed for residential use in 1927 and appears to have been intermittently used for office, retail (House of Beauty) and residential purposes since then. SCS reported that at the time of their site reconnaissance the property was occupied with a single-story, single family dwelling with a small front yard. SCS concluded that their assessment revealed no evidence of recognized environmental conditions in connection with the property. SCS indicated that no further investigation was warranted or recommended for the property.

***Phase I ESA, Kindermann Property, 5869 Atlantic Avenue (APN 7125-033-019), Long Beach California 90805, Tait Environmental Management Inc., July 18, 2005***

***(Map ID#18)***

Tait Environmental Management, Inc. (TEM) prepared a Phase I ESA for the site and reported that at the time of their site reconnaissance the subject property consisted of a two-story building with a parking area to the rear. A driveway and an additional parking area were located along the west border of the subject property and give access to the parking area at the rear of the subject property. TEM noted that the building was used by the Long Beach Unified School District and had apartment residences. TEM concluded that based on their investigation of the property no RECs or further assessment appears warranted.

Please note that the client provided document contained only text and no figures or appendices were provided.

***Phase II ESA, 5801 Atlantic Avenue (APN 7125-033-030), Long Beach, California, SCS Engineers, October 28, 2005***

***(Map ID#14)***

A Phase I ESA was conducted by SCS and is summarized in a report dated October 17, 2002. The Phase I ESA indicated that a gasoline service station at 5801/5803 Atlantic Avenue was present from at least 1925-1955 when two USTs were removed from the property. No records were available regarding soil sampling and analysis for the tank removal. In addition, SCS indicated that historical information identified two automobile repair shops formerly located on the property. One shop listed at 509 South Street was on the property from at least 1940 though 1968 and the second shop listed at 521 S. Street was on the property from at least 1927 though 1953. These automobile service shops and the gasoline service station were identified as recognized environmental conditions by SCS. To evaluate the recognized environmental conditions mentioned above, SCS

advanced seven borings (B1-B7) at the site using a Geoprobe drill rig on October 21, 2005. Samples from borings B1 through B5 were collected at 1-, 5-, 10-, 15-, and 20-feet below grade. Samples from Boring B6 and B7 were collected at 1-, 5-, and 10-feet below grade. SCS reported that 19 soil samples were analyzed for VOCs and one sample (B2-10') had concentrations of benzene and toluene at concentrations of 11.4 and 10.3 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), respectively. Three of the 19 soil samples contained concentrations of TPH in the diesel range and heavy hydrocarbon ranges. Samples B1-5', B3-5', and B6-5' contained concentrations of diesel at 27.39, 12.4 and 13 mg/kg and heavy hydrocarbons at concentrations of 256, 159, and 54.2 mg/kg, respectively.

In addition, SCS reported that four samples were analyzed for metals and compared to background levels and EPA established PRGs. Three metals, zinc, arsenic, and lead had concentrations that exceeded the background ranges typical for California soils. Concentrations of zinc were below the EPA Preliminary Remediation Goals (PRGs) and thus indicated that there is no significant human health risk. Further, arsenic concentrations were above PRGs but within background levels typical of California soils. Lead was detected in three of the four shallow soil samples at concentrations ranging from 243 to 421 mg/kg which is above the California-modified PRG of 150 mg/kg.

On October 21, 2005 SCS also conducted a soil vapor investigation of the site and collected and analyzed four samples for VOCs. No detectable concentrations of VOCs were reported.

SCS concluded that there has been no significant impact to the property from VOCs and further investigation was not recommended with regard to VOCs at the property. Further, SCS concluded the concentrations of TPH are below the Los Angeles Regional Water Quality Control Boards (RWQCB) soil screening levels for petroleum hydrocarbons and thus further investigation is not recommended with regards to TPH at the property. SCS further concluded that since lead concentrations are above the residential PRGs, if the property is to be used for residential use in the future, additional sampling should be conducted. SCS indicated that further investigation is not recommended if any future commercial or industrial uses of the property are planned. In addition, SCS recommended that with regard to disposal of soils from the property, the lead concentrations were above 50 mg/kg which is used as a trigger to conduct further waste characterization analysis. Therefore, prior to removal of any soil from the property, additional analytical characterization should be conducted on representative soils to determine appropriate disposal options.

***Phase I ESA, 5852-5892 Linden Avenue (APNs 7125-033-001 through -007), Long Beach, California, 90805, SCS Engineers, October 31, 2005***

***(Map ID#s 1-7)***

SCS prepared a Phase I ESA of the portions of the western block of the site. SCS reported that the property consists of seven parcels which were partially developed for residential and commercial uses by 1925. The entire property appears to have been developed by 1953. The portion of property along Linden Avenue has always been residential. The SCS assessment revealed no evidence of recognized environmental conditions in connection with the property and SCS did not recommend any further investigation.

*Phase I ESA, 5879 Atlantic Avenue (APN 7125-033-018), Long Beach, California, 90805, SCS Engineers, July, 2006*

*(Map ID#17)*

SCS conducted a Phase I ESA at the site and observed that at the time of their site reconnaissance the property consisted of two structures including a single story building being used as a church and a residence. SCS reported that the property was undeveloped land prior to 1939. The dwelling observed on the property was constructed in 1939 and has been used only as a residence since that time. The church building on the eastern end of the property was reportedly constructed in 1946 for use as a store. Occupants have included a china store, pharmacy, furniture store, delicatessen, and the current church. SCS concluded that their assessment revealed no evidence of recognized environmental conditions in connection with the property. No further investigations were recommended.

**East Block**

*Phase I ESA, North Long Beach Library Project and Community Center (APNs 7124-032-001 through -06, -009 through -020, and -028 through -029), Long Beach, California, SCS Engineers, April 7, 2005*

*(Map ID#s 25-44)*

SCS prepared a Phase I ESA that covered the entire eastern block of the site. SCS noted that no environmental concerns were noted during the site inspection. Historical information indicated that portions of the property were developed for residential use as early as 1925. SCS noted that a gasoline service station was located on the southwestern corner of the property at 5800 Atlantic Avenue (APN 7124-032-029) from 1969 until 1981. In addition, SCS noted that a gasoline release from a UST was reported in August of 1989 at the 5800 Atlantic Avenue site. Environmental Science & Engineering (ESE) conducted further investigation to determine the extent of contamination and initiated quarterly groundwater sampling. Remediation activities for soil and groundwater were conducted and ESE reported that contamination by petroleum hydrocarbons was limited to soil directly adjacent to and groundwater down gradient of the former tank area. Remediation was conducted using vapor extraction and groundwater pump and treat. The RWQCB issued closure in July 1996. SCS reported that although investigations and remediation of gasoline impacts on the property have been completed in accordance with RWQCB requirements, their analytical data indicated that there are low levels of residual gasoline impacts to the property.

At the time of the site reconnaissance, SCS observed that the property was currently occupied by a mix of residential and commercial structures. The eastern half of the block was developed solely for residential use with the exception of the most southerly portion, which was a Judo Studio. The western half of the block was developed for commercial use. A furniture store and House of Prayer occupied the northern portion, a parking lot occupied the central portion with a small theater/bookstore to the south of it, and an Auto Zone with associated parking occupied the most southerly portion. Oil staining and used oil containers were observed throughout the AutoZone parking lot and in the center of the western portion of the block. In addition, SCS observed that the parking lot had an



asphalt patch in the center of the lot. No RECs were observed during the site inspection performed by SCS.

SCS reported that the property, as with the surrounding area, was developed with a mix of residential and commercial uses since the 1920s. The entire eastern portion of the property was exclusively residential. Commercial uses of the property along Atlantic Avenue and South Street included offices, various retail stores, a restaurant, a theater, and a beauty shop. The only identified use of environmental concern was the service station located on the southwest corner of the property at 5800 Atlantic Avenue (APN 7124-032-029) from 1969 until 1981. SCS concluded that the presence of a service station with five underground storage tanks was a historical recognized environmental condition for the property.

SCS identified three properties in the vicinity of the site that were historically gasoline service stations. One was located to the west across Atlantic Avenue at 5801/5803 Atlantic Avenue from at least 1926 through 1948. One was located across South Street at 5738 Atlantic Avenue from at least 1940 through 1968, and the third was located to the west at 495 South Street from at least 1953 through 1968. Several auto repair shops were also located on South Street (486, 494, 509, and 521 South Street) west of the property. SCS found that the three nearby service stations are generally down- or cross-gradient with respect to groundwater flow direction in the area. However, due to historic rises in groundwater, SCS believes it is possible that fuel related contamination from one or more of these sites has impacted groundwater beneath the property.

SCS also observed an existing gasoline station to the south across East South Street located at 5740 Atlantic Avenue (historical information indicates that presence of this service station since at least 1940). This site was identified in the regulatory database information as a leaking underground storage tank (LUST) site. A release of gasoline was reported at this facility in July 1988. Groundwater was impacted and methyl-tert-butyl ether (MTBE) was detected in groundwater at 41,000 parts per billion (ppb). SCS concluded that based on anticipated groundwater flow direction (southerly), this facility is not expected to impact the subject property.

SCS concluded that their assessment revealed no evidence of recognized environmental conditions in connection with the property and further investigation of the property was not recommended at that time. SCS noted that residual fuel impacted soil and groundwater should be considered for any future development of the property. They also noted that depending on the proposed future site use, further investigation and remediation may be warranted. SCS suggested that a Soil Management Plan be prepared that would identify and appropriately manage any contaminated soils that may be encountered during grading. In addition, SCS suggested that a health risk assessment be prepared to evaluate the human health risks for sensitive uses (i.e., residential or childcare) of future site occupants.

## RECORDS REVIEW

### PHYSICAL SETTING SOURCES

#### Topography

The current USGS topographic map (Long Beach Quadrangle, 1978, photorevised 1981) indicates that the site is situated at an elevation of about 45 to 50 feet above mean sea level with topography sloping to the south. The adjacent topography consists of relatively flat land that gently slopes to the south.

#### Geology and Hydrogeology

##### Site Geology

The site is underlain by recent Quaternary aged alluvium deposits consisting of alluvium and alluvial fan deposits. Near site-specific geologic information was obtained from the GeoTracker website from the south adjacent 76 gasoline service station (5740 Atlantic Avenue) which has had numerous subsurface investigations conducted by a variety of consultants. It is likely that the geology and hydrology beneath the subject site does not significantly differ from that below the adjacent 76 gasoline service station. The following information was obtained from a report titled *Additional Site Assessment Report* that was prepared by Delta Consultants and dated September 21, 2007. Delta reported that the surface sediments encountered at the site correspond to the Lakewood Formation. The deeper soils vary slightly between the borings but were primarily silts and clays to a depth of approximately 40 feet below grade. These sediments are characteristic of the Bellflower Aquiclude. The first water-bearing formation encountered (40 to 60 feet below ground surface) consisted primarily of silty sands, poorly graded sands, and well graded sands. This water bearing formation likely corresponds with the semi-perched Aquifer.

##### Regional Groundwater Occurrence and Quality

The site is located within the West Coast Subbasin of the Coastal Plain of the Los Angeles County Groundwater Basin. The West Coast Basin is bounded on the north by the Ballona Escarpment, the east by the Newport-Inglewood fault zone, and the south and west by the Pacific Ocean and consolidated rocks of the Palos Verdes Hills. The Los Angeles River is located approximately 0.5 miles to the west.

The most recent groundwater monitoring and sampling report prepared by TRC, dated January 4, 2008, for the fourth quarter 2007 sampling event for the adjacent 76 Service Station was reviewed on the GeoTracker website maintained by the RWQCB. This report indicated that depth to groundwater ranged from 24.2 to 27.23 below top of casing with an average groundwater elevation of 21.58 feet above mean sea level. The groundwater flow direction was variable and ranged from the northwest, southwest, and southeast with a gradient of 0.01 ft/ft. The overall site vicinity groundwater gradient is trending to the south.

## STANDARD ENVIRONMENTAL RECORD SOURCES

Environmental Data Resources, Inc. (EDR) was contracted to provide a database search of public lists of sites that generate, store, treat or dispose of hazardous materials or sites for which a release or incident has occurred. The EDR search was conducted for the subject property and included data from surrounding sites within a specified radius of the property. A copy of the EDR report, specifying the ASTM 05 search distance for each public list, is included in Appendix 2. As shown on the attached EDR report, Federal, State and County lists were reviewed as part of the research effort.

Several of the subject properties were listed on the CORTESE, LUST, UST, EDR Historical Auto Stations, EDR Historical Cleaners and HAZNET databases in the EDR report.

In addition, several of the adjacent properties to the south and west were listed on the CORTESE, LUST, UST, EDR Historical Auto Stations, HIST UST, SWEEPS UST, and CA FID databases in the EDR database.

Sites that were identified within the approximate minimum search distance of the subject property are listed in Table 2, EDR Listing Summary of Sites Within 1/8 Mile of the Subject Property (see Appendix 2 for a complete listing of sites reported by EDR) and include sites that appear in the following databases:

**Ca. FID:** California Facilities Inventory Database contains active and inactive underground storage tank locations as provided by the California State Water Resources Control Board.

**CORTESE:** Identified Hazardous Waste and Substance Sites. This database (from the CAL EPA/Office of Emergency Information) identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration.

**DRYCLEANERS:** A list of dry cleaning related facilities that have EPA ID Numbers. These are facilities with certain SIC codes as follows: power laundries, family and commercial, garment pressing and cleaners' agents, linen supply, coin-operated laundries and cleaning, dry cleaning plants except rugs, carpet and upholsterer cleaning, industrial launderers, laundry and garment services.

**EDR Historical Auto Stations:** A collection of potential gas station/filling station/service station sites searched by EDR from a national collection of business directories.

**EDR Historical Cleaners:** A collection of potential dry cleaner sites searched by EDR from a national collection of business directories.

**HAZNET:** Hazardous Waste Information System. Data that is extracted from the copies of hazardous waste manifests received each year by the DTSC (information is provided by the Department of Toxic Substances Control).

**HistUST:** The Hazardous Substance Storage Container Database is a historical listing of UST sites. This database is maintained by the State Water Resources Control Board.

**LUST:** LUST records contain an inventory of reported leaking underground storage tank incidents. This database is maintained by the State Water Resources Control Board.

**RCRA-(TSD, LQG, SQG):** RCRAInfo is U.S. EPA’s comprehensive information system providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data and recording abilities of the Resource Conservation and Recovery Information System (RCRIS). The RCRAInfo database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by RCRA. Conditionally exempt small quantity generators (CESQG) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQG) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQG) generate over 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month. Transporters move hazardous wastes from the generator off-site to a facility that can recycle, treat, store or dispose of the waste. TSDs treat store or dispose of the waste.

**SWEEPS UST:** This underground storage tank listing was updated and maintained by a company contacted by the State Water Resources Control Board in the early 1980s. This listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

**UST:** The UST database contains registered USTs. This database is maintained by the State Water Resources Control Board.

**Table 2 - EDR Listing Summary of Sites Within 1/8 Mile of the Subject Property**

<b>Site Name</b>	<b>Site Address</b>	<b>Distance / Direction From Subject Property</b>	<b>Database</b>
Long Beach Redevelopment Agency	5822 Linden Avenue	Subject Property (ID #12)	Haznet
Sears Savings Bank / Former Shell Parts USA Gibson Shell Service	5800 Atlantic Avenue	Subject Property (ID #31)	CORTESE, LUST, UST, EDR HISTORICAL AUTO STATIONS,
NLB Cleaners	5823 Atlantic Avenue	Subject Property (ID #24)	EDR Historical Cleaners
Beyer Paul	5885 Atlantic Avenue	Subject Property (ID #16)	EDR Historical Auto Stations
Larry's Speed D-Service	5801 Atlantic Avenue	Subject Property (ID #14)	EDR Historical Auto Stations, UST

Site Name	Site Address	Distance / Direction From Subject Property	Database
76 Products Station #1112 Atlantic Union Service	5740 Atlantic Avenue	Adjacent 0-1/8 South	CORTESE, LUST, CA FID UST, HIST UST, SWEEPS UST, and EDR Historical Auto Stations
Shipley's Flying A Service	495 South Street	Adjacent 0 to 1/8 West	EDR Historical Auto Stations, UST
South Street Junior Market South Liquor North Long Beach Radiator Service Joel Hammon Garage	494 South Street	Adjacent 0-1/8 West	CORTESE, LUST, CA FID UST, UST, HIST UST, SWEEPS UST, and EDR Historical Auto Stations
MTF Photo Labs	5714 Atlantic Avenue	0-1/8 South	RCRA-SQG
H&H Motors	455 South Street	0-1/8 West	RCRA-SQG
Danny	5990 Atlantic Avenue	0 to 1/8 North	UST,
Rosita Cleaners	5647 Atlantic Avenue	0 to 1/8 South	DRYCLEANERS
Huddleston	5921 Atlantic Avenue	0 to 1/8 North	EDR Historical Auto Stations
Quality Transmission	5966 Atlantic Avenue	0 to 1/8 North	EDR Historical Auto Stations
Cliff's Flying A Service	5990 Atlantic Avenue	0 to 1/8 North	EDR Historical Auto Stations
Miller's Texaco Service	6001 Atlantic Avenue	0 to 1/8 North	EDR Historical Auto Stations
Wood, E.H.	486 South Street	0 to 1/8 West	EDR Historical Auto Stations
Port Bros. Union Service	5738 Atlantic Avenue	0 to 1/8 South	EDR Historical Auto Stations
A&H Motors	455 South Street	0 to 1/8 West	EDR Historical Auto Stations
Davis Automatic Laundry	5932 Atlantic Avenue	0 to 1/8 North	EDR Historical Cleaners
Paramount Cleaners	5999 Atlantic Avenue	0 to 1/8 North	EDR Historical Cleaners
Levine Morris	5729 Atlantic Avenue	0 to 1/8 South	EDR Historical Cleaners
Dodge Cleaners	5618 Atlantic Avenue	0 to 1/8 South	EDR Historical Cleaners

**EDR Listing on the Subject Property**

The subject property was listed several of the databases searched by EDR. The following is a brief summary of each listing:

***Long Beach Redevelopment Agency- 5822 Linden Avenue***

This site is listed on the HAZNET database and is located in the southwestern portion of the west block (Map ID #12). The site was previously a single-family residence and has been demolished. According to the EDR report the waste generated at the site was 1.68 tons of asbestos containing material. No further information was provided. It is likely that this

material was generated during the demolition of the structure. This known contaminated material was most likely disposed at a licensed facility and is not anticipated to impact the subject site. Based on the known quantities and disclosed nature of the waste, the listing at 5822 Linden Avenue is not anticipated to pose an environmental concern to the subject property.

***Sears Savings Bank/Former Shell Parts USA/Gibson Shell Service- 5800 Atlantic Avenue***

This facility is listed on the CORTESE, LUST, UST, and the EDR Historical Auto Stations databases and is located in the southwest corner of the eastern block of the site (Map ID #31). The site has been redeveloped and is occupied by an AutoZone retail car parts facility. The site was formerly occupied by a Shell gasoline service station which reported a leaking underground storage tank on March 17, 1989. The gasoline leak impacted groundwater and several site assessments were conducted in 1989 and 1991. A release case was opened with the Los Angeles Regional Water Quality Control Board (Case Number 908050252). Remediation was conducted in 1991 and verification monitoring was conducted in 1995. The case was closed on July 19, 1996. Further discussion of this facility is provided in the Review of Agency Files portion of this report.

***NLB Cleaners- 5823 Atlantic Avenue***

This facility was listed on the EDR Historical Dry Cleaners database and was located in the southeastern portion of the western block of the site (Map ID # 24). The structure which housed this facility is no longer present. The historical cleaner occupied the site between 1948 and 1952. A previous Phase I assessment indicated the possible presence of a former dry cleaning facility but could not distinguish whether it was a dry cleaning or a simple clothes laundry facility. No subsurface investigation was performed and no further information was provided. The lack of definitive information about this facility's practices is an environmental concern as more fully discussed later in this report.

***Paul Beyer- 5885 Atlantic Avenue***

This facility was listed on the EDR Historical Auto Stations Database and was located in the northeast corner of the western block of the site (Map IDs #15, 16, and 17). The facility was a gasoline service station in 1939. No further information was provided. The lack of definitive information about this facility's practices is an environmental concern as more fully discussed later in this report.

***Larry's Speed D-Service-5801 Atlantic Avenue***

This facility was listed on the EDR Historical Auto Stations database and was located in the southeast corner of the west block of the site (Map ID# 14). This facility reportedly occupied the site from 1931 through 1948 under a variety of different owners. As previously noted in the client provided documents section of this report, a Phase II site investigation was conducted at this site by SCS Engineers and is described in a report dated October 28, 2005. In this report SCS indicated that soil samples from seven borings to depths of up to 20 feet below grade and soil vapor samples from four locations were collected at this property. Concentrations of TPH in diesel and oil ranges were reported but at concentrations below RWQCB soil screening levels. Further, concentrations of lead were reported in several samples at concentrations that exceeded residential PRG values. Concentrations of VOCs were not reported at the site. SCS recommended that if the

property was to be used for residential uses in the future, or if soil was to be removed from the property, additional soil sampling and characterization should be conducted. No further information was provided. As a former gasoline service station with a known release and known residual contaminated soil, this facility is an environmental concern as more fully discussed later in this report.

### **EDR Listings Adjacent to the Subject Property**

The following three facilities are listed on the CORTESE, LUST, CA FID, UST, HIST UST, SWEEPS UST, and EDR Historical Auto Stations databases:

#### ***76 Products Station #1112/Atlantic Union Service- 5740 Atlantic Avenue (Adjacent to the South)***

This facility is located adjacent to the south of the eastern block of the subject site, across East South Street. According to the EDR report, a release of gasoline from a UST was discovered on July 5, 1988 and Case # 908050198 was opened with the Los Angeles Regional Water Quality Control Board. According to the online Geotracker database maintained by the State Water Resources Control Board, the case status is currently open and assessment is underway. Several assessment reports were reviewed as a part of this investigation. These reports indicated that twelve (10 onsite and 2 offsite) groundwater monitoring wells are present at this facility. The closest groundwater monitoring wells to our subject site are monitoring wells BC-3 and BC-6 along the northern property line of the site and adjacent to the sidewalk bordering East South Street. The historic groundwater flow gradient has consistently been to the south and west. From the December 3, 2007 groundwater sampling event, well BC-3 had concentrations of 160,000, 20,000, 25,000, 3,800, and 7,200, micrograms per liter ( $\mu\text{g/l}$ ) of TPHg, benzene, toluene, ethylbenzene, and MTBE, respectively. Well BC-6 had reported concentrations of 18,000, 2,700, 1,100, 170, and 190  $\mu\text{g/l}$  of TPHg, benzene, toluene, ethylbenzene, and MTBE, respectively. The northerly extent of the plume has yet to be delineated and a September 21, 2007 workplan prepared by Delta Consultants proposed to install three off-site groundwater monitoring wells in the parking lot of the AutoZone store to evaluate this concern. Due to reported difficulties in obtaining off-site access to the AutoZone property, several extensions for the Site Assessment report have been requested. To date it is unclear if the additional assessment work has been conducted.

To obtain additional information regarding the site, Mr. John L. Chiang (Case Worker) of the L.A. RWQCB was contacted by Rincon. Mr. Chiang has retired and the case has been passed to Mr. Gregg Kwey. To date, Mr. Kwey has not returned our phone calls regarding the current case status of this facility. As a gasoline service station with a known release affecting groundwater with potential migration northward towards the subject site, this facility is an environmental concern as more fully discussed later in this report.

#### ***Shipley's Flying A Service- 495 South Street (Adjacent to the West)***

This facility was listed in the EDR Historical Auto Stations Database and was also listed in the city directories reviewed for the site. The EDR report indicates that the site was a gasoline service station from at least 1952 to 1963. This facility is located adjacent to the west of the west block of the site. As a former gasoline service station with a known

release and known residual contaminated soil, this facility is an environmental concern as more fully discussed later in this report.

***South Street Junior Market/South Liquor/North Long Beach Radiator Service/Joel Hammon Garage- 494 South Street (Adjacent to the southwest)***

This facility is located adjacent to the southwest of the western block of the subject property. According to the EDR report a gasoline release was discovered on December 2, 1992 and impacted groundwater beneath the site. Case # 908050334 was opened with the Los Angeles RWQCB and according to the online Geotracker database maintained by the State Water Resources Control Board, the case was closed on July 25, 1996. As a former gasoline service station with a known release, this facility is an environmental concern as more fully discussed later in this report. Further discussion of this facility is provided in the Review of Agency Files portion of this report.

**EDR Listings within 1/8 Mile of the Subject Property**

Sixteen listings were identified for sites within 1/8 mile of the subject property. These sites were not listed as unauthorized release sites. These listings were for RCRA-SQG, EDR Historical Auto Stations, EDR Historical Cleaners, UST, and DRYCLEANERS databases. It is possible that historic activities at these sites have impacted soil and groundwater. However, none of these sites are listed on databases that indicate chemical spills, leaks, or unauthorized releases. No specific sites were identified that appear to have released chemicals that have migrated onto the subject site. Despite the lack of any known releases, it is possible that contaminants from offsite releases may have affected or are currently affecting the subject site. However, due to the distance of these sites from the subject property, we have not requested file reviews with any agencies.

**ADDITIONAL ENVIRONMENTAL RECORD SOURCES**

**Review of Agency Files**

As a follow-up to the database search and the site reconnaissance, we filed a request with the Los Angeles Regional Water Quality Control Board (RWQCB) to review documents pertaining to available files for the subject property and an adjacent property of concern. Selections of the files are included in Appendix 5 of this report. The following is a brief summary of the documents that were reviewed:

***Sears Savings Bank/Former Shell Parts USA/Gibson Shell Service- 5800 Atlantic Avenue (onsite)***

The records for this site indicated that a Shell gasoline service station occupied the site address of 5800 Atlantic Avenue from 1970 to 1980. The station had five underground storage tanks (USTs) that were removed from the site in December of 1980. In 1982 the site was redeveloped as an Allstate Savings Bank. The records indicate that environmental investigation of the former gasoline service station began in June of 1987 when three borings (B-1, B-2, and B-3) were drilled in and adjacent to the former underground tank area. Soil samples and one groundwater sample were collected and analyzed for petroleum hydrocarbons. Analytical results indicated that petroleum hydrocarbons were present in soil and groundwater beneath the site. Later in the fall of 1989 borings B-4 through B-10 were drilled and borings B-4 through B-8 were converted



to groundwater monitoring wells. Concentrations of petroleum hydrocarbons were limited to soil directly adjacent to the former tank area and groundwater down gradient of the former tank area. In December of 1990 two additional borings (HB-1 and HB-2) were drilled to 15 feet below grade through the floor of the bank building and soil samples were collected for analysis. The soil samples indicated that petroleum hydrocarbons existed only at 5 feet below ground surface and at concentrations less than 100 mg/kg. In 1991 groundwater monitoring wells B-11, B-12, and B-13 were drilled and sampled. Petroleum hydrocarbons were detected in well B-11 in groundwater and in B-12 in soil and groundwater. It is believed that the petroleum hydrocarbons detected in B-12 are related to the release from the Unocal station to the south of the subject site. Also, in 1991 vapor extraction wells VEW-1, VEW-2, and VEW-3 were drilled/installed in the former tank area. TPH concentrations were detected in soil between 10 and 20 feet below grade in the former tank area. Later, in 1992 groundwater extraction wells (WV-1 and WV-2) and vapor extraction wells VEW-4, VEW-5, VEW-6, and VEW-7 were drilled/installed. The soil vapor extraction system began operation in April of 1993 and operated to May 1994. SVE removed an estimated 29,910 pounds of petroleum hydrocarbons from the soil. Vapor concentrations decrease from 3,470 parts per million volume to 25 ppmv. The groundwater pump and treat system recovered approximately 5 million gallons of groundwater while in operation between March 10, 1993 and May 6, 1994 which resulted in the removal of approximately 32.5 gallons of gasoline. The treatment of groundwater ceased in May 1994 when it was determined that the system was pulling contaminated groundwater from the Unocal station south of the site into the down gradient wells. The reports show that groundwater generally flowed south-southwesterly in direction at about 30 feet below grade.

In August of 1994 ESE conducted confirmation soil sampling (borings CB-1 and CB-2) and TPH was detected at 10 and 20 feet below grade at concentrations up to 115 mg/kg. CB-2 was then converted into a vapor extraction well to remove contamination. In June of 1995 ESE conducted additional confirmation sampling (borings CB-3 through CB-6) where no TPH was found but low concentrations of BTEX were detected between 0.006 and 0.437 mg/kg between 20 and 35 feet below grade. ESE believes that the BTEX concentrations remaining at the site are trapped in fine-grained soil and are not easily extracted and thus do not pose a significant environmental threat. Based on the soil remediation data, the results of general minerals analysis and groundwater usage, and the proximity of the site to the Unocal plume, ESE believed that no additional work was necessary and requested closure on behalf of Shell. Immediate closure was not granted by the RWQCB and additional rounds of groundwater sampling were conducted.

ESE prepared a groundwater monitoring report dated July 15, 1996 for the 2<sup>nd</sup> quarter of 1996 and requested case closure from the RWQCB. The report indicated that wells B6, B11, B12, B13, and WV-3 were sampled. Analytical results indicated that no concentrations of TPH were present and low concentrations of benzene, toluene, ethylbenzene, and total xylenes (0.072, 0.021, 0.007, 0.017 mg/L, respectively) were reported. ESE again requested case closure from the RWQCB.

In a July 19, 1996 letter from the RWQCB to Shell, confirmed the completion and case closure of the site investigation and remedial action for the underground storage tanks formerly located at the site. No further action was mandated or requested by the

RWQCB. The remaining five groundwater monitoring wells were abandoned as documented in the Wayne Perry report dated September 30, 1996. No further information was provided in the documents reviewed.

Thus, it appears that residual soil and groundwater impacted soil exists beneath the site.

***South Street Junior Market/South Liquor/North Long Beach Radiator Service/Joel Hammon Garage- 494 South Street (Adjacent to the southwest)***

The records for this site indicate that it was originally a convenience market and gas station that operated at the subject site and was known as Eddie's Liquor & Jr. Market. They reportedly had two 10,000-gallon underground gasoline storage tanks that were installed in 1973. The tanks were removed from the site on December 2, 1992 and soil samples were collected in the vicinity of the former tanks. In February of 1993 six borings (borings B1 through B6) were advanced to determine the vertical and lateral extent of hydrocarbon contamination in the soil beneath the site. Laboratory analysis indicated that petroleum hydrocarbon, benzene, and total xylenes impacted soil was present at the site. Further, the vertical extent of benzene impacted soil had not been fully defined with the borings to 25 feet below grade.

Three additional soil borings (B7, B8, and B9) were advanced to 55 below grade on July 7, 1993. Boring B7 was converted to a groundwater monitoring well and subsequently sampled. Laboratory results indicated that benzene was present in the soil from boring B7 at 30 and 35 feet below grade. No other samples had concentrations above the laboratory detection limits. In addition, the groundwater sample had no reported concentrations above the laboratory detection limits. As a precaution the consultant recommended performing additional groundwater sampling for four consecutive quarters to assess the potential for benzene migration to groundwater. Three groundwater monitoring wells were also installed in January of 1994. Four groundwater sampling events were conducted at this facility. With the exception of the February 1994 groundwater sampling event, there was no evidence of contaminated groundwater. This groundwater sampling event reported traces of benzene, toluene, ethyl benzene, and total xylenes (BTEX). The concentrations were below maximum contaminant levels (MCLs) for all constituents with the exception of benzene. The next groundwater sampling event, conducted in June of 1994, did not have any detectable benzene concentrations. With this groundwater information the consultant requested formal site closure from the RWQCB. In a letter dated July 25, 1996 the RWQCB issued case closure for the site.

**Review of State of California Division of Oil and Gas Records**

A review of the District W1-5 Oil and Gas map (June 29, 2006) located on the Department of Conservation, Division of Oil, Gas & Geothermal (DOG) Resources website indicates that the nearest oil well, George L. Clayton, is located approximately 1,500 feet north of the subject property. Specifically, the oil well is identified as a drilling-idle and plugged well.

**HISTORICAL USE INFORMATION ON THE PROPERTY AND THE ADJOINING PROPERTIES**

The historic records review completed for this Phase I ESA includes aerial photographs, topographic maps, Sanborn fire insurance maps and city directory listings as detailed in

the following sections. Our review of historical aerial photographs, topographic maps, fire insurance maps, and city directory listings for the site indicates that the site was developed with residences from at least 1928. No evidence of former agricultural use onsite was apparent from the aerial photographs. Several gasoline service stations and cleaning business have occupied the site. Presently, the site is partially developed with five buildings as noted in the 2008 site reconnaissance section of Table 3- Historical Use of the Subject Property.

### **Review of Historic Aerial Photographs**

Aerial photographs were reviewed from 1928, 1938, 1947, 1956, 1968, 1976, 1989, 1994, and 2002. The date and source of each photograph and the observations noted are summarized in Table 3. Copies of the aerial photographs are included in Appendix 1.

### **Review of Historic Topographic Maps**

Historic USGS topographic maps for the Downey and Long Beach, California 7.5 minute quadrangles were reviewed from 1901, 1902, 1947, 1951, 1964, 1972, and 1981. Copies of the historic topographic maps are included in Appendix 1. Table 3 lists the historical uses of the site based on our review of the available topographic maps.

### **Review of City Directory Listings**

EDR was contracted to provide copies of city directory listings for the site. Table 3 lists the historical uses of the site based on our review of the available city directory records. A copy of the EDR directories is included in Appendix 1.

### **Review of Fire Insurance Maps**

EDR was contracted to provide copies of fire insurance maps for the site. Sanborn maps from 1963 and 1950 were provided and were reviewed. Copies of the fire insurance maps are included in Appendix 1.

**TABLE 3 - HISTORICAL USE OF THE SUBJECT PROPERTY**

Year	Use	Source
<b>Subject Property -West Block-</b> <b>Linden Avenue- 5822, 5826, 5836, 5844, 5850, 5852, 5860, 5866, 5874, 5878, 5886, 5892</b> <b>E. South Street- 501</b> <b>Atlantic Avenue- 5801, 5823, 5827, 5835, 5845, 5855, 5869, 5879, 5887, 5893</b>		
<b>Map ID #1- APN: 7125-033-916</b> <b>5892 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but the intersection of 59th Street and Linden Avenue are present.	AP- Fairchild
1938	The site is developed with a single residential structure.	AP- Laval
1939	H.J. Shook (5892)	CD- Los Angeles Directory Co.
1944	H.J. Shook (5892)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1948	H.J. Shook (5892)	CD- Los Angeles Directory Co.
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Harry J. Shook (5892)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Harry J. Shook (5892)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Harry J. Shook (5892)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP- USGS
2000	Jose Bosque (5892)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5892)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #2- APN: 7125-033-911</b> <b>5886 Linden Avenue</b>		

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1944	D.W. Ostermeyer (5886)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with a residential structure.	AP- Fairchild
1948	J.P. Wells (5886)	CD- Los Angeles Directory Co.
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Jas P. Wells (5886)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Mrs. Belva C. Wells (5886)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Jas P. Wells (5886)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP- USGS
2000	Theodore Webb (5886)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Josephina Valdez (5886)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #3- APN: 7125-033-912 5878 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with one residential structure.	AP- Fairchild
1935	D.L. Hathaway (5826)	CD- Los Angeles Directory Co.
1938	The site appears similar to the 1928 photograph.	AP- Laval
1939	E.C. Power (5878)	CD- Los Angeles Directory Co.
1944	J.I. Land (5878)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1948	J.E. Land (5878)	CD- Los Angeles Directory Co.
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	J.E. Land (5878)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	John Land (5878)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Martin McGuinn (5878)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	David L. Kula (5878)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Theodore Webb (5878)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Jim Coley (5878)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #4- APN: 7125-033-917</b>		
<b>5874 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1944	L.N. Martin (5874)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed with a residential structure.	AP- Fairchild
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1956	L.N. Martin (5874)	CD- Los Angeles Directory Co.
1957	Everett A. Lister (5874)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Ronald E. Venrich (5874)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1969	Meryl M. Austin (5874)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Enrique Ortiz (5874)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5874)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #5- APN: 7125-033-918 5866 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1944	Bonnie C. Coppedge (5866)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with a residential structure.	AP- Fairchild
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	J. Cain (5866)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Jos A Cain (5866)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Jos A Cain (5866)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Walter K. Parker (5866)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Anna A. Parker (5866)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Trinidad Mota (5866)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Trinidad Mota (5866)	CD- Haines Company Inc.

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<b>Year</b>	<b>Use</b>	<b>Source</b>
2008	Vacant	Site Visit
<b>Map ID #6- APN: 7125-033-919 5860 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is vacant and similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Coppedge (5860)	CD- Los Angeles Directory Co.
1956	The site is developed with a residential structure.	AP- Fairchild
1957	Barney C. Coppedge (5860)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Barney C. Coppedge (5860)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Bonnie C. Coppedge (5860)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	B.C. Coppedge (5860)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	B.C. Coppedge (5860)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Amanda Garcia (5860)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Ego, Facio (5860)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #7- APN: 7125-033-914 5852 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey



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<b>Year</b>	<b>Use</b>	<b>Source</b>
1947	The site appears to be vacant and similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as two dwellings with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Cox (5852)	CD- Los Angeles Directory Co.
1956	The site is developed with a residential structure.	AP- Fairchild
1957	Franklin H. Cox (5852)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Franklin H. Cox (5852)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Mrs. June Pace (5852)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	C. Weston (5852)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	xxx (5852)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #8- APN: 7125-033-907</b>		
<b>5850 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1935	H. Moore (5850)	CD- Los Angeles Directory Co.
1938	The site is developed with a rectangular-shaped single family residence.	AP- Fairchild
1939	Mrs. Moore (5850)	CD- Los Angeles Directory Co.
1944	Mrs. Moore (5850)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1948	W.H. Afiddler (5850)	CD- Los Angeles Directory Co.
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	W.H. Afiddler (5850)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1957	Fiddler (5850)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Fiddler (5850)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Fiddler (5850)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Fiddler (5850)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Paul R. Kunce (5850)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Norman Cease (5850)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Norman Cease (5850)	CD- Pacific Bell Telephone
2000	Norman Cease (5850)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5850)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #9- APN: 7125-033-905</b>		
<b>5844 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is vacant land as depicted in the 1938 photograph.	AP- Fairchild
1950	The site is depicted as vacant land.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site is developed with a residential structure.	AP- Teledyne
1969	Apartments (5844)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Betty and O.A. Martens (5844)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Betty Martens (5844)	CD- Pacific Telephone

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Betty Martens (5844)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Betty Martens (5844)	CD- Pacific Bell Telephone
2000	E. Hullett and Betty Martens (5844)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #10- APN: 7125-033-915 5836 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as vacant land.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site is developed with a residential structure and a detached garage.	AP- Fairchild
1957	Apartments- Multiple Residents (5836)	CD- Pacific Telephone
1963	The site is depicted as developed with a residential dwelling and a detached garage.	FIM- Sanborn
1963	Apartments- Multiple Residents (5836)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Apartments- Multiple Residents (5836)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Apartments- Multiple Residents (5836)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	M.L. Enax (5836)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Nora R. Pla and M.L. Enax (5836)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	M.L. Enax (5836)	CD- Pacific Bell Telephone
2000	Richard Kahrs (5836)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS

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<b>Year</b>	<b>Use</b>	<b>Source</b>
2006	Multiple Residents (5836)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #11- APN: 7125-033-913 5826 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with one residential structure.	AP- Fairchild
1935	Dunor Wildman (5826)	CD- Los Angeles Directory Co.
1938	The site use appear similar to the 1928 photograph.	AP- Laval
1939	B.C. Wildman (5826)	CD- Los Angeles Directory Co.
1944	Wildman (5826)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1948	Wildman, B.C. (5826)	CD- Los Angeles Directory Co.
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Wildman, B.C. (5826)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Blaine C. Wildman (5826)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Blaine C. Wildman (5826)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Mrs. Gratia A. Wildman (5826)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	B.C. Wildman (5826)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	B.C. Wildman (5826)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	William Wagner (5826)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No current listing (5826)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #12- APN: 7125-033-920 5822 Linden Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is vacant but Linden Avenue is present.	AP- Laval
1944	V.C. Nicholson (5822)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with one residential structure.	AP- Fairchild
1948	V.C. Nicholson (5822)	CD- Los Angeles Directory Co.
1950	The site is depicted as a dwelling with a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	A.E.B. Foster and V.C. Nikesun (5822)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Willard D. Chellis and Harry D. Mcullough (5822)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Jim G. Fengolio (5822)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Paul J. Wright (5822)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Paul J. Wright (5822)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Matt Applegate (5822)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Mata Wylfred (5822)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Mata Wilfred (5822)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #13- APN: 7125-033-906 501 E. South Street</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is cleared and the southern portion of the site appears to be paved.	AP- Fairchild
1938	The site appears similar to the 1928 photograph.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with a rectangular building in the southwest corner of the site and paved parking areas to the north and east.	AP- Fairchild

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1950	The site is depicted as developed with three buildings including a sign painting and an <b>automotive repair facility</b> .	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	S. Bacher Signs of California and Jo Jos Beauty Salon (501)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	S. Bacher Signs of California and Jo Jos Beauty Salon (501)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Howell BB Painting, Boyce Manufacturing and Hobby Craft, Jo Jos Beauty Salon (501)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Jo Jos Beauty Salon (501)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant asphalt paved parking lot.	Site Visit
<b>Map ID #14- APN: 7125-033-908</b>		
<b>5801 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a rectangular structure in the southeast corner of the site.	AP- Fairchild
1938	The site appears similar to the 1928 photograph, however more of the site appears to be paved and several additional structures are in the north and west areas.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with several buildings that <b>appear to be a gasoline service station</b> .	AP- Fairchild
1950	The site is depicted as developed with an <b>auto repair and painting shop, a small office structure, and a gas and oil dispenser island in the southeast corner of the site</b> .	FIM- Sanborn

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	The site is depicted as developed with a rectangular-shaped building with a bank. The former auto repair facility and office are no longer depicted at the site.	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site has been redeveloped with a large rectangular shaped building in the southeast corner of the site and the previous structures are absent. Parking areas to the north and west were observed.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Crocker National Bank Branch Offices (5801)	CD- Pacific Bell Telephone
1989	The site is similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant asphalt paved parking lot.	Site Visit
<b>Map ID #15- APN: 7125-033-900</b>		
<b>5893 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The area is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant and graded but no structures were observed.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with one small structure in the northeast corner of the site.	AP- Fairchild
1950	The site is depicted as developed with a rectangular structure which is indicated as a furniture store.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site is fully developed with a large rectangular-shaped structure.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant- storage yard.	Site Visit
<b>Map ID #16- APN: 7125-033-901</b>		
<b>5887 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The area is vacant but Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant and graded but no structures were observed.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with one small structure.	AP- Fairchild
1950	The site is depicted as developed with a rectangular office building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Physician and Dentist Offices (5887)	CD- Los Angeles Directory Co.
1956	The site is developed with a rectangular-shaped office building.	AP- Fairchild
1957	Physician and Dentist Offices (5887)	CD- Los Angeles Directory Co.
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Physician and Dentist Offices (5887)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1964	Two Physicians (5887)	CD- Pacific Telephone
1967	Irving Moskowitz, MD (5887)	CD- R.L. Polk & Co.
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Two Physicians and Two Dentists (5887)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Medical Office (5887)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Medical Office (5887)	CD- Pacific Telephone



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<b>Year</b>	<b>Use</b>	<b>Source</b>
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Dentist and Medical Offices (5887)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Dentist and Medical Offices (5887)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Dentist and Medical Office (5887)	CD- Pacific Bell Telephone
2000	D.T. Fleiter (5887)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5887)	CD- Haines Company Inc.
2008	Vacant storage yard with storage trailer.	Site Visit
<b>Map ID #17- APN: 7125-033-923 5879 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The area is developed with a half-arc shaped driveway from Atlantic Avenue and extending to the south.	AP- Fairchild
1938	The site is vacant and graded but no structures were observed.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is vacant and graded.	AP- Fairchild
1948	Mrs. Mattie A. Temby (5879)	CD- Los Angeles Directory Co.
1950	The site is depicted as developed with a store fronting Atlantic Avenue and a dwelling to the west.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Mrs. Mattie A Temby and W. E. Dolliver (5879)	CD- Los Angeles Directory Co.
1956	The site is developed with two rectangular-shaped structures.	AP- Fairchild
1957	A: Johanna T. Harvey and B: Vacant	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Albert A. Blockart, A. Patrella (5879)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Mrs. Mary Hamilton (5879)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Clarence Broughton (5879)	CD- Pacific Bell Telephone

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	xxxx (5879)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant storage yard.	Site Visit
<b>Map ID #18- APN: 7125-033-909</b>		
<b>5869 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The area is developed with a half-arc shaped driveway from Atlantic Avenue and extending to the north and south.	AP- Fairchild
1938	The site is vacant and graded but no structures were observed.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is depicted as vacant graded land.	AP- Fairchild
1950	The site is depicted as vacant and undeveloped.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Vacant (5869)	CD- Los Angeles Directory Co.
1956	The site appears to be developed with a large commercial building.	AP- Fairchild
1957	STGE and self serve furniture co. (5869)	CD- Pacific Telephone
1963	The site is depicted as developed with a large square-shaped commercial structure.	FIM- Sanborn
1963	Molly Pitchers Maple Shoppe Furniture (5869)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Vacant (5869)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Cycle Parts (5869)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Dicks Motorcycle Parts & Accessories (5869)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	First Step Independent Living (5869)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	First Step Independent Living (5869)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Newness of Life (5869)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS

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<b>Year</b>	<b>Use</b>	<b>Source</b>
2008	Vacant building with three units and upstairs apartment lofts with parking to the south and west.	Site Visit
<b>Map ID #19- APN: 7125-033-910</b>		
<b>5869 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The area is developed with a half-arc shaped driveway from Atlantic Avenue and extending to the north.	AP- Fairchild
1938	The site is vacant and graded but no structures were observed.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is vacant graded land.	AP- Fairchild
1950	The site is depicted as vacant and undeveloped.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Vacant (5869)	CD- Los Angeles Directory Co.
1956	The site appears to be an asphalt paved driveway.	AP- Fairchild
1957	STGE and self serve furniture co. (5869)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Molly Pitchers Maple Shoppe Furniture (5869)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Vacant (5869)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Cycle Parts (5869)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Dicks Motorcycle Parts & Accessories (5869)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	First Step Independent Living (5869)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	First Step Independent Living (5869)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Newness of Life (5869)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Asphalt paved parking lot and driveway access.	Site Visit
<b>Map ID #20- APN: 7125-033-902</b>		
<b>5855 Atlantic Avenue</b>		

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1931	P.E. Gober (5855)	CD- Los Angeles Directory Co.
1935	Maxwell Henning (5855)	CD- Los Angeles Directory Co.
1938	The site is developed with a rectangular-shaped structure.	AP- Laval
1939	Maxwell Henning (5855)	CD- Los Angeles Directory Co.
1944	Maxwell Henning (5855)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with a square structure and a detached garage.	AP- Fairchild
1950	The site is depicted as developed with an office structure and a detached garage.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	D.K. McQuarry and Helen's House of Beauty (5855)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Mrs. Mabel Peterson (5855)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Usher Shoes (5855)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	William Booth Chiropractor (5855)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Jackelina Garcia (5855)	CD- Pacific Bell Telephone
2000	Satumino Gonzalez (5855)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #21- APN: 7125-033-903</b>		
<b>5845 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a rectangular building and associated driveway.	AP- Fairchild
1931	Fred O. Flaker (5845)	CD- Los Angeles Directory Co.
1935	Carrie Moor (5845)	CD- Los Angeles Directory Co.
1938	The site use appears to be the same as the 1928 photograph.	AP- Laval
1939	Bess Morre (5845)	CD- Los Angeles Directory Co.
1944	Carrie Moor (5845)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears developed with a structure.	AP- Fairchild
1948	R.P. Green (5845)	CD- Los Angeles Directory Co.
1950	The site is depicted as developed with one structure subdivided into one office and two storefronts and a detached garage to the west.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Mrs. Kidder, Great Lakes Carbon Corp Well Supply, Garret, Kidder W. Jerry & Clark Real Estate (5845)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Kidder Stanley Insurance, Zwieng Reading Guidance Center (5845)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1964	Reading Guidance Center, Inc. (5845)	CD- Pacific Telephone
1967	Kidder Stanley Insurance (5845)	CD- R.L. Polk & Co.
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Vacant (5845)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Shaklee Basic Distributor (5845)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Shaklee Basic Distributor, C.J. Reynolds, Staten & Colette Rippstein (5845)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Loren Ferris (5845)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #22- APN: 7125-033-904</b> <b>5835 Atlantic Avenue</b>		

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a rectangular shaped structure and associated driveway.	AP- Fairchild
1938	The site use appears to be the same as the 1928 photograph.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as developed with one rectangular building divided into two stores.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Union Clothing Men's (5835)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Lenny's Fashions for Men and Union Clothing Co. (5835)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Lenny's Fashions for Men (5835)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Lenny's Fashions for Men (5835)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Davlins TV & Appliance (5835)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Davlins TV & Appliance (5835)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Adventure Printing (5835)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Chin Moen (5835)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #23- APN: 7125-033-921</b>		
<b>5827 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a rectangular-shaped structure and a detached garage building to the west.	AP- Fairchild
1938	The site use appears to be the same as the 1928 photograph.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as developed with a rectangular shaped office structure along Atlantic Avenue and a detached garage to the west.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Frank's Shoe Repairing (5827)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Frank's Shoe Repairing (5827)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Le NGOC (5827)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #24- APN: 7125-033-922</b>		
<b>5823 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Linden Avenue is present.	AP- Fairchild
1938	The site is developed with a square-shaped structure.	AP- Laval
1944	H.A. Young (5823)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1947	The site appears similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as developed with a square structure along Atlantic Avenue that is subdivided into 3 stores and a dwelling to the west.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	<b>NLB Cleaners</b> and Saraceno Tailor (5823)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Vacant (5823)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Black Stallion Tavern (5823)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Black Stallion Tavern (5823)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Black Stallion Tavern (5823)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	The Stallion (5823)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	The Stallion (5823)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	The Stallion (5823)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	The Stallion (5823)	CD- Pacific Bell Telephone
2000	Arthur Noble (5823)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<p><b>Subject Property -East Block- Lime Avenue- 5821, 5833, 5837, 5841, 5849, 5853, 5861, 5865, 5873, 5881, 5885, 5895 Atlantic Avenue- 5800, 5834, 5870 E. South Street- 635</b></p>		
<p><b>Map ID #25- APN: 7125-032-900 5870 Atlantic Avenue</b></p>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Laval
1944	Atlantic Theater (5870)	CD- R.L. Polk & Co.



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<b>Year</b>	<b>Use</b>	<b>Source</b>
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with a large square structure that is similar to the present.	AP- Fairchild
1950	The area is depicted as developed with a connected furniture store and movie theater buildings similar to the existing structures.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Atlantic Theater (5870)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Atlantic Theater (5870)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Atlantic Theater (5870)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Vacant (5870)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1974	Atlantic Theater (5870)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Atlantic Theater (5870)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Long Beach Big Screen Inc.(5870)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Liberty Baptist Church (5870)	CD- Pacific Bell Telephone
2000	New Directions Christian Fellowship and Jenkins Mack (5870)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant buildings formerly as a church and furniture sales building.	Site Visit
<b>Map ID #26- APN: 7125-032-901</b>		
<b>No Address</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1947	The site is developed as an asphalt paved parking lot area.	AP- Fairchild
1950	The area is depicted as vacant and undeveloped.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #27- APN: 7125-032-902 No Address</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed as an asphalt paved parking lot area.	AP- Fairchild
1950	The area is depicted as vacant and undeveloped.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS

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<b>Year</b>	<b>Use</b>	<b>Source</b>
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #28- APN: 7125-032-903 No Address</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed as an asphalt paved parking lot area.	AP- Fairchild
1950	The area is depicted as vacant and undeveloped.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #29- APN: 7125-032-904 No Address</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1947	The site is developed as an asphalt paved parking lot area.	AP- Fairchild
1950	The area is depicted as vacant and undeveloped.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #30- APN: 7125-032-905</b>		
<b>5834 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Atlantic Avenue is present.	AP- Fairchild
1938	The site is vacant but the intersection of 59th Street and Atlantic Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed as an asphalt paved parking lot area.	AP- Fairchild
1950	The site is depicted as developed with a rectangular shaped building occupied by a restaurant.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Clock Supper Club Liquors (5834)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Cock o The North Tavern (5834)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Cock o The North Tavern (5834)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears to be developed with a rectangular-shaped commercial building.	AP- Teledyne
1969	Back Door Tavern (5834)	CD- Pacific Telephone

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1974	Back Door Cocktail Lounge (5834)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Back Door Cocktail Lounge (5834)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Manuel Gonzalez (5834)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant site building formerly occupied by an adult bookstore.	Site Visit
<b>Map ID #31- APN: 7125-032-029</b>		
<b>5800 Atlantic Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is cleared and graded with several dirt paths and some vegetation.	AP- Fairchild
1938	The site is developed with a large square structure occupying the southwest corner of the site. Associated parking area to the north and a cleared area to the east exist.	AP- Laval
1939	Mifflin Meats, A Dollar Markets Office, Wong Foon Fruit, Clara Gilbert Beauty Shop, and Thomson Liquors (5800)	CD- Los Angeles Directory Co.
1944	Dollar Markets General Office and Mifflin Meats (5800)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	With the exception of an asphalt paved parking area to the east, the site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as developed with a large commercial structure in the southwest corner of the site.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Dollar Markets Grocery and Van De Kamps Holland Dutch Bakers Inc. (5800)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Choura John & Son Meat and McCoys Market Inc.	CD- Pacific Telephone

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	BBQ Snack Bar Restaurant, Mallards Troy Liquors, and Self Bros Meats Restaurant (5800)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph with the exception of the demolition of one of the buildings in the center of the site.	AP- Teledyne
1969	Vacant (5800)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	<b>Gibson Shell Service (5800)</b>	CD- Pacific Telephone
1976	The site appears to have had the large rectangular commercial structure demolished and three smaller structures are constructed in a pattern resembling a <b>typical gasoline service station.</b>	AP- Teledyne
1980	<b>Ecology Shell Station (5800)</b>	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Sears Savings Bank (5800)	CD- Pacific Bell Telephone
1989	The three structures present in the 1976 aerial photograph are no longer present and rectangular shaped building (similar to the present) is now located in the northern portion of this site.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	AutoZone (5800)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	AutoZone (5800)	CD- Haines Company Inc.
2008	Occupied by AutoZone with a commercial parking area to the south.	Site Visit
<b>Map ID #32- APN: 7125-032-912</b>		
<b>5895 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a rectangular structure and a garage building at the intersection of 59th Street and Lime Avenue.	AP- Fairchild
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed similar to the 1938 photograph.	AP- Fairchild

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as two residential dwellings without a detached garage.	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #33- APN: 7125-032-914 5885 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant but Lime Avenue is present.	AP- Fairchild
1938	The site is vacant but Lime Avenue is present.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with one residential structure.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #34- APN: 7125-032-915</b>		
<b>5881 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with two square structures.	AP- Fairchild
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	The site is developed with two dwellings and one detached garage.	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #35- APN: 7125-032-911</b>		
<b>5873 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a square structure and secondary garage building.	AP- Fairchild



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<b>Year</b>	<b>Use</b>	<b>Source</b>
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2008	Vacant	Site Visit
<b>Map ID #36- APN: 7125-032-906</b>		
<b>5865 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with one building or residence.	AP- Fairchild
1931	D.H. Patton (5865)	CD- Los Angeles Directory Co.
1935	Mrs. Graves (5865)	CD- Los Angeles Directory Co.
1938	The site appears to be developed similar to the 1928 photograph.	AP- Laval
1939	L.E. Miles (5865)	CD- Los Angeles Directory Co.
1944	Clarence McLaughlin (5865)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is depicted as developed with a dwelling and a detached garage building.	FIM- Sanborn
1950	Clarence Williams (5865)	CD- Pacific Telephone
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	C.A. Williams (5865)	CD- Los Angeles Directory Co.

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Louis F. Rafael (5865)	CD- Pacific Telephone
1960	Louis F. Rafael (5865)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Louis F. Rafael (5865)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1964	Louis F. Rafael (5865)	CD- Pacific Telephone
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Louis F. Rafael (5865)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	M.L. Bryan (5865)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	M.L. Bryan (5865)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	M.L. Bryan (5865)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	M.L. Bryan (5865)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
1995	Socorro Tienda Maria (5865)	CD- Pacific Bell Telephone
2000	Teresa Flores (5865)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5865)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #37- APN: 7125-032-907</b>		
<b>5861 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with one building or residence.	AP- Fairchild
1931	J.B.O. Day (5861)	CD- Los Angeles Directory Co.
1935	H.E. Patchin (5861)	CD- Los Angeles Directory Co.
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1939	Mrs. Ella Towns (5861)	CD- Los Angeles Directory Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling building.	FIM- Sanborn

**Phase I Environmental Site Assessment**  
**North Village Center Redevelopment Project EIR, Long Beach, California**

<b>Year</b>	<b>Use</b>	<b>Source</b>
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Otis Knight (5861)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1960	Otis Knight (5861)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Otis Knight (5861)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	No Return (5861)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Francisco Medina (5861)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	M. Garlick and C. Charron (5861)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Tracy (5861)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #38- APN: 7125-032-908</b>		
<b>5853 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant.	AP- Fairchild
1938	The site is developed with a rectangular shaped structure.	AP- Laval
1939	C.E. Bishop (5853)	CD- Los Angeles Directory Co.
1944	H.A. Teodorski (5853)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1950	Richard L. Belville (5853)	CD- Pacific Telephone
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Vacant (5853)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	John Smith (5853)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn

**Phase I Environmental Site Assessment**  
**North Village Center Redevelopment Project EIR, Long Beach, California**

<b>Year</b>	<b>Use</b>	<b>Source</b>
1963	Chas. G. Stolitca (5853)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1964	Jas. O. Webster (5853)	CD- Pacific Telephone
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	No Return (5853)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Ralph Cordova (5853)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Ralph Cordova (5853)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	David Richardson (5853)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5853)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #39- APN: 7125-032-913</b>		
<b>5849 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is vacant.	AP- Fairchild
1938	The site is developed with a rectangular shaped structure.	AP- Laval
1939	C.W. Wallace (5849)	CD- Los Angeles Directory Co.
1944	J.A. Morrison (5849)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Orville Byrd (5849)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Fred Eversfield (5849)	CD- Pacific Telephone
1960	Claude Humphreys (5849)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Claude Humphreys (5849)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne

**Phase I Environmental Site Assessment**  
**North Village Center Redevelopment Project EIR, Long Beach, California**

<b>Year</b>	<b>Use</b>	<b>Source</b>
1969	Mrs. Ruby Brown (5849)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Harold Haines (5849)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Dane Sadd (5849)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5849)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #40- APN: 7125-032-917</b>		
<b>5841 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a square structure.	AP- Fairchild
1931	H.L.O. Williams (5841)	CD- Los Angeles Directory Co.
1935	H.L.O. Williams (5841)	CD- Los Angeles Directory Co.
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1939	H.L.O. Williams (5841)	CD- Los Angeles Directory Co.
1944	H.L.O. Williams (5841)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling building.	FIM- Sanborn
1950	H.L.O. Williams (5841)	CD- Pacific Telephone
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	H.L.O. Williams (5841)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	H.L.O. Williams (5841)	CD- Pacific Telephone
1960	H.L.O. Williams (5841)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	H.L.O. Williams (5841)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1964	H.L.O. Williams (5841)	CD- Pacific Telephone
1968	The site appears similar to the 1956 photograph.	AP- Teledyne

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1969	H.L.O. Williams (5841)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	H.L.O. Williams (5841)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	H.L.O. Williams (5841)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	H.L.O. Williams (5841)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Tarek Saleh (5841)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Tarek Saleh (5841)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #41- APN: 7125-032-917</b>		
<b>5837 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with a square structure and paved cleared area to the west.	AP- Fairchild
1931	C.A. Reynolds (5837)	CD- Los Angeles Directory Co.
1935	M. Shepherd (5837)	CD- Los Angeles Directory Co.
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1939	C.W. Wetteroth (5837)	CD- Los Angeles Directory Co.
1944	J.W. Thompson (5837)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling building.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Thus Hobbs (5837)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Thus Hobbs (5837)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Mrs. Ophelia Hobbs (5837)	CD- Pacific Telephone

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Greg Roberson (5837)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	P. Jenkins and T.R. Carlson (5837)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	P. Jenkins and T.R. Carlson (5837)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Sharon Savoy (5837)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Sharon Savoy (5837)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #42- APN: 7125-032-910</b>		
<b>5833 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with one residential structure.	AP- Fairchild
1931	B.J. Grunest (5833)	CD- Los Angeles Directory Co.
1935	W.J. Hanson (5833)	CD- Los Angeles Directory Co.
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1939	W.J. Hanson (5833)	CD- Los Angeles Directory Co.
1944	W.J. Hanson (5833)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1950	W.J. Hanson (5833)	CD- Pacific Telephone
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	W.J. Hanson (5833)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	W.J. Hanson (5833)	CD- Pacific Telephone
1960	W.J. Hanson (5833)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Mrs. Ellen Hanson (5833)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1964	Mrs. Ellen Hanson (5833)	CD- Pacific Telephone

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<b>Year</b>	<b>Use</b>	<b>Source</b>
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Mrs. Ellen Hanson (5833)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Mrs. Ellen Hanson (5833)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Joe Schmitt (5833)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Cathy King (5833)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5833)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #43- APN: 7125-032-909 5821 Lime Avenue</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is developed with one residential structure.	AP- Fairchild
1931	A.W. O. White (5821)	CD- Los Angeles Directory Co.
1935	A.W. O. White (5821)	CD- Los Angeles Directory Co.
1938	The site is developed similar to the 1928 photograph.	AP- Laval
1939	A.W. O. White (5821)	CD- Los Angeles Directory Co.
1944	A.W. O. White (5821)	CD- R.L. Polk & Co.
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site appears to be developed similar to the 1938 photograph.	AP- Fairchild
1950	The site is developed with a dwelling and a detached garage building.	FIM- Sanborn
1950	Alex White (5821)	CD- Pacific Telephone
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1952	Alex White (5821)	CD- Los Angeles Directory Co.
1956	The site appears similar to the 1947 photograph.	AP- Fairchild
1957	Mrs. Margaret White (5821)	CD- Pacific Telephone
1960	Alex White (5821)	CD- Pacific Telephone
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1963	Mrs. Margaret White (5821)	CD- Pacific Telephone
1964	The area is depicted as developed and urbanized.	TM- Long Beach



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<b>Year</b>	<b>Use</b>	<b>Source</b>
1964	Alex White (5821)	CD- Pacific Telephone
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Walter E. Gaddis (5821)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Walter E. Gaddis (5821)	CD- Pacific Telephone
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1985	Jeffery Olson (5821)	CD- Pacific Bell Telephone
1989	The site appears similar to the 1976 photograph.	AP- USGS
1991	Michael Brooks (5821)	CD- Pacific Bell Telephone
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Jonathan Orana (5821)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	No Current Listing (5821)	CD- Haines Company Inc.
2008	Vacant	Site Visit
<b>Map ID #44- APN: 7125-032-916 635 E. South Street</b>		
1901	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Southern California Sheet 1
1902	The site is depicted in an area with several roadways but no site specific development is depicted.	TM- Downey
1928	The site is graded and partially disturbed.	AP- Fairchild
1938	The site is a cleared parking lot.	AP- Laval
1947	The area is depicted as developed and urbanized.	TM- Downey
1947	The site is developed with a rectangular-shaped building	AP- Fairchild
1950	The site is developed with a rectangular commercial structure.	FIM- Sanborn
1951	The area is depicted as developed and urbanized.	TM- Long Beach Vicinity
1956	The site appears similar to the 1947 photograph with the exception of a larger rectangular building in the southeast corner of the site.	AP- Fairchild
1963	Depicted as similar to the 1950 Sanborn Map	FIM- Sanborn
1964	The area is depicted as developed and urbanized.	TM- Long Beach
1968	The site appears similar to the 1956 photograph.	AP- Teledyne
1969	Kodokan Judo (635)	CD- Pacific Telephone
1972	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1975	Ogden's Judo School (635)	CD- Pacific Telephone

Year	Use	Source
1976	The site appears similar to the 1968 photograph.	AP- Teledyne
1980	Ogden's Judo School (635)	CD- Pacific Telephone
1981	The area is depicted as developed and urbanized.	TM- Long Beach (photorevised from 1964)
1989	The site appears similar to the 1976 photograph.	AP- USGS
1994	Appears similar to the 1989 photograph.	AP-USGS
2000	Ernest Jones and Ogden's Judo School (635)	CD- Pacific Bell Telephone
2002	Appears similar to the 1994 photograph.	AP- USGS
2006	Ogden's Judo School (635)	CD- Haines Company Inc.
2008	Vacant building formerly occupied by an art gallery.	Site Visit

FIM – Fire Insurance Map  
 AP – Aerial Photograph  
 TM – Topographic Map  
 CD – City Directories

### BRIEF SITE HISTORY

#### West Block-

**Map ID #1- APN: 7125-033-916**  
**5892 Linden Avenue**

This property appears to have been first developed prior to 1938 with a residential structure. A detached garage was observed in 1950. The onsite structure appears to have been a single family residence until 2006 when it was demolished. The site is currently vacant graded land.

**Map ID #2- APN: 7125-033-911**  
**5886 Linden Avenue**

This property appears to have been first developed prior to 1944 with a residential structure and a detached garage. The onsite structure appears to have been a single-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #3- APN: 7125-033-912**  
**5878 Linden Avenue**

This property appears to have been first developed prior to 1928 with a residence and detached garage. The onsite structure appears to have been a single-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #4- APN: 7125-033-917**  
**5874 Linden Avenue**

This property appears to have been first developed prior to 1944 with a residential structure and detached garage. The structure appears to have been a single family residence until 2006 when it was demolished. The site is currently vacant graded land.

**Map ID #5- APN: 7125-033-918**  
**5866 Linden Avenue**

This property appears to have been first developed prior to 1944 with a residential structure and a detached garage. The structure appears to have been a single-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #6- APN: 7125-033-919**  
**5860 Linden Avenue**

This property appears to have been first developed prior to 1950 with a residential structure and a detached garage. The structure appears to have been a single-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #7- APN: 7125-033-914**  
**5852 Linden Avenue**

This property appears to have been first developed prior to 1950 with two residential structures and a detached garage. The structures appear in residential use through 2000 and were later demolished. The site is currently vacant graded land.

**Map ID #8- APN: 7125-033-907**  
**5850 Linden Avenue**

This property appears to have been first developed prior to 1935 with a residential structure and a detached garage. The structure appears to have been a single-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #9- APN: 7125-033-905**  
**5844 Linden Avenue**

This property appears to have been first developed prior to 1968 with a residential structure and a detached garage. The structure appears to have been a single-family residence through 2000 and was later demolished. The site is currently vacant graded land.

**Map ID #10- APN: 7125-033-915**  
**5836 Linden Avenue**

This property appears to have been first developed prior to 1956 with a multi-family residential structure and a detached garage. The structure appears to have been a multi-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #11- APN: 7125-033-913**  
**5826 Linden Avenue**

This property appears to have been first developed prior to 1928 with a single-family residential structure and a detached garage. The structure appears to have been a single family residence through 2000 and was later demolished. The site is currently vacant graded land.

**Map ID #12- APN: 7125-033-920**  
**5822 Linden Avenue**

This property appears to have been first developed prior to 1944 with a residential structure and a detached garage. The structure appears to have been a single-family residence through 2006 and was later demolished. The site is currently vacant graded land.

**Map ID #13- APN: 7125-033-906**  
**501 E. South Street**

This property appears to have been first developed prior to 1947 with a rectangular building in the southwest corner of the site. A second building to the east, a third building to the north, and paved parking areas to the north and east were added by 1950 and used as a sign painting and **automotive repair facility** until at least 1968. From 1975 through at least 1985 the site tenants included a painting contractor and a Beauty Salon. Prior to the 2008 site visit, the site buildings were demolished and the site is currently a vacant asphalt-paved parking lot.

**Map ID #14- APN: 7125-033-908**  
**5801 Atlantic Avenue**

This property appears to have been first developed prior to 1928 with a rectangular structure in the southeast corner of the site. Additional structures were added prior to 1938 and the site was depicted as used for **auto repair, paint shop, and a gasoline service station**. Between 1956 and 1963 the site was redeveloped with a rectangular-shaped bank building in the southeast corner of the site. The bank building was demolished prior to our 2008 site visit.

**Map ID #15- APN: 7125-033-900**  
**5893 Atlantic Avenue**

This property appears to have been first developed prior to 1947 with a rectangular-shaped structure fronting Atlantic Avenue which was noted to be occupied by a furniture store. The structure appears to have been a commercial store until it was demolished prior to the 2008 site reconnaissance. The site is currently a vacant lot used as a storage yard for City equipment and materials.

**Map ID #16- APN: 7125-033-901**  
**5887 Atlantic Avenue**

This property appears to have been first developed prior to 1947 with a rectangular-shaped structure fronting Atlantic Avenue which was noted to be used as an office. The structure appears to have been used as dental and doctors offices until it was demolished prior to our 2008 site reconnaissance. The site is currently a vacant lot used as a storage yard for City equipment and materials.

**Map ID #17- APN: 7125-033-923**  
**5879 Atlantic Avenue**

This property appears to have been first developed prior to 1948 with a rectangular-shaped structure fronting Atlantic Avenue and a dwelling to the west. It was demolished prior to our 2008 site reconnaissance. The site is currently a vacant lot used as a storage yard for City equipment and materials.

**Map ID #18- APN: 7125-033-909**  
**5869 Atlantic Avenue**

This property appears to have been partially first developed prior to 1928 with a half-arc shaped driveway until 1956 when the site was developed with a large commercial structure fronting Atlantic Avenue. This facility appears to have been a furniture store from 1957 through 1969, a motorcycle store from 1975 through 1980, and an independent living facility from 1985 through 1995. Most recently the commercial units were used by the Long Beach Unified School District as classrooms and by Labor Ready as an office. These units are currently vacant. The residential structures to the west and upstairs were also currently vacant.

**Map ID #19- APN: 7125-033-910**  
**5869 Atlantic Avenue**

This property appears to have been first developed as a driveway and parking lot area for the commercial and residential building adjacent to the north (5869 Atlantic Avenue) that was constructed in 1956. This property is currently an asphalt paved parking area.

**Map ID #20- APN: 7125-033-902**  
**5855 Atlantic Avenue**

This property appears to have been first developed with a commercial structure and detached garage in 1931. It has been used as a beauty shop, shoe store, and chiropractor's office. Prior to our 2008 site reconnaissance the building was demolished. The site is currently a vacant graded lot.

**Map ID #21- APN: 7125-033-903**  
**5845 Atlantic Avenue**

This property appears to have been first developed prior to 1928 with one rectangular shaped building fronting Atlantic Avenue that was subdivided into an office and two storefronts. A detached garage building was located to the west. The commercial building was occupied by a well supply company, an insurance company, a reading guidance center, and as a distribution center. The site building was demolished prior to our 2008 site reconnaissance and the site is currently a vacant graded lot.

**Map ID #22- APN: 7125-033-904**  
**5835 Atlantic Avenue**

This property appears to have been first developed prior to 1928 with a rectangular-shaped structure and driveway which was subdivided into two storefronts. The stores were occupied by a men's clothing store, a TV and appliance store, and a printing facility. The site building was demolished prior to our 2008 site reconnaissance and the site is currently a vacant graded lot.

**Map ID #23- APN: 7125-033-921**  
**5827 Atlantic Avenue**

This property appears to have been first developed prior to 1928 with a rectangular-shaped structure and a detached garage to the west. The stores were occupied by a shoe repair store and other retail stores. The site building was demolished prior to our 2008 site reconnaissance and the site is currently a vacant graded lot.

**Map ID #24- APN: 7125-033-922**  
**5823 Atlantic Avenue**

This property appears to have been first developed prior to 1938 with a square-shaped building along Atlantic Avenue and a dwelling to the west. The stores were occupied by a cleaners and tailor shop until 1963, and a tavern from 1963 through 1995. The site building was demolished prior to our 2008 site reconnaissance and the site is currently a vacant graded lot.

**East Block**

**Map ID #25- APN: 7125-032-900**  
**5870 Atlantic Avenue**

This property appears to have been first developed prior to 1944 with the large building which is currently present at the site. This building is divided into two sections; one used as a furniture store and the other used by a movie theater then later by a church. This property is currently vacant but the buildings remain.

**Map ID #26- APN: 7125-032-901**  
**No Address**

This property appears to have been first developed prior to 1947 as an asphalt paved parking lot for use by the theater and furniture store building adjacent to the north. The site has remained a parking lot since it was first developed and is currently a parking lot.

**Map ID #27- APN: 7125-032-902**  
**No Address**

This property appears to have been first developed prior to 1947 as an asphalt paved parking lot for use by the theater and furniture store building to the north. The site has remained a parking lot since it was first developed and is currently a parking lot.

**Map ID #28- APN: 7125-032-903**  
**No Address**

This property appears to have been first developed prior to 1947 as an asphalt paved parking lot for use by the theater and furniture store building to the north. The site has remained a parking lot since it was first developed and is currently a parking lot.

**Map ID #29- APN: 7125-032-904**  
**No Address**

This property appears to have been first developed prior to 1947 as an asphalt paved parking lot for use by the commercial building to the south. The site has remained a parking lot since it was first developed and is currently a parking lot.

**Map ID #30- APN: 7125-032-905**  
**5834 Atlantic Avenue**

This property appears to have been first developed prior to 1947 as an asphalt paved parking lot for use by the commercial building to the south. The site remained a parking lot until 1950 when a rectangular-shaped building noted to be a restaurant was built. The

building was occupied by a liquor store, a tavern and cocktail lounge, and most recently by an adult bookstore. The site building is currently vacant.

**Map ID #31- APN: 7125-032-029**  
**5800 Atlantic Avenue**

This property was first developed with a large square structure in the southwest corner of the site prior to 1938. This commercial store was occupied by a meat market, a fruit supplier, a beauty shop, a liquor store, a bakery, and a restaurant until 1969. The site was redeveloped and was used as a **gasoline service station** until 1985 when the site was redeveloped and a rectangular structure occupied by a bank was constructed. From 2000 until the present, the site has been occupied by an AutoZone car parts dealership and a parking area to the south and east.

**Map ID #32- APN: 7125-032-912**  
**5895 Lime Avenue**

This property appears to have been first developed with a rectangular residence and detached garage building prior to 1928. The structure appears to have been a single-family residence through at least 2002 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #33- APN: 7125-032-914**  
**5885 Lime Avenue**

This property appears to have been first developed with a rectangular residence and detached garage building prior to 1947. The structure appears to have been a single-family residence through at least 2002 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #34- APN: 7125-032-915**  
**5881 Lime Avenue**

This property appears to have been first developed with a rectangular residence and detached garage building prior to 1928. The structure appears to have been a single-family residence through at least 2002 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #35- APN: 7125-032-911**  
**5873 Lime Avenue**

This property appears to have been first developed with a rectangular residence and detached garage building prior to 1928. The structure appears to have been a single-family residence through at least 2002 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #36- APN: 7125-032-906**  
**5865 Lime Avenue**

This property appears to have been first developed with a rectangular residence and detached garage building prior to 1928. The structure appears to have been a single-family residence through at least 2006 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #37- APN: 7125-032-907**  
**5861 Lime Avenue**

This property appears to have been first developed with an irregular-shaped residential building prior to 1928. The structure appears to have been a single-family residence through at least 2006 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #38- APN: 7125-032-908**  
**5853 Lime Avenue**

This property appears to have been first developed with three attached dwelling units and a detached garage to the west prior to 1938. The structure appears to have been single-family residences through at least 2006 that were later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #39- APN: 7125-032-913**  
**5849 Lime Avenue**

This property appears to have been first developed with a rectangular residence and detached garage building prior to 1938. The structure appears to have been a single-family residence through at least 2002 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #40- APN: 7125-032-917**  
**5841 Lime Avenue**

This property appears to have been first developed with a square-shaped residence building prior to 1928. The structure appears to have been a single-family residence through at least 2006 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #41- APN: 7125-032-917**  
**5837 Lime Avenue**

This property appears to have been first developed with a square-shaped residence building and a paved area to the west prior to 1928. The structure appears to have been a single-family residence through at least 2006 and was later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #42- APN: 7125-032-910**  
**5833 Lime Avenue**

This property appears to have been first developed with a square-shaped residence building and a detached garage to the west prior to 1928. The structures appear to have been in residential use through at least 2002 and were later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #43- APN: 7125-032-909**  
**5821 Lime Avenue**

This property appears to have been first developed with a square-shaped residence building and a detached garage to the west prior to 1928. The structures appear to have



been in residential use through at least 2002 and were later demolished prior to our site reconnaissance. The site is currently vacant graded land.

**Map ID #44- APN: 7125-032-916**  
**635 E. South Street**

This property appears to have been first developed with a rectangular shaped building in the southeast corner of the site prior to 1947. The building has been occupied by a judo studio and most recently an art gallery. The site building is currently vacant.

**SITE RECONNAISSANCE AND INTERVIEWS**

Rincon Consultants performed a reconnaissance of the site on April 4, 2008 accompanied by Mr. Lee Mayfield, Redevelopment Project Officer with the Redevelopment Agency of the City of Long Beach. The purpose of the reconnaissance was to observe existing site conditions and to obtain information indicating the possible presence of recognized environmental conditions in connection with the property.

**INTERVIEWS**

An interview questionnaire was provided to Mr. Mayfield who represents the City of Long Beach Redevelopment Agency who is the current owner of the subject site. A copy of the completed questionnaire is included in Appendix 3.

**Interview with Owner**

The following information is based on information obtained during the April 4, 2008 interview and our review of the completed questionnaire.

Mr. Mayfield indicated that the onsite structures are at least 20 to 40 years old and have had a variety of different owners in the past. The City of Long Beach Redevelopment Agency currently owns the properties.

In his questionnaires Mr. Mayfield indicated that gasoline service station previously occupied the current AutoZone site and the tanks were removed but the site may not have been fully remediated. Further, Mr. Mayfield indicated that the stockpiles of asphalt and concrete at the site are from street reconstruction projects.

Mr. Mayfield indicated that he is not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property. Mr. Mayfield also indicated that he not aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property. In addition, he is not aware of any notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

**Interview with Site Manager**

With the exception of the AutoZone commercial automotive parts store, no other businesses were in operation and thus no site managers were present and none were interviewed as a part of this research effort.

### **Interviews with Occupants**

With the exception of the AutoZone commercial automotive parts store, no other businesses were in operation and thus no occupants were present and none were interviewed as a part of this research effort.

### **Interviews with Local Government Officials**

Rincon did not attempt to interview government officials as part of this research effort.

### **Interviews with Others**

Rincon did not attempt to interview neighboring property owners or others as part of this research effort.

## **SITE RECONNAISSANCE**

### **Methodology and Limiting Conditions**

The site reconnaissance was conducted by 1) observing the subject property from public thoroughfares, 2) observing the adjoining properties from public thoroughfares, 3) observing the interior and exterior of the onsite structure, 4) backtracking to correlate exterior features with interior features, as necessary, and 5) observing the subject property from sidewalks and the adjacent streets.

### **General Site Setting**

The site encompasses two city blocks in the City of Long Beach, California. The site is bound by East 59<sup>th</sup> Street to the north, Lime Avenue to the east, East South Street to the south, and Linden Avenue to the west. The site is bisected by Atlantic Avenue which trends north to south through the center of the site. The property is further identified as APNs 7125-033-900 through -923 and 7125-032-900 through -917 and -929. The site is located in an area that is primarily comprised of commercial businesses and residences. Properties in the vicinity of the site include single and multi-family homes, retail stores, offices, and a gasoline service station.

Water and sewer service is provided by the City of Long Beach. Southern California Edison (SCE) provides electrical service and the Southern California Gas Company provides natural gas service.

### **Current Use of the Property and Adjoining Properties**

The site is currently partially developed with mostly vacant structures including several office and residential units in the west block and a former adult book store, art gallery, church and furniture store on the eastern block. An operating AutoZone auto parts store located in the southwest portion of the eastern block is currently the only occupied structure on the site. The remaining areas are vacant graded land with concrete debris and asphalt remnants. Several gravel and soil stockpiles were observed in the northern portion of the western block. A construction staging area was observed in the northeast portion of the western block. Site and adjacent property photographs are depicted in Figures 4, 5, 6, and 7.

### **Past Use of the Property and Adjoining Properties**

Based on our site reconnaissance, the building on the west block with addresses of 5869-5873 Atlantic Avenue (Map ID#s 18 and 19) appears to have been formerly occupied by the Long Beach Unified School District as classrooms and by Labor Ready as an office. Further, the building located in the northwest portion of the eastern block at 5870 and 5874 Atlantic Avenue (Map ID#25) appears to have been occupied by New Directions Christian Fellowship and Name Brand Furniture, respectively. Also, the building located in the center of the eastern block at 5832-5834 Atlantic Avenue (Map ID #30) was formerly occupied by an adult-industry book store known as Front Door Theater and Bookstore. Finally, the vacant structure located in the southeast corner of the eastern block at 635 E. South Street (Map ID #44) was formerly occupied by an art gallery.

The past uses of the vacant lots at the subject property are not readily apparent since no structures remain.

### **Current or Past Uses in the Surrounding Area**

Because the subject property is completely surrounded by commercial and residential land uses, the former use of the surrounding area is not readily apparent.

### **Geologic, Hydrogeologic, Hydrologic and Topographic Conditions**

During the site reconnaissance, the existing topography of site appeared relatively level with a slight slope to the southwest.

### **General Description of Structures**

At the time of the site reconnaissance there were five structures at the site. On the western block (Map ID #18- 5869 Atlantic Avenue) there is one building that has four ground level office suites that front Atlantic Avenue to the east. Attached and to the west of these office suites are several 2<sup>nd</sup> level office/residence suites that are accessed via a stairway in the rear parking area. This building is surrounded by an asphalt paved parking area and block wall. On the eastern block there are four buildings at the site. The one occupied building is the one-story AutoZone retail store in the southwest corner of the block (Map ID# 31- 5800 Atlantic Avenue). It is bordered to the south by an asphalt paved parking lot accessed from E. South Street and Atlantic Avenue. The remaining three structures on the eastern block are unoccupied. The largest unoccupied structure is in the northwest corner (Map ID# 25- 5870 Atlantic Avenue) and consists of two joined buildings, one a former two-story church and worship facility and the second is a former furniture retail showroom with a mezzanine level. A second one-story unoccupied building (Map ID# 30- 5834 Atlantic Avenue), formerly occupied by an adult book store, is located on the west side of the eastern block to the north of the Auto Zone facility. The final unoccupied structure is a one story building located in the southeast corner of the eastern block (Map ID# 44- 635 E. South Street) that was formerly used as an art gallery. No other structures are present at the site.

### **Interior and Exterior Observations**

The periphery of the subject property was observed from adjacent public thoroughfares and access was provided to all of the buildings that remained at the site.

## **Hazardous Substances and Petroleum Products**

No hazardous substances or petroleum products were identified at the subject property.

## **Unidentified Substance Containers**

Unidentified substance containers or unidentified containers that might contain hazardous substances were not observed during the site reconnaissance.

## **Storage Tanks**

During the site reconnaissance, Rincon did not observe above-ground tanks or evidence of underground storage tanks presently at the site. Mr. Mayfield indicated on his questionnaire, Appendix 3, that there were below ground storage tanks on the property associated with a former gasoline station at the current Auto Zone property. No further indications of possible USTs were reported by Mr. Mayfield.

## **Odors**

During the site reconnaissance, Rincon did not identify any strong, pungent, or noxious odors. Mr. Mayfield indicated on his questionnaire, Appendix 3, that there have been no odors on the property.

## **Pools of liquid**

During the site reconnaissance, Rincon did not identify any pools of liquid including standing surface water. In addition, sumps containing liquids likely to be hazardous substances or petroleum products were not observed. Mr. Mayfield indicated on his questionnaire, Appendix 3, that there have been no pools of liquid, standing water or sumps on the property.

## **Drums**

Drums were not observed during the site reconnaissance.

## **Indications of Polychlorinated Biphenyls (PCBs)**

During the site reconnaissance, Rincon observed five separate pole-mounted transformers located in the central portions of each of the blocks trending to the north and south. There was no indication of a release in the vicinity of the transformers. Mr. Mayfield indicated on his questionnaire that he has no knowledge of the use or release of PCBs at the site.

## **Other Conditions of Concern**

During the site reconnaissance Rincon did not note any of the following interior or exterior observations:

- *heating/cooling systems*
- *stains or corrosion*
- *pits, ponds, and lagoons*
- *stressed vegetation*
- *waste water*

- wells
- septic systems/effluent disposal system

**Drains, Clarifiers, and Sumps** – An unidentified concrete structure, which appeared to have the same dimensions as a typical sump, was observed in the middle of the western block of the site (Figure 7, Photo 15). No liquid or evidence of stained concrete was observed.

**Stained Soil or Stained Pavement** – Several areas of staining on the asphalt paved parking area to the north of the 635 East South Street Site building (Map ID#44) were observed. The staining appears to be from automobiles parked in the parking lot. All of the stains appeared dry and no active source was identified.

**Solid Waste/Debris/Fill Material** – During the site reconnaissance Rincon personnel observed two rows of soil and gravel stockpiles in the north portion of the western block of the site. The origin of the stockpiles was not immediately available however, Mr. Mayfield indicated that they were from road construction conducted in the vicinity of the site.

**Unidentified Borings**- During the site reconnaissance Rincon personnel observed a circular-shaped asphalt patched area in the parking lot area south of the 5875 Atlantic Avenue site building (Figure 7, Photo 16). The area was marked with white spray pain for Underground Service Alert utility clearance and indicated that it was B8. It was judged likely to be an environmental boring conducted in conjunction with assessment work conducted at this site. Information regarding assessment work at this site was not conveyed to Rincon by the client.

## FINDINGS

Known or suspect environmental conditions associated with the property include the following:

- Map ID#s 1-7 and 10: The observed soil and concrete stockpiles in the northwest portion of the west block of the site reportedly from road construction conducted in the vicinity of the site.
- Map ID# 12: During our site reconnaissance Rincon personnel observed an abandoned concrete structure that may have been a former sump used at this facility.
- Map ID# 13: The facility located at 501 E. South Street in the southwest corner of the west block was historically used for sign painting and as an automotive repair facility from at least 1950 through at least 1968.
- Map ID# 14: The facility located at 5801 Atlantic Avenue in the southeast corner of the west block was historically used as a gasoline station and auto repair shop from as early as 1928 to at least 1956. The site is a closed LUST case and has known residual soil contamination including TPH as diesel and lead above regulatory thresholds.

- Map ID# 16: The facility located at 5885 Atlantic Avenue (interpreted to be at Map ID# 16) and known as “Paul Beyer” was listed on the Historical Auto Station database searched by EDR. Further, the TEM Phase I report dated December 17, 2004 noted that during the site reconnaissance a series of unidentified pipes along the southern exterior wall of the building were observed. The origin and use of these pipes were not determined.
- Map ID# 18: During the Rincon site reconnaissance two former boring locations marked B8 and B9 were observed in the southern parking lot of the building located at 5869 Atlantic Avenue. These borings are likely from a subsurface assessment conducted at this site. The information and data was not conveyed to Rincon.
- Map ID# 21: TEM prepared a Phase I ESA report dated December 17, 2004 which indicated that a pipe was protruding from the ground in front of the 5843B Atlantic Avenue address. The origin and use of the pipe was not determined.
- Map ID# 22: Review of historic city directory listings indicated that in 1991 a company known as Adventure Printing occupied the 5835 Atlantic Avenue site.
- Map ID# 24- The facility located at 5823 Atlantic Avenue was listed on the EDR Historic Dry Cleaners database and was identified as NLB Cleaners which was at the site from at least 1952 to at least 1957.
- Map ID# 31: The facility located at 5800 Atlantic Avenue had a historic gasoline service station at the site from 1969 to 1981. A release was reported which impacted soil and groundwater. Analytical data indicates that there are low levels of residual gasoline in the soil beneath the site and low levels of residual BTEX in the groundwater beneath the site.
- Map ID# 44: During the site reconnaissance Rincon observed stained asphalt to the north of the site building.
- Pole-mounted electrical transformers exist in the middle of both blocks trending north to south.
- An adjacent 76 Service Station (5740 Atlantic Avenue) exists to the south with an open LUST release case.
- Adjacent former Shipley’s Flying A Service station (495 South Street) to the west was listed on the EDR Historical Auto Stations database searched by EDR.
- Adjacent to the southwest is the facility known as the South Street Market (494 South Street) which had a LUST release case.

## OPINIONS

Map ID#s 1-7 and 10: The observed soil and concrete stockpiles in the northwest portion of the west block are reportedly from street repair projects conducted by the City of Long Beach in the vicinity of the site. Since they are from an unknown source that may be impacted the soil stockpiles are considered a recognized environmental condition.

Map ID# 12: Rincon personnel observed an abandoned concrete structure that may have been a former sump used at this facility. The concrete structure thought to be a possible sump did not have any liquid or evidence of staining. Review of the historic use of this property indicates it was a residence. It is unlikely a residence would use a sump. Therefore, it is likely this was an abandoned concrete footing or other structure not associated with waste disposal. Thus, the concrete structure is not anticipated to have impacted the site and is considered de minimis.

Map ID# 13: The facility located at 501 E. South Street in the southwest corner of the west block was historically used for sign painting and as an automotive repair facility. Both of these historic activities have the potential for a release of VOCs or petroleum hydrocarbons. No evidence of stained asphalt was observed however both uses represent a potential recognized environmental condition.

Map ID# 14: The facility located at 5801 Atlantic Avenue in the southeast corner of the west block was historically used as a gasoline station and auto repair shop. This facility had a release of gasoline that impacted soil and groundwater in the site vicinity. The site is a closed LUST case with the RWQCB however, based on a Phase II site investigation conducted by SCS Engineers and detailed in a report dated October 28, 2005, residual soil contamination including TPH as diesel and lead concentrations were reported. The known presence of contaminated soil represents a recognized environmental condition in connection with the release.

Map ID# 16: The facility located at 5885 Atlantic Avenue (interpreted to be at Map ID#16- 5887 Atlantic Avenue) and known as "Paul Beyer" was listed on the Historical Auto Station database searched by EDR. The TEM Phase I report dated December 17, 2004 noted that during the site reconnaissance a series of unidentified pipes along the southern exterior wall of the building were observed. The origin and use of these pipes were not determined. Although in all historic site use research conducted for this facility there is no mention of a gasoline service station or visual evidence of its presence at this facility, the listing and the unknown pipes represent a potential recognized environmental condition.

Map ID# 18: During the Rincon site reconnaissance two former boring locations marked B8 and B9 were observed in the southern parking lot of the building located at 5869 Atlantic Avenue. These borings are likely from an unknown subsurface assessment conducted at the site. The information and data were not conveyed to Rincon. The reason for the assessment is unknown and therefore this represents a potential recognized environmental condition.

Map ID# 21: TEM prepared a Phase I ESA report dated December 17, 2004 which indicated that the site consisted of retail stores, apartment residences, and an apparent

garage. TEM reported that a pipe was protruding from the ground in front of the 5843B Atlantic Avenue address. The origin and use of the pipe was not determined. The site building and surrounding sidewalks have subsequently been demolished. There was no indication that a UST or other piping or evidence of a release was found during demolition. During the site reconnaissance Rincon personnel did not observe the pipe. Therefore the reported pipe that has been removed is considered de minimis.

Map ID# 22: Review of the historic city directory listings indicated that in 1991 a company known as Adventure Printing occupied the 5835 Atlantic Avenue site. Printing operations have the potential to release contaminants to the subsurface. However, there are no reported releases and the building has been demolished and no impacted soil was reported. The former printing operations are therefore considered de minimis.

Map ID# 24- The facility located at 5823 Atlantic Avenue was listed on the EDR Historic Dry Cleaners database and was identified as NLB Cleaners in the 1952 city directories searched as a part of this research effort. Dry cleaners have the potential for a release of VOCs to the subsurface soil and groundwater. Although no releases were reported, the potential exists for a release from this facility and therefore it represents a potential recognized environmental condition.

Map ID# 31: The facility located at 5800 Atlantic Avenue had a historic gasoline service station at the site from 1969 to 1981. A release was reported which impacted soil and groundwater in the vicinity of the site. Remediation was conducted and case closure was granted in July of 1996. However, based on sampling (CB-1 through CB-5) conducted by Environmental Science & Engineering, Inc. (ESE) concentrations of petroleum hydrocarbons and BTEX were identified and remain in the soil beneath the site. Based on the known concentrations of gasoline and BTEX present in the soil, this site represents a recognized environmental condition.

Map ID# 44: During the site reconnaissance Rincon observed stained asphalt to the north of the site building in the vicinity of a parking area. The releases appeared to be oil from automobiles and limited to the asphalt areas. The observed staining is considered de minimis.

Five sets of pole-mounted electrical transformers were observed in the middle of both blocks trending north to south. The soil beneath the electrical transformers was not stained and there was no indication of a release. Thus, the electrical transformers are considered de minimis.

The adjacent 76 gasoline service station (5740 Atlantic Avenue) to the south of the eastern block has an open LUST release case with the RWQCB. Assessment and remediation work are currently being conducted. The northern extent of the contamination plume has not been fully assessed and it may impact the subject site. This offsite facility represents a recognized environmental condition.

The EDR report indicated that the adjacent property to the west (495 South Street) of the west block was formerly known as Shipley's Flying A Service Station. This facility was listed on the EDR Historical Auto Stations database searched by EDR. No known releases are reported, however, gasoline service stations commonly release gasoline into



surrounding soil and groundwater. This EDR Historical Auto Station represents a potential recognized environmental condition.

The EDR database report indicated that the adjacent facility (to the southwest of the west block at 494 South Street) is a LUST release site. The site is known as the South Street Junior Market and a release of gasoline impacted the soil and groundwater in the vicinity of this facility. The case was closed on July 25, 1996. Due to the proximity to the subject site the facility represents a potential recognized environmental condition.

## **CONCLUSIONS**

Rincon has performed a Phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-05 for the property located south of East 59<sup>th</sup> Street, west of Lime Avenue, North of East South Street and east of Linden Avenue in the City of Long Beach, California. This assessment has revealed evidence of four RECs at the site as listed below:

- Map ID# 1-7 and 10: The soil and concrete stockpiles in the northwest portion of the western block are reportedly from road maintenance conducted by the City. Since the source location of the soil is unknown the soil could potentially be impacted with contaminants.
- Map ID# 14: The facility located at 5801 Atlantic Avenue in the southeast corner of the west block was historically used as a gasoline station and auto repair shop. The site is a closed LUST case and has known residual soil contamination including TPH as diesel and oil and lead above regulatory thresholds.
- Map ID# 31: The facility located at 5800 Atlantic Avenue had a historic gasoline service station at the site from 1969 to 1981. A release was reported which impacted soil and groundwater. Analytical data indicates that there are low levels of residual gasoline in the soil beneath the site.
- The south adjacent 76 Service Station (5740 Atlantic Avenue) with an open LUST release case.

This assessment has also revealed evidence of six potential RECs as listed below:

- Map ID# 13: The facility located at 501 E. South Street in the southwest corner of the west block was historically used for sign painting and as an automotive repair facility.
- Map ID# 16: The facility located at 5885 Atlantic Avenue (interpreted to be at Map ID# 16) and known as “Paul Beyer” was listed on the Historical Auto Station database searched by EDR. A series of unidentified pipes were observed by TEM in 2004 along the southern exterior wall of the building. The origin and use of these pipes were not determined.
- Map ID# 18- Two former boring locations (marked B8 and B9) were observed in the south parking lot of 5869 Atlantic Avenue site building. The borings are from an unknown subsurface investigation which was not conveyed to Rincon.

- Map ID# 24- The facility located at 5823 Atlantic Avenue was listed on the EDR Historic Dry Cleaners database and was identified as NLB Cleaners which was at the site in 1952.
- The west adjacent former Shipley's Flying A Service station (495 South Street) was listed on the EDR Historical Auto Stations database searched by EDR.
- The southwest adjacent facility known as the South Street Junior Market (494 South Street) had a LUST release case.

### **RECOMMENDATIONS**

To evaluate the potential site impacts associated with the four RECs mentioned above, we recommend the following:

- Map ID#s 1-7 and 10: The observed soil and concrete stockpiles in the northwest portion of the west block of the site are reportedly from roadwork conducted by the City in the vicinity of the site. The exact source location of the excavated soil is unknown. The client may wish to collect soil samples from each stockpile and analyze the samples for a variety of constituents. This would help characterize the stockpiles as impacted or not and will aid in coordinating proper disposal.
- Map ID# 14: The facility located at 5801 Atlantic Avenue in the southeast corner of the west block was historically used as a gasoline station and auto repair shop. The site is a closed LUST case and has known residual soil contamination including TPH as diesel and oil and lead above regulatory thresholds. The client may wish to further identify the concentrations of petroleum hydrocarbons and lead in soil and to delineate the extent of impacted soil at the former gasoline service station site prior to onsite redevelopment. Under the direction of the regulatory agencies, contaminated soil should be removed and disposed at an appropriately licensed facility.
- Map ID# 31: The facility located at 5800 Atlantic Avenue had a historic gasoline service station at the site from 1969 to 1981. A release was reported which impacted soil and groundwater. Although the case is closed with the RWQCB, residual TPH and BTEX contamination exist in the subsurface soil based on confirmation borings advanced by ESE. The client may wish to further identify the concentrations of petroleum hydrocarbons and BTEX to delineate the extent of impacted soil at the former gasoline service station site prior to onsite redevelopment. In addition, the client may wish to consider conducting a soil vapor survey to identify the potential health risks to future occupants. Additional sampling and analysis will allow development of appropriate remediation and disposal strategies (if necessary).
- Adjacent 76 Station: The south adjacent 76 gasoline service station (5740 Atlantic Avenue) has an open LUST release case. The client may wish to evaluate if concentrations of petroleum hydrocarbons from this facility are impacting the subject property to the north. Conducting groundwater

sampling along the south site boundary of the east block would help determine if onsite groundwater beneath the subject property is impacted from an offsite source.

To evaluate the potential site impacts associated with the potential six RECs mentioned above, we recommend the following:

- Map ID# 13: The facility located at 501 E. South Street in the southwest corner of the west block was historically used for sign painting and as an automotive repair facility. The client may wish to conduct a geophysical survey to possibly locate an underground storage tank. In addition, the client may wish to conduct boring and soil sampling activities beneath the former building to assess the possible presence of TPH or VOC impacted soil at the site.
- Map ID# 16: The facility located at 5885 Atlantic Avenue (interpreted to be at Map ID# 16) and known as “Paul Beyer” was listed on the EDR Historical Auto Station database searched by EDR. Further, the TEM Phase I report dated December 17, 2004 noted that during the site reconnaissance a series of unidentified pipes along the southern exterior wall of the building were observed. The origin and use of these pipes were not determined. No known releases have been reported to regulatory agencies and it appears that no assessment work has been conducted at this facility. The client may wish to conduct a geophysical survey to possibly locate an underground storage tank associated with the possible former gasoline service station. In addition, the client may wish to conduct boring and soil sampling activities at the site to assess the possible presence of TPH or VOC impacted soil at the site.
- Map ID # 18- Two former boring locations (marked B8 and B9) were observed in the south parking lot of 5869 Atlantic Avenue site building. The borings are from an unknown subsurface investigation which was not conveyed to Rincon. The Long Beach Redevelopment Agency should request all analytical data from all previous site owners to evaluate whether the subsurface was found to be impacted based on the previous assessment work conducted at the site. In the absence of receipt of the analytical data, the client may wish to conduct additional boring and soil sampling activities in the vicinity of the borings to assess the site.
- Map ID# 24- The facility located at 5823 Atlantic Avenue was listed on the EDR Historic Dry Cleaners database and was identified as NLB Cleaners which was at the site in 1952. To evaluate a potential release, the client may wish to conduct soil sampling to assess the possible presence of VOCs in the soil beneath the former potential dry cleaning facility.
- To evaluate if the adjacent former Shipley’s Flying A Service station (495 South Street) to the west of the site has had a release that impacts the subject site and to evaluate if the release from the South Street Market site (494 South Street) to the southwest has impacted the subject site, the client may wish to

conduct sampling along the west block property boundaries to the south and west.

### **DEVIATIONS**

Deviations from ASTM Practice E 1527-05 encountered during the completion of this Phase I ESA are as follows:

Data gaps of greater than 5 years were identified for the site in the historical records reviewed:

- After 1902, several data gaps of greater than 5 years were identified for the site in the historical records reviewed: from 1902 to 1928, from 1928 to 1938, from 1957 to 1963, from 1981 to 1989, and from 1994 to 2000. The various site uses appears consistent between the data gaps listed.

### **REFERENCES**

The following published reference materials were used in preparation of this Phase I ESA:

Environmental database: Environmental Data Resources (EDR) report dated March 17, 2008.

Geology: Based on information from the GeoTracker website maintained by the RWQCB and contained in the *Additional Site Assessment Report*, dated September 21, 2007 prepared by Delta Consultants for the south adjacent 76 gasoline service station.

Groundwater: Based on information from the GeoTracker website maintained by the RWQCB and contained in the TRC groundwater report for the south adjacent 76 gasoline service station.

Topography: USGS topographic map, Long Beach Quadrangle (1978, photorevised 1981).

Oil and gas records: Division of Oil and Gas District W1-5 Oil and Gas Map (June 29, 2006) DOG website reviewed March 18, 2008.

Aerial photographs: Photos provided by EDR, March 18, 2008.

Fire insurance maps: Maps provided by EDR, March 18, 2008.

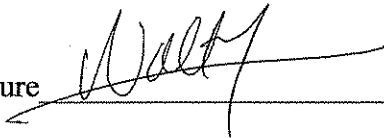
City directory listings: Listings provided by EDR, March 17, 2008.

Historic topographic maps: Maps provided by EDR, March 18, 2008.

**SIGNATURE OF ENVIRONMENTAL PROFESSIONAL**

The qualified environmental professional that is responsible for preparing the report is Walt Hamann. His qualifications are summarized in the following section.

“I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

Signature 

Walt Hamann, PG, CEG, CHG, REA II  
Name

Date 6-8-09

Vice President  
Title

## QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The environmental professionals responsible for conducting this Phase I ESA and preparing the report include Stephanie Vasconcellos and Walt Hamann. Their qualifications are summarized below.

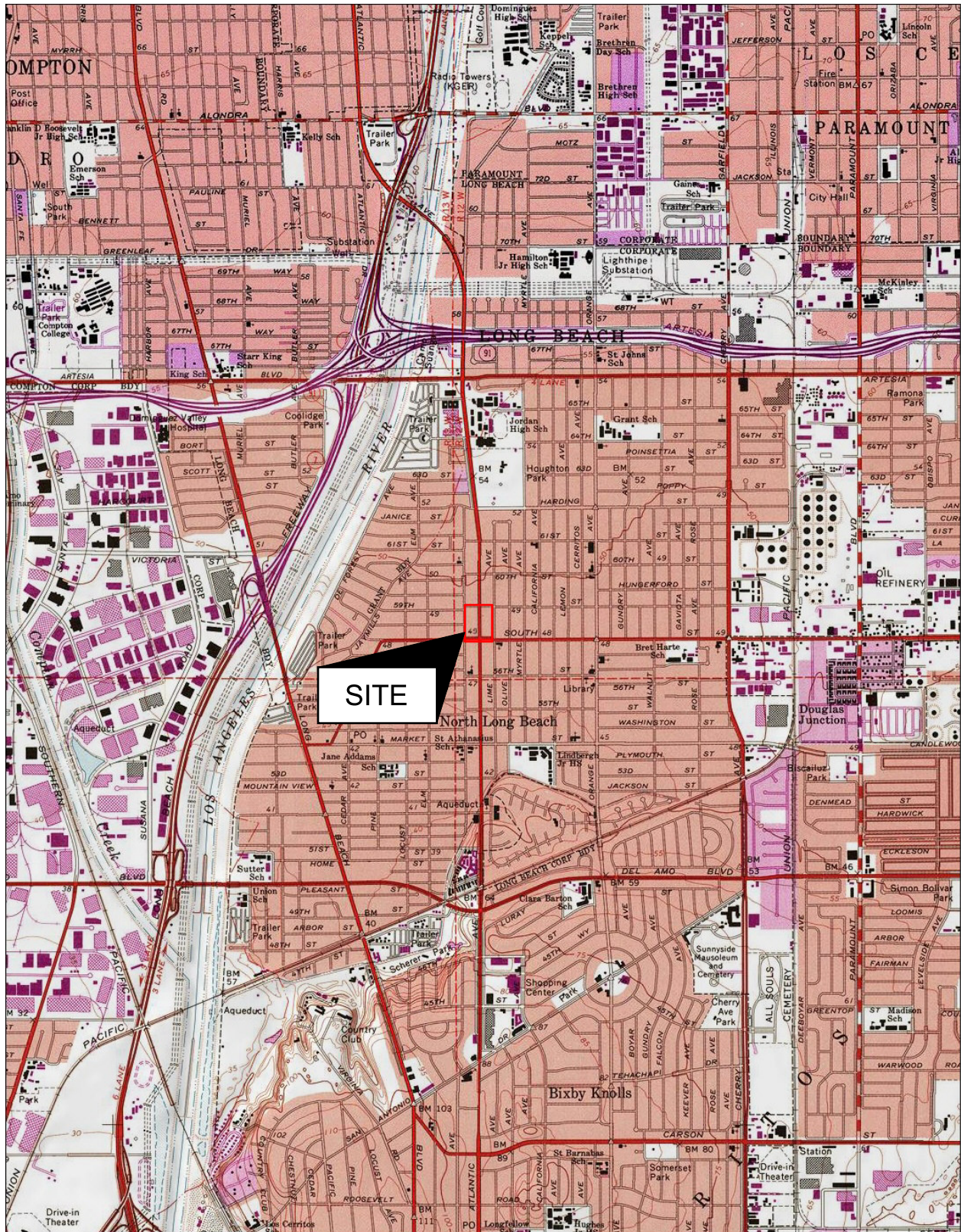
Environmental Professional Qualifications	2.1.1 (2) (i) - Professional Engineer or Professional Geologist License or Registration, and 3 years of full-time relevant experience	2.1.1 (2) (ii) - Licensed or certified by the Federal Government, State, Tribe, or U.S. Territory to perform environmental inquiries	2.1.1 (2) (iii) – Baccalaureate or Higher Degree from and accredited institution of higher education in a discipline of engineering or science and the equivalent of 5 years of full-time relevant experience	2.1.1 (2) (iv) – Equivalent of 10 years of full-time relevant experience
Walt Hamann	PG	REA II	BA Geology MS Geology	20 years exp.
Stephanie Vasconcellos	PG	REA I	BS Geology	18 years exp.

**Walt Hamann, PG, CEG, CHG, REA II**, is a Principal and Senior Geologist with Rincon Consultants. He holds a Bachelor of Arts degree in geology from the University of California, Santa Barbara and a Master of Science degree in geology from the University of California, Los Angeles. He has over 20 years of experience conducting assessment and remediation projects and has prepared or overseen the preparation of hundreds of Phase I and Phase II Environmental Site Assessments throughout California. Mr. Hamann is a Professional Geologist (#4742), Certified Engineering Geologist (#1635), Certified Hydrogeologist (#208) and Registered Environmental Assessor II (#20063) with the State of California.

**Stephanie Vasconcellos, PG, REA I**. Ms. Vasconcellos is a Senior Geologist with Rincon Consultants and works out of our Carlsbad office. She holds a Bachelor of Science degree in geology from California State University Northridge. She has over 18 years of experience conducting research, assessment and remediation projects. Ms. Vasconcellos is a Professional Geologist (#7691) and Registered Environmental Assessor I (#06115) in the State of California, and a Certified Environmental Manager (#1906) in the State of Nevada.



Phase I Environmental Site Assessment  
 North Village Center Redevelopment Project EIR, California



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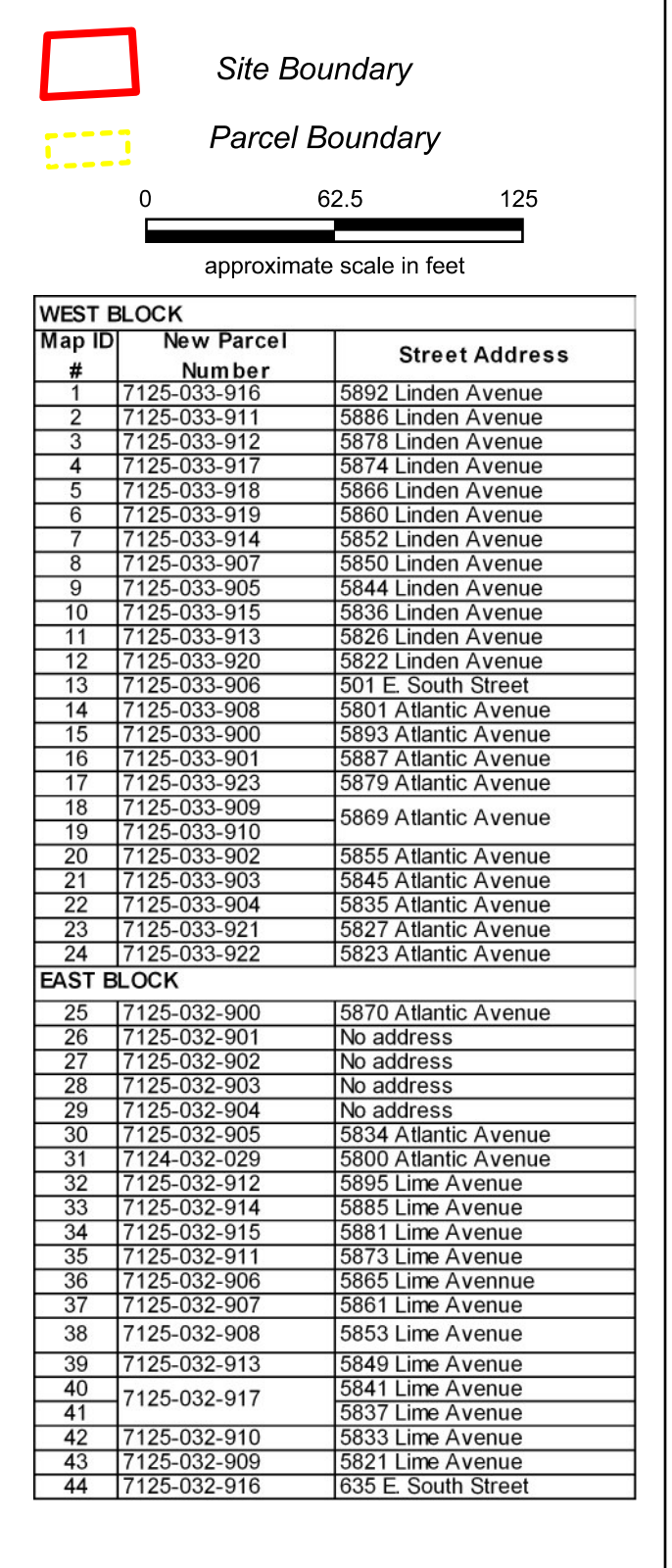
Vicinity Map

Figure 1





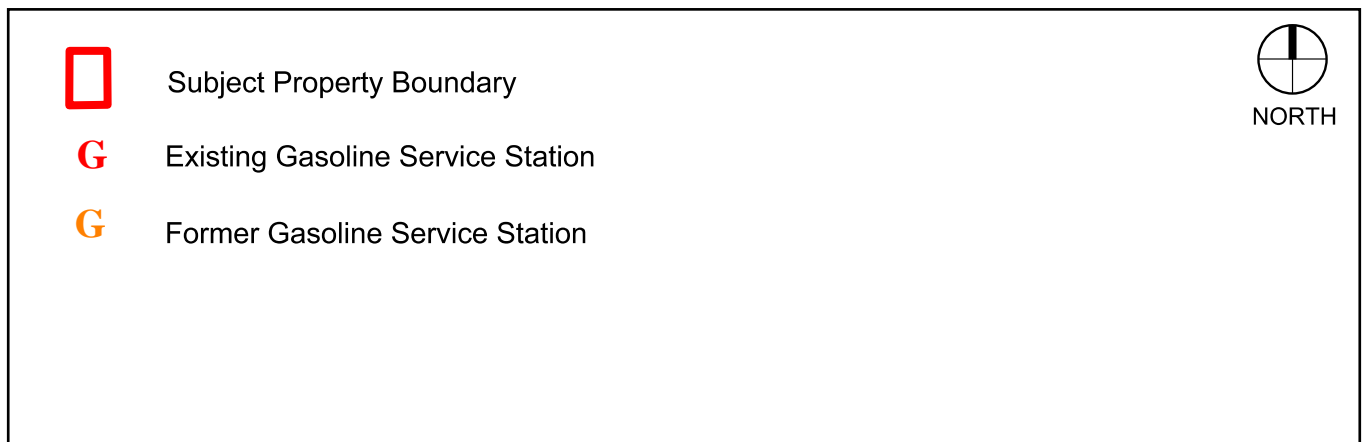
Source: © 2007 Microsoft Corporation © 2007 Pictometry International Corporation



Site Map

Figure 2





Adjacent Land Use Map

Figure 3





Photograph 1: View of northwest portion of the eastern block looking across Atlantic Avenue to the southeast with the furniture store (5870 Atlantic Ave.) in the foreground and the church building further to the south.



Photograph 2: View of the southwest portion of the eastern block looking to the northeast with AutoZone (5800 Atlantic Ave.) and the vacant Front Door Theater (5834 Atlantic Ave.) to the right.



Photograph 3: View of the eastern block looking from the southeast corner to the northwest with the vacant land and the church in the foreground and the furniture store in the background.



Photograph 4: View of the vacant building (635 E. South Street) in the southeast corner of the eastern block.

## Site Photographs







Photograph 5: View of northeast portion of the western block looking across Atlantic Avenue to the southwest with the vacant building (5869-5879 Atlantic Ave.) in the foreground.



Photograph 6: View of the northeast portion of the western block looking to the southwest with a portion of the 5869-5879 Atlantic Ave. building and the construction trailer visible.



Photograph 7: View of the center portion of the western block looking to the southwest.



Photograph 8: View of the center portion of the western block looking to the north.

## Site Photographs

