

APPENDIX B

LBNL Parking Supply and Demand Memorandum

MEMORANDUM

Date: September 24, 2007

To: Laura Chen, LBNL
Susan Sakaki, EnviroSystems Group

From: Sam Tabibnia and Jamie Henson

Subject: LBNL Parking Supply and Demand

WC07-2488

This memorandum summarizes the results of a parking supply and demand study at the Lawrence Berkeley National Laboratory (LBNL) campus conducted by Fehr & Peers in September 2007. As part of the study, Fehr & Peers verified the number and designation of available parking stalls and observed parking demand during mid-morning and afternoon periods. Parking supply and demand are discussed in further detail below.

Parking Supply

An electronic file showing the location and designation of all parking stalls at LBNL was provided by LBNL staff. Based on a site visit on September 12, 2007, we verified and noted the changes in the location and designation of parking stalls. Most parking stalls are provided in small lots adjacent to individual buildings. There is also a number of larger lots and parking along on-site roadways. Figure 1 shows the location of parking facilities and approximate number of stalls at each facility. Table 1 shows the number of stalls by designation at each parking facility.

A variety of parking designations exist for employees and regular visitors at the LBNL site. They are:

- Orange Circle – Reserved for Directors (31 stalls)
- Blue Triangle – Reserved for Senior Scientists (333 stalls)
- Government Vehicles (262 stalls)
- General Use (1,468 stalls)
- Disabled (41 stalls)
- Time Limited (17 stalls)
- Visitor (12 stalls)

There are also areas reserved for motorcycle parking and other areas are designated as loading zones. Additionally, some stalls are reserved for specific individuals.

Due to construction, parking facilities were not available in:

- Lot Z – Above the Building 71 Complex

Parking capacity was reduced due to construction in:

- Lot N3 – Along McMillan Road
- Lot T2 – Adjacent to Building 62
- Lot U4 – Near Building 85

About 130 parking stalls were not available due to construction.

Currently, LBNL provides 2,164 parking stalls. This includes orange circle, blue triangle, government vehicle, general, disabled, visitor and timed parking stalls. It does not include motorcycle parking, loading zones, or parking stalls not available due to construction. If parking stalls unavailable due to construction would be available in their current configuration, a total of 2,294 parking stalls would be available, consistent with the working estimate of 2,300 stalls used by LBNL.

Parking Demand

The occupancy of each parking stall was recorded both in the morning peak period and in the afternoon peak period on Wednesday, September 12, 2007. The morning occupancy survey was started at 10:45 AM and ended at approximately noon. The afternoon occupancy survey started at 2:00 PM and ended at approximately 3:15 PM.

Overall, about 80 percent, or 1,722 stalls were occupied in the morning peak period. In the afternoon peak, 1,757 stalls or 81 percent were occupied. In general, parking lots were more full in the central area of the site and less full in the more remote locations of the site. Figures 2 and 3 show the morning and afternoon parking occupancy by facility, respectively. Tables 2 and 3 show the morning and afternoon parking demand by facility and designation, respectively.

Please contact us with questions or comments.

Attachments:

Table 1 – Parking Supply By Facility and Designation

Table 2 – Mid-Morning Parking Demand and Occupancy

Table 3 - Afternoon Parking Demand and Occupancy

Figure 1 - LBNL Parking Inventory

Figure 2 – Morning (11:30 AM) Parking Occupancy

Figure 3 – Afternoon (2:30 PM) Parking Occupancy

**Table 1
Parking Supply By Facility and Designation**

Parking Facility	Unavailable Due To Construction	Designation							Total ¹
		Orange Circle	Blue Triangle	Government Vehicle	General	Disabled	Timed	Visitor	
A		1		4		1		9	15
AL1				14	54	1	2		71
B			14		35				49
C		5	81	23		5	2		116
CH1					16				16
CH2				1	78	1			80
D					181				181
E			10	7	68				85
F					29				29
G1			16	4		6			26
G2			9	9					18
G3			25	4					29
GL1					28				28
H1		13	15			1	1		30
H2		2	29	13		3			47
I				2	81	1			84
K1			78	2	67	2	2		151
K2		3	8	6	41	2			60
L				9	27	4			40
LR1					20				20
LR2					18				18
M1			8		11				19
M2				7	40				47
MM1				8	6				14
N1				1	29		1		31
N3	16	1	7	10	108	2			128
N4				19	49	1			69
P				48	18	2		2	70
Q			10	33	61	2	1	1	108
R			1	8	44	1	6		60
S				1	7	2			10
T1		1	5	4		2	1		13
T2	31			5	42				47
U1		1	2	2	46	1			52
U2		2		1		1			4
U3			5	1	21				27
U4	17	1		1	9				11
U5					40				40
V					17				17
W				6	42				48
X			6	6	40				52
Y		1	4	3	95		1		104
Z	66								0
Total	130	31	333	262	1,468	41	17	12	2,164

Notes:

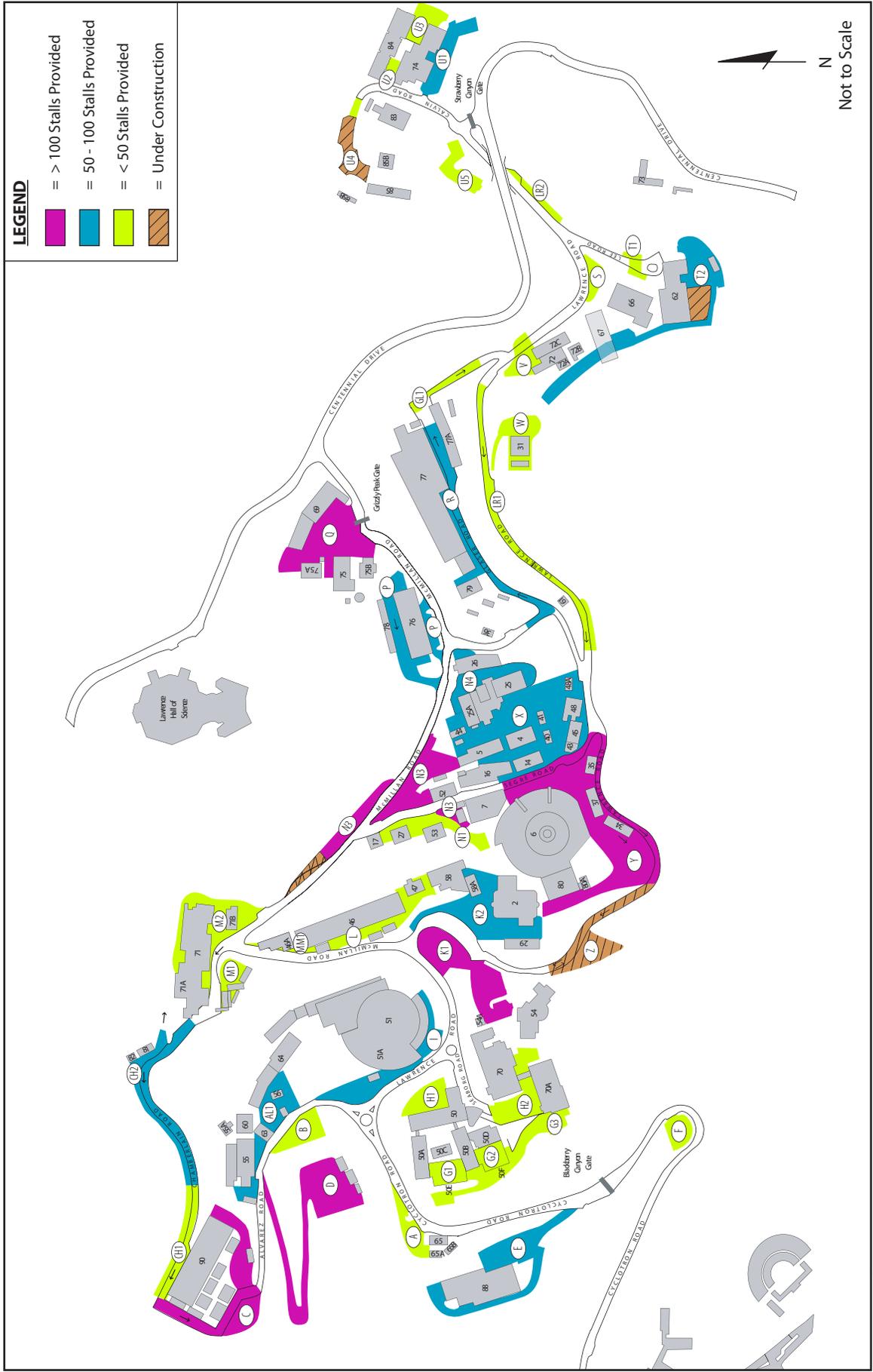
1. Totals do not include stalls unavailable due to construction

**Table 2
Mid-Morning Parking Demand and Occupancy**

Parking Facility	Designation							Total	Occupancy
	Orange Circle	Blue Triangle	Government Vehicle	General	Disabled	Timed	Visitor		
A	1		2		1		5	9	60%
AL1			13	47	1	2		63	89%
B		14		35				49	100%
C	4	73	12		3	2		94	81%
CH1				12				12	75%
CH2				65				65	81%
D				98				98	54%
E		8	5	41				54	64%
F				28				28	97%
G1		14	4		6			24	92%
G2		9	7					16	89%
G3		22	4					26	90%
GL1				9				9	32%
H1	7	13						20	67%
H2	1	27	8		2			38	81%
I			2	74	1			77	92%
K1		78	2	67	1	2		150	99%
K2	3	5	6	40	2			56	93%
L			5	25	4			34	85%
LR1				7				7	35%
LR2				18				18	100%
M1		7		11				18	95%
M2			5	29				34	72%
MM1			6	5				11	79%
N1			1	29		1		31	100%
N3	1	7	9	102	2			121	95%
N4			12	38	1			51	74%
P			30	11	2		2	45	64%
Q		8	28	60	2	1	1	100	93%
R			4	34	1	2		41	68%
S			1	3	1			5	50%
T1	1	5	3		2			11	85%
T2			5	37				42	89%
U1	1	2	2	40				45	87%
U2			1					1	25%
U3		4	1	21				26	96%
U4	1		1	9				11	100%
U5				26				26	65%
V				17				17	100%
W			3	14				17	35%
X		6	4	36				46	88%
Y	1	3	2	69		1		76	73%
Z								0	
Total	21	305	188	1,157	32	11	8	1,722	80%
Occupancy	68%	92%	72%	79%	78%	65%	67%	80%	

**Table 3
Afternoon Parking Demand and Occupancy**

Parking Facility	Designation							Total	Occupancy
	Orange Circle	Blue Triangle	Government Vehicle	General	Disabled	Timed	Visitor		
A	1		3		1		5	10	67%
AL1			12	45	1	2		60	85%
B		14		33				47	96%
C	3	74	16		3	2		98	84%
CH1				16				16	100%
CH2				66	1			67	84%
D				109				109	60%
E		9	6	44				59	69%
F				29				29	100%
G1		15	3		6			24	92%
G2		9	7					16	89%
G3		20	4					24	83%
GL1				5				5	18%
H1	9	12			1	1		23	77%
H2	2	26	11		3			42	89%
I			2	75	1			78	93%
K1		77	2	62	2	2		145	96%
K2	3	6	6	40	1			56	93%
L			6	25	4			35	88%
LR1				8				8	40%
LR2				18				18	100%
M1		8		11				19	100%
M2			6	29				35	74%
MM1			5	4				9	64%
N1			1	23		1		25	81%
N3	1	7	8	103	2			121	95%
N4			10	46				56	81%
P			24	10	2		2	38	54%
Q		6	26	55	2	1	1	91	84%
R			6	34	1	4		45	75%
S			1	3	1			5	50%
T1	1	4	4		2	1		12	92%
T2			5	33				38	81%
U1		2	2	46	1			51	98%
U2	1		1					2	50%
U3		5	1	21				27	100%
U4	1		1	8				10	91%
U5				32				32	80%
V				15				15	88%
W			4	25				29	60%
X		6	6	39				51	98%
Y	1	4	2	69		1		77	74%
Z								0	
Total	23	304	191	1,181	35	15	8	1,757	81%
Occupancy	74%	91%	73%	80%	85%	88%	67%	81%	



LBNL Parking

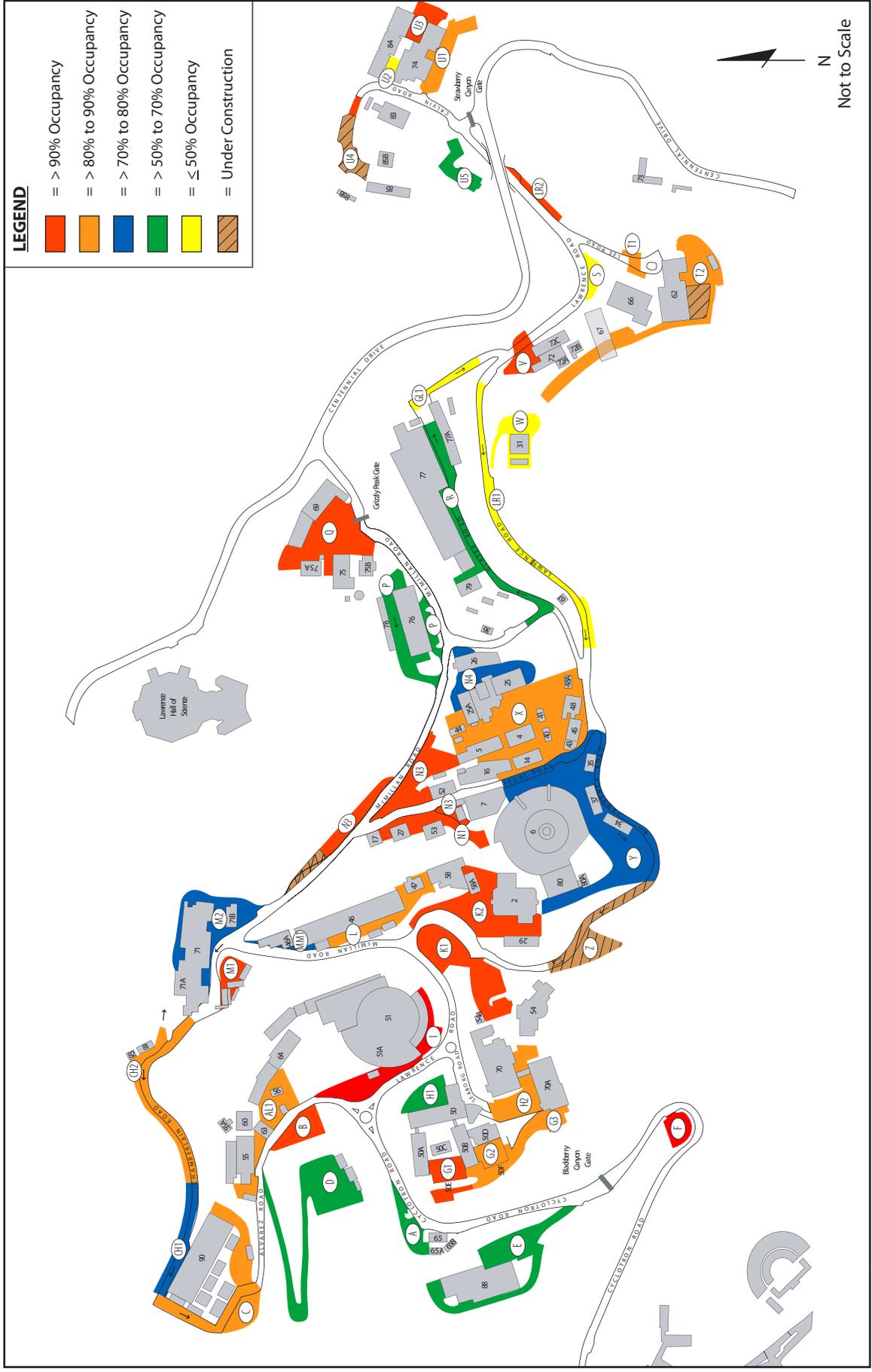
LBNL PARKING INVENTORY

Figure 1



FEHR & PEERS
TRANSPORTATION CONSULTANTS

September 2007
WC07-2488_1



FEHR & PEERS
TRANSPORTATION CONSULTANTS

September 2007
WC07-2488_2

MORNING (11:30 A.M.) PARKING OCCUPANCY

Figure 2

