

APPENDIX A

Siting Evaluation Worksheets



Rank Order	Site #'s		
	Method A	Method B	Method C
1	40	40	40
2	4	4	4
3	18	18	18
4	7	7	7
5	26	107	26
6	38	26	39-A
7	107	38	107
8	39-A	3	39-B
9	9	9	38
10	3	39-A	120/121
11	39-B	39-B	120/121
12	120/121	120/121	9
13	120/121	120/121	3
14	33	33	33
15	34	34	34

Method A = Category Weights Only Method

Site No.		3	4	7	9	18	26	33	34	38	39-A	39-B	40	107	120	121
Category	Weight	Weighted Scores = Category Weight x Average Score of Criteria														
Land Use Compatibility	28	98	126	56	140	98	70	28	28	112	84	84	98	112	28	28
Site Ownership <i>(willing seller/lesor)</i>	20	100	100	100	40	20	100	20	20	80	40	20	100	80	40	40
Site-Specific Natural Resource Impacts <i>(known natural, species, and water resources, site use)</i>	21	63	84	105	95	95	84	84	32	105	95	95	95	84	63	63
Transportation Cost Impacts	18	38	62	72	34	72	67	48	61	38	62	62	72	40	76	76
Transportation Social Impacts	15	23	75	38	15	75	38	23	23	23	68	68	75	38	75	75
Site Acquisition Cost <i>(cost/acre)</i>	8	40	32	32	40	40	40	40	40	40	16	16	40	40	8	8
Site Development Costs <i>(on-site road improvements, soil permeability, electric utility availability)</i>	10	27	30	43	30	50	43	43	27	37	33	37	37	27	30	30
TOTAL WEIGHTED SCORE	120	389	509	446	393	450	442	286	230	435	398	381	516	420	320	320

Note: All scores are rounded to the nearest whole number

Method B = Weighted Average Method

Site No.	3	4	7	9	18	26	33	34	38	39-A	39-B	40	107	120	121	
Category/Criterion	Weight	<i>Weighted Scores = Weighted Average Criteria Score x Category Weight</i>														
Land Use Compatibility	28	110	114	80	140	110	58	28	28	88	35	35	110	136	28	28
Distance to closest incompatible land use	14	4	4	3	5	4	2	1	1	3	1	1	4	5	1	1
Known permitting obstacles	1															
Site Ownership (willing seller/lesor)	20	100	100	100	40	20	100	20	20	80	40	20	100	80	40	40
Site-Specific Natural Resource Impacts (known natural, species, and water resources, site use)	21	63	84	105	95	95	84	84	32	105	95	95	95	84	63	63
Transportation Cost Impacts	18	34	65	62	28	73	60	39	61	34	65	65	73	34	83	83
Distance to closest freeway	13															
Distance from transfer points	8	2	4	3	2	4	3	2	3	2	4	4	4	2	5	5
Road improvements needed (turn lanes, road widening, bridges, road paving to site, traffic signals)	4															
Transportation Social Impacts	15	22	75	35	15	75	35	22	23	22	68	68	75	35	75	75
Distance of surface street haul routes with residential land uses	12	1	5	2	1	5	2	1	2	1	5	5	5	2	5	5
Number of existing immobile populations along surface street haul routes	10															
Site Acquisition Cost (cost/acre)	8	40	32	32	40	40	40	40	40	40	16	16	40	40	8	8
Site Development Costs (on-site road improvements, soil permeability, electric utility availability)	10	27	30	43	30	50	43	43	27	37	33	37	37	27	30	30
TOTAL WEIGHTED SCORE	182	396	499	458	388	462	420	276	230	405	352	335	529	437	327	327

Note: All scores are rounded to the nearest whole number

Method C = Category Weight + Criteria Weight Method

Site No.	3	4	7	9	18	26	33	34	38	39-A	39-B	40	107	120	121	
Category/Criterion	Weight	Weighted Scores = (Category Weight x Average Score) + (Criterion Weight x Criterion Score)														
Land Use Compatibility	28	98	126	56	140	98	70	28	28	112	84	84	98	112	28	28
Distance to closest incompatible land use	14	56	56	42	70	56	28	14	14	42	14	14	56	70	14	14
Known permitting obstacles	1	3	5	1	5	3	3	1	1	5	5	5	3	3	1	1
Site Ownership (willing seller/lessor)	20	100	100	100	40	20	100	20	20	80	40	20	100	80	40	40
Site-Specific Natural Resource Impacts (known natural, species, and water resources, site use)	21	63	84	105	95	95	84	84	32	105	95	95	95	84	63	63
Transportation Cost Impacts	18	38	62	72	34	72	67	48	61	38	62	62	72	40	76	76
Distance to closest freeway	13	26	52	26	13	65	26	26	52	26	52	52	65	13	65	65
Distance from transfer points	8	8	24	40	16	16	40	8	16	8	24	24	16	24	40	40
Road improvements needed (turn lanes, road widening, bridges, road paving to site, traffic signals)	4	14	14	20	10	20	17	20	17	14	14	14	20	10	10	10
Transportation Social Impacts	15	23	75	38	15	75	38	23	23	23	68	68	75	38	75	75
Distance of surface street haul routes with residential land uses	12	12	60	12	12	60	12	12	24	12	60	60	60	12	60	60
Number of existing immobile populations along surface street haul routes	10	20	50	40	10	50	40	20	10	20	40	40	50	40	50	50
Site Acquisition Cost (cost/acre)	8	40	32	32	40	40	40	40	40	40	16	16	40	40	8	8
Site Development Costs (on-site road improvements, soil permeability, electric utility availability)	10	27	30	43	30	50	43	43	27	37	33	37	37	27	30	30
TOTAL WEIGHTED SCORE	182	527	770	627	530	720	608	387	364	561	606	590	786	592	560	560

Note: All scores are rounded to the nearest whole number

APPENDIX A
 FINAL SITING REPORT
 SACRAMENTO GREENCYCLE FACILITY SITING
 Site Scoring Data



Site No.	3	4	7	9	18	26	33	34	38	39-A	39-B	40	107	120	121
Land Use Compatibility	3.50	4.50	2.00	5.00	3.50	2.50	1.00	1.00	4.00	3.00	3.00	3.50	4.00	1.00	1.00
Distance to closest incompatible land use	4.00	4.00	3.00	5.00	4.00	2.00	1.00	1.00	3.00	1.00	1.00	4.00	5.00	1.00	1.00
Known permitting obstacles	3.00	5.00	1.00	5.00	3.00	3.00	1.00	1.00	5.00	5.00	5.00	3.00	3.00	1.00	1.00
Site Ownership	5.00	5.00	5.00	2.00	1.00	5.00	1.00	1.00	4.00	2.00	1.00	5.00	4.00	2.00	2.00
Willing Buy/Lease															
Site-Specific Natural Resources	3.00	4.00	5.00	4.50	4.50	4.00	4.00	1.50	5.00	4.50	4.50	4.50	4.00	3.00	3.00
Known natural resource impacts	5.00	5.00	5.00	3.00	5.00	5.00	5.00	1.00	5.00	3.00	3.00	5.00	5.00	5.00	5.00
Water resource impacts	3.00	5.00	5.00	5.00	3.00	3.00	3.00	1.00	5.00	5.00	5.00	3.00	3.00	1.00	1.00
Species impacts	3.00	5.00	5.00	5.00	5.00	5.00	5.00	1.00	5.00	5.00	5.00	5.00	5.00	1.00	1.00
Site use	1.00	1.00	5.00	5.00	5.00	3.00	3.00	3.00	5.00	5.00	5.00	5.00	3.00	5.00	5.00
Transportation Cost Impacts	2.13	3.47	4.00	1.87	4.00	3.73	2.67	3.40	2.13	3.47	3.47	4.00	2.20	4.20	4.20
Distance to closest freeway	2.00	4.00	2.00	1.00	5.00	2.00	2.00	4.00	2.00	4.00	4.00	5.00	1.00	5.00	5.00
Distance from transfer points	1.00	3.00	5.00	2.00	2.00	5.00	1.00	2.00	1.00	3.00	3.00	2.00	3.00	5.00	5.00
Road Improvements Needed (average of 5 scores below)	3.40	3.40	5.00	2.60	5.00	4.20	5.00	4.20	3.40	3.40	3.40	5.00	2.60	2.60	2.60
turn lanes	1.00	1.00	5.00	1.00	5.00	5.00	5.00	5.00	1.00	1.00	1.00	5.00	5.00	1.00	1.00
road widening	1.00	1.00	5.00	1.00	5.00	1.00	5.00	5.00	1.00	1.00	1.00	5.00	1.00	1.00	1.00
bridges	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	1.00	1.00	1.00
road paving to site	5.00	5.00	5.00	1.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	1.00	5.00	5.00
traffic signals	5.00	5.00	5.00	5.00	5.00	5.00	5.00	1.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Transportation Social Impacts	1.50	5.00	2.50	1.00	5.00	2.50	1.50	1.50	1.50	4.50	4.50	5.00	2.50	5.00	5.00
Distance of surface street haul routes with residential land uses	1.00	5.00	1.00	1.00	5.00	1.00	1.00	2.00	1.00	5.00	5.00	5.00	1.00	5.00	5.00
Number of existing immobile populations along surface street haul routes (w/in 2,000 ft)	2.00	5.00	4.00	1.00	5.00	4.00	2.00	1.00	2.00	4.00	4.00	5.00	4.00	5.00	5.00
Site Acquisition Cost	5.00	4.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00	2.00	2.00	5.00	5.00	1.00	1.00
Acquisition cost per acre															
Site Development Costs	2.67	3.00	4.33	3.00	5.00	4.33	4.33	2.67	3.67	3.33	3.67	3.67	2.67	3.00	3.00
Extent of on-site road improvements needed	1.00	3.00	5.00	3.00	5.00	5.00	3.00	1.00	1.00	3.00	3.00	3.00	1.00	1.00	1.00
Soil permeability	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Electric utility availability (interconnection potential)	2.00	1.00	3.00	1.00	5.00	3.00	5.00	2.00	5.00	2.00	3.00	3.00	2.00	3.00	3.00

APPENDIX A
 FINAL SITING REPORT
 SACRAMENTO GREENCYCLE FACILITY SITING
 Back up Data for Site Scoring



Site No.	3	4	7	9	18	26	33	34	38	39-A	39-B	40	107	120	121	
Land Use Compatibility																
Distance to closest incompatible land use	1.25-2 mi	1.25-2 mi	4,000 ft - 1.25 mi	> 2mi	1.25-2 mi	2,000-4,000 ft	< 2,000 ft	< 2,000 ft	4,000 ft - 1.25 mi	< 2,000 ft	< 2,000 ft	1.25-2 mi	> 2 mi	< 2,000 ft	< 2,000 ft	
Known permitting obstacles	some	none	many	none	some	some	many	many	none	none	none	some	some	many	many	
Site Ownership																
Willing Buy/Lease	yes	yes	yes	no contact	no	yes	no	no	maybe	no contact	no	yes	maybe	no contact	no contact	
Site-Specific Natural Resources																
Known natural resource impacts	low	low	low	med	low	low	low	high	low	med	med	low	low	low	low	
Water resource impacts	med	low	low	low	med	med	med	high	low	low	low	med	med	high	high	
Species impacts	med	low	low	low	low	low	low	high	low	low	low	low	low	high	high	
Site use	low	low	high	high	high	med	med	med	high	high	high	high	med	high	high	
Transportation Cost Impacts																
Distance to closest freeway	14.5 mi	3.4 mi	10.5 mi	25.4 mi	< 1 mi	10.5 mi	12.6 mi	3.0 mi	10.9 mi	3.9 mi	4.6 mi	< 1 mi	22.8 mi	< 1 mi	< 1 mi	
Distance from transfer points	84.2 mi	54.7 mi	39.4 mi	62.6 mi	64 mi	39.4 mi	83.5 mi	65.2 mi	79.4 mi	54.9 mi	57.4 mi	62.9 mi	58.8 mi	34.1 mi	35.4 mi	
Road Improvements Needed (includes 5 sub-criteria below)																
turn lanes	yes	yes	no	yes	no	no	no	no	yes	yes	yes	no	no	yes	yes	
road widening	yes	yes	no	yes	no	yes	no	no	yes	yes	yes	no	yes	yes	yes	
bridges	no	no	no	no	no	no	no	no	no	no	no	no	yes	yes	yes	
road paving to site	no	no	no	yes	no	no	no	no	no	no	no	no	yes	no	no	
traffic signals	no	no	no	no	no	no	no	yes	no	no	no	no	no	no	no	
Transportation Social Impacts																
Distance of surface street haul routes with residential land uses	> 3 mi	0.001 mi	> 3 mi	> 3 mi	0 mi	> 3 mi	> 3 mi	2.6 mi	> 3 mi	0.001 mi	0.001 mi	0 mi	> 3 mi	0 mi	0 mi	
Number of existing immobile populations along surface street haul routes (w/in 2,000 ft)	7	5	4	1	5	4	2	1	2	4	4	5	4	5	5	
Site Acquisition Cost																
Acquisition cost per acre	\$ 3,000	\$ 7,500	\$ 7,500	\$ 2,500	\$ 4,000	\$ 2,000	\$ 3,000	\$ 4,000	\$ 3,000	\$ 25,000	\$ 25,000	\$ 4,000	\$ 2,500	\$ 120,000	\$ 120,000	
Site Development Costs																
Extent of on-site road improvements needed	high	med	low	med	low	low	med	high	high	med	med	med	high	high	high	
Soil permeability	2.1E-07	1.1E-07	1.9E-07	1.7E-07	1.3E-08	9.2E-08	2.8E-07	5.0E-08	9.2E-08	9.2E-08	9.2E-08	3.4E-08	9.2E-08	9.2E-09	9.2E-09	
Electric utility availability (interconnection potential)	bad	very bad	good	very bad	great	good	great	bad	great	bad	good	good	bad	good	good	