

# ORANGE COUNTY BOARD OF COMMISSIONERS

## AGENDA

BOCC Transfer Station Siting Work Session  
March 18, 2008  
**5:30 p.m. – 7:30 p.m.**  
Southern Human Services Center  
Chapel Hill, NC

### **PURPOSE:**

The purpose of the meeting will be to finalize and adopt the exclusionary criteria. The general format and schedule for upcoming transfer station siting public information sessions will be presented for discussion, feedback, and direction. Information regarding technical criteria, community-specific criteria, and weighting factors will also be presented for discussion, feedback, direction, and public comments.

### **AGENDA (Order of Business):**

- 1) Review and Discussion to Finalize Exclusionary Criteria (Exhibit 1, Exhibit 2, and Exhibit 3)
- 2) Adoption of Final Exclusionary Criteria
- 3) Discussion and Approval of Transfer Station Siting Public Information Session Format and Schedule (Exhibit 4)
- 4) Discussion, Feedback and Comment on Technical Criteria, Community-Specific Criteria, and Weighting Factors (Exhibit 5, Exhibit 6, Exhibit 7, and Exhibit 8)
- 5) Public Comment Period (15 Minutes)
- 6) Further Comment and Feedback as desired by the Board to Olver, Inc. and/or County Management

### **ATTACHMENTS FOR RESOURCE/REFERENCE:**

Exhibit 1 – Preliminary Exclusionary Siting Criteria  
Exhibit 2 – Center of Solid Waste Generation - Population  
Exhibit 3 – Center of Solid Waste Generation - Population/Employment  
Exhibit 4 – Transfer Station Siting Public Information Session Overview  
Exhibit 5 – Preliminary Technical Criteria  
Exhibit 6 – Preliminary Community-Specific Criteria  
Exhibit 7 – Flow Schematic  
Exhibit 8 – Example

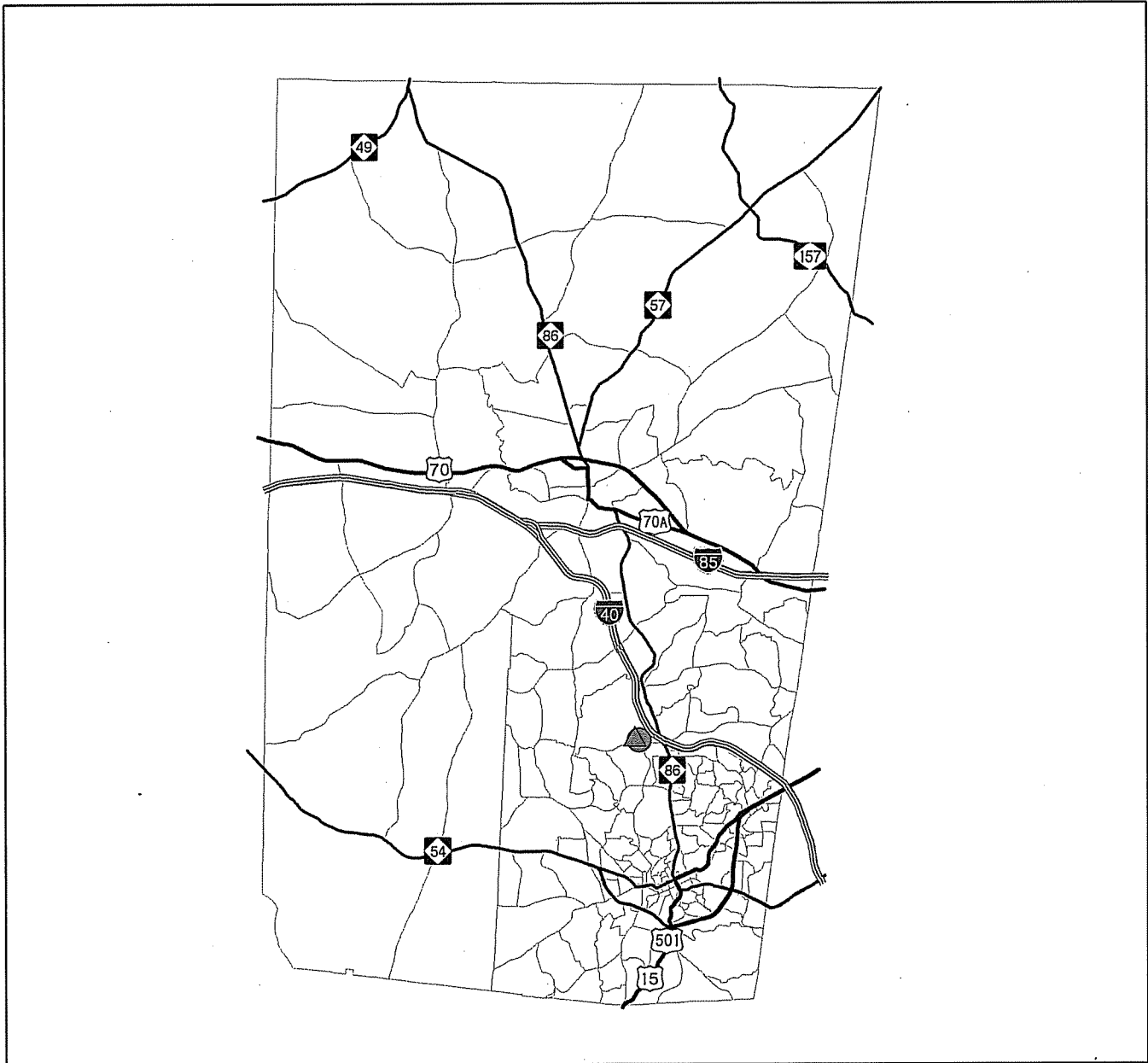
# EXHIBIT 1

## PRELIMINARY EXCLUSIONARY SITING CRITERIA

- A. Site must be located within Orange County.
- B. Wetlands and floodplains
- C. Endangered and protected flora and fauna habitats
- D. Protected sites of historical, archeological, or cultural significance
- E. Sites with majority of area having steep topographic slopes (>15%)
- F. Park preserves
- G. Site cannot be located in a critical watershed
- H. Site must be located within 3 miles of US 15-501, NC 54, NC 86, US 70, NC 57, I-40, or I-85 and within 10 miles of the projected waste generation centroid.
- I. Sites (single parcel or combination of parcels) must be at least 25 acres unless transportation access, existing buffers, and preliminary transfer station site layout demonstrate the adequacy of a smaller site area.

# EXHIBIT 2

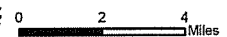
## Center of Solid Waste Generation



- ▲ 2005 Mean Center (weighted by pop and emp)
- 2025 Mean Center (weighted by pop and emp)
- TAZ



1 inch equals 4 miles



Orange County Planning and Inspections Department  
GIS Map Prepared by Brian Carson March 19, 2007

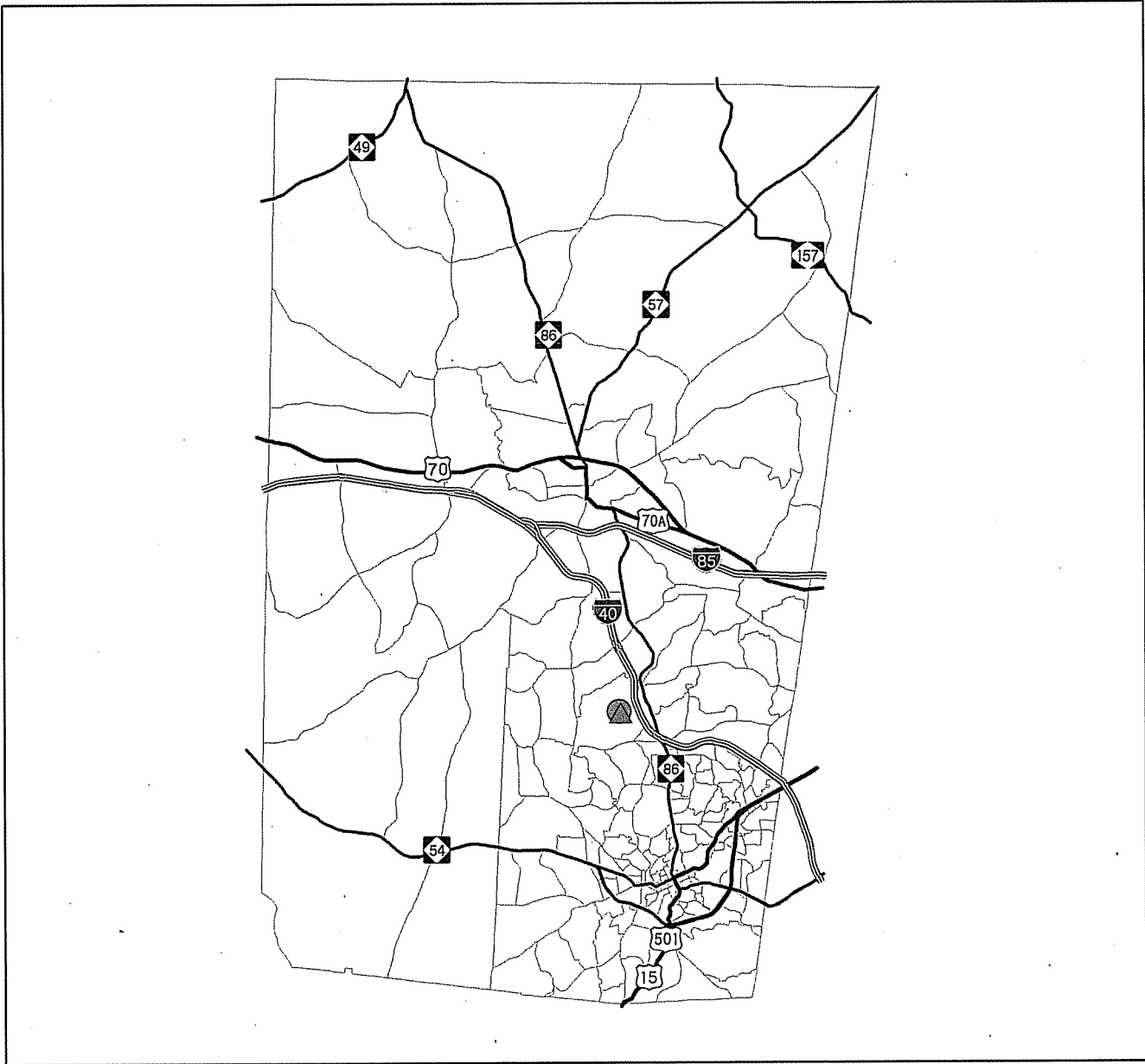
2005 County Estimated Population = 126,642  
2005 County Estimated Employment = 48,824

2025 County Projected Population = 171,738  
2025 County Projected Employment = 102,891

The population and employment data was provided to us by the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC-MPO). The status of the projection numbers is draft.

# EXHIBIT 3

## Center of Solid Waste Generation



- ▲ 2025 Mean Center (weighted by pop)
- 2025 Mean Center (weighted by pop)
- TAZ



1 inch equals 4 miles  
0 2 4 Miles

Orange County Planning and Inspections Department  
GIS Map Prepared by Brian Carson April 24, 2007

2005 County Estimated Population = 126,642

2025 County Projected Population = 171,738

The population data was provided to us by the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC-MPO). The status of the projection numbers is draft.

## EXHIBIT 4

### TRANSFER STATION SITING PROCESS

#### PUBLIC INFORMATION SESSIONS

Transfer station siting public information sessions are tentatively scheduled—pending BOCC approval—for Thursday, April 3, 2008 at 7:00 to 10:00 p.m. in the F. Gordon Battle Courtroom, 106 E. Margaret Lane, in Hillsborough and on Thursday, April 10, 2008 at 7:00 to 10:00 p.m. in the Southern Human Services Center, 2501 Homestead Rd., in Chapel Hill.

The public information sessions will include a presentation describing the function and operation of a solid waste transfer station. The transfer station siting process will also be discussed in detail focusing on the purpose and use of technical and community-specific criteria and weighting factors in the evaluation and final selection of a recommended site.

- Technical Criteria include specific engineering, operation, and transportation parameters that should be considered to assure that sites are feasible from a technical design, environmental, and economic prospective.
- Community-Specific Criteria consider the impacts that the facility will have on the surrounding community.

The primary objective of these public information sessions will be for Olver, Inc. to provide the public at large with information regarding the operation of a transfer station; to provide the public at large with information regarding the site selection process; and to receive broad public input and comment on the preliminary set of site selection criteria and weighting factors, so that the needs and concerns of the residents of Orange County can be integrated into the final decision-making process.

These public information sessions are being conducted by Olver, Inc. on behalf of the BOCC. A summary of session proceedings will be provided to the BOCC and posted to the website being maintained by Olver, Inc. as part of the Orange County Transfer Station siting project.

## EXHIBIT 5

### PRELIMINARY TECHNICAL CRITERIA

- A. Central Location to Collection Routes
- B. Access to Major Transportation Routes
- C. Site Size Requirements
- D. Sufficient Space for Onsite Roadways, Queuing, and Parking
- E. Truck and Traffic Compatibility
- F. Ability for Expansion
- G. Space for Recycling, Composting, and Public Education
- H. Buffer Space
- I. Gently Sloping Topography
- J. Access to Utilities
- K. Zoning Designations and Requirements
- L. Carbon Footprint Impact

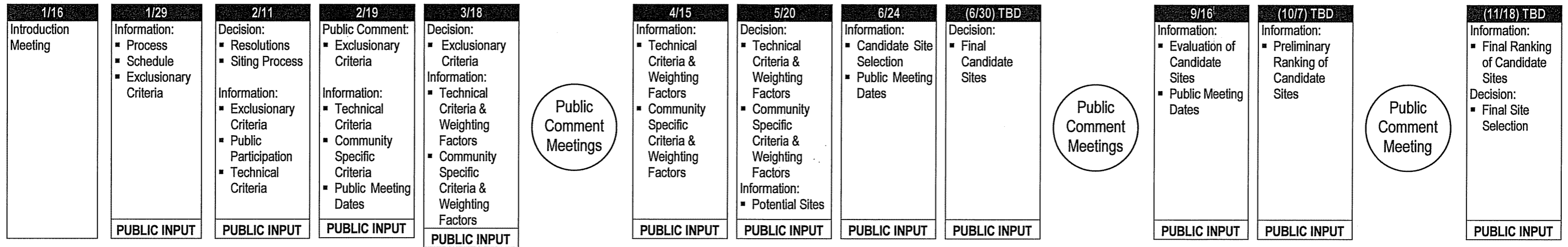
## EXHIBIT 6

### **PRELIMINARY COMMUNITY-SPECIFIC CRITERIA**

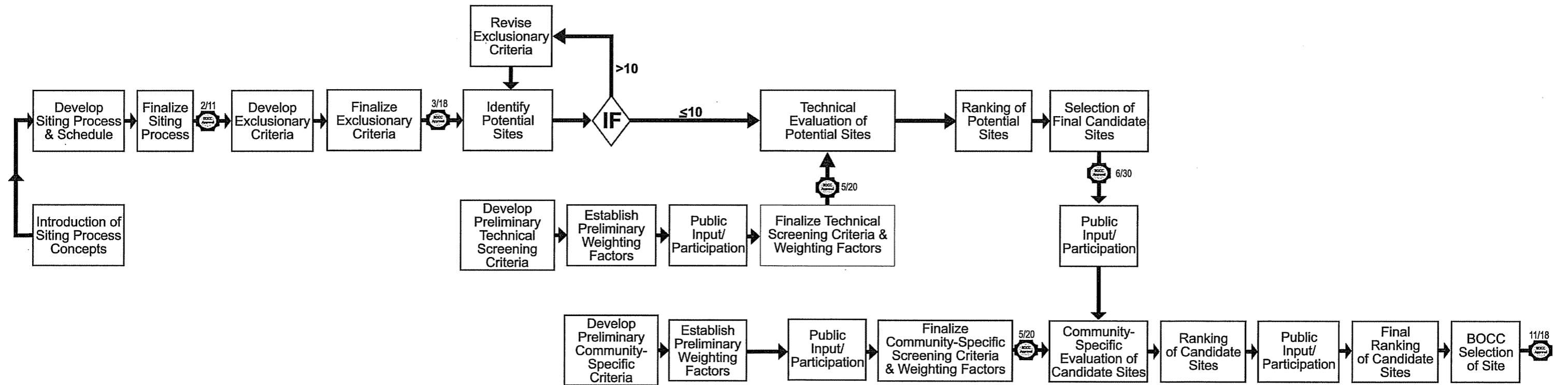
- A. Environmental Justice Considerations
- B. Impact on air Quality
- C. Impact on the Local Infrastructure
- D. Adjacent Land Uses
- E. Proximity to Schools, Churches, Recreation Sites, and Residences
- F. Prevailing Winds
- G. Number of Residences Impacted
- H. Presence of Natural Buffers
- I. Impacts on Existing Businesses
- J. Buffer Zones and Screening Measures
- K. Traffic Compatibility
- L. Impact on Historic or Cultural Features
- M. Impact on Non-protected Neighborhood Character

# EXHIBIT 7

## MEETING TIMELINE



## FLOW SCHEMATIC



Final Transfer Station Siting Process - Flow Schematic & Timeline  
02/11/2008 Revision

**EXAMPLE  
TECHNICAL SITING CRITERIA EVALUATION AND RANKING**

**EXAMPLE 8**

Weighting Factor	Site A	Site B	Site C	Site D	Site E
10	100	55	55	40	70
10	20	40	50	30	10
10	30	50	70	80	90
10	50	10	25	25	40
10	40	50	60	70	100
5	30	10	9	8	7
5	35	40	5	2	3
5	40	45	10	7	6
5	10	20	3	5	6
5	5	10	3	4	5
5	15	50	9	8	7
10	10	20	5	3.5	9

Criteria Rank	Weighted Score
10	100
2	20
3	30
5	50
4	40
6	30
7	35
8	40
2	10
1	5
3	15
1	10

Criteria Rank	Weighted Score
5.5	55
4	40
5	50
7	70
2.5	25
6	60
9	45
1	5
10	50
3	15
9	45
10	50
2	20

Criteria Rank	Weighted Score
5.5	55
4	40
5	50
7	70
2.5	25
6	60
9	45
1	5
10	50
3	15
9	45
10	50
2	20

Criteria Rank	Weighted Score
4	40
3	30
8	80
2.5	25
7	70
8	40
2	10
7	35
5	25
4	20
8	40
3.5	35

Criteria Rank	Weighted Score
7	70
1	10
9	90
4	40
10	100
7	35
3	15
6	30
6	30
5	25
7	35
9	90

Total Score	385	440	485	450	570
Final Ranking	10	9	6	7-8	2

**EXAMPLE**

Note:  
Under this example Sites I, E, G and J would be considered as the "Final Candidate" sites and evaluated with respect to the Community-Specific Evaluation.

**EXAMPLE  
TECHNICAL SITING CRITERIA EVALUATION AND RANKING**

**EXAMPLE 8**

Evaluation Criteria	Weighting Factor
Central location to collection routes	10
Access to major transportation routes	10
Site size requirements	10
Sufficient space for on-site roadways, queuing and parking	10
Truck and traffic compatibility	10
Ability for expansion	5
Space for recycling, composting and public education	5
Buffer space	5
Gently sloping topography	5
Access to utilities	5
Zoning designations and requirements	5
Carbon Footprint Impact	10

Site F	
Criteria Rank	Weighted Score
8	80
6.5	65
4	40
6	60
1	10
5	25
4	20
5	25
7	35
10	50
6	30
6	60

Site G	
Criteria Rank	Weighted Score
9	90
6.5	65
1	10
10	100
2	20
4	20
10	50
1	5
8	40
9	45
5	25
8	80

Site H	
Criteria Rank	Weighted Score
3	30
9	90
2	20
7	70
3	30
3	15
9	45
2	10
9	45
8	40
4	20
3.5	35

Site I	
Criteria Rank	Weighted Score
1.5	15
8	80
10	100
8	80
9	90
2	10
5	25
3	15
10	50
7	35
1	5
10	100

Site J	
Criteria Rank	Weighted Score
1.5	15
10	100
6	60
9	90
8	80
1	5
6	30
4	20
1	5
6	30
2	10
7	70

Total Score

Final Ranking

**EXAMPLE**

Note:  
Under this example Sites I, E, G and J would be considered as the "Final Candidate" sites and evaluated with respect to the Community-Specific Evaluation.