



### Meeting Attendees

- Phil Bresee, Philadelphia Recycling Office
- Michelle Feldman, Keep Philadelphia Beautiful
- Scott McGrath, Philadelphia Streets Department
- Tamika Davis, Philadelphia International Airport
- Benjamin Cromie, Philadelphia International Airport
- Fern Gookin, Revolution Recycling
- Megan Garner, School District of Philadelphia
- Michael Poles, Clean Water Action
- Chuck Raudenbush, Waste Management
- Allison Sands, Recyclebank
- Jack Embick, Embick, LLC
- Mathew Braden, Councilman Dennis O'Brien's Office
- Samantha Wittchen, iSpring Consulting
- Paul Kohl, Philadelphia Water Dept.
- Mike Giuranna, U.S. EPA Region 3
- Maurice Sampson, Niche Recycling, Inc.
- Abby Rambo, South of South Neighborhood Association
- Sal Iadonisi, United States Recycling Inc.
- Laura Cassidy, Philadelphia Prisons
- Kemrey Heinold, Rehrig Pacific Company
- Vivian Van Story, Community Land Trust Corp.
- Jim Osborn, Alternative Resources, Inc.
- Jason Rossano, LevLane Advertising
- Eric Spector, LevLane Advertising

### Discussion Topic 1A: Municipal Solid Waste Management by Sector (Residential)

- Collection and Containers
  - Larger bins (32-gallon) with wheels and lid
    - Positive
      - Reduce litter
      - Increase recycling tonnage
      - Less wet material
    - Negatives
      - Large percentage of City is unable to accommodate a larger container
      - Collection of trash and litter in front yards/street side
      - Greater potential for contamination
  - Multi-size contain system (current size and larger size)
    - Provides residents with options and customization
    - Equitability, education and enforcement issues
  - Material education/messaging on recycling containers (sticker and/or printed)
  - Need for cost benefit analysis of larger 32-gallon container
- Material Stream
  - Discussion regarding separation/removal of glass from single stream
    - Committee recommends no separate collection for glass or other materials
  - Special materials (e-waste) need to be highlighted through Sanitation Convenience Centers and special collection events

- Sanitation Convenience Centers (SCC)
  - Committee was concerned of overall convenience for residents without vehicles
  - Discussed additional “Waste Stations” throughout the city for more convenient drop-off of materials (monthly/quarterly basis)
  - Increase awareness of SCC total network (6) and supporting programs
    - Tire Roundup
    - Fall Leaf Collection
    - Household Hazardous Waste
    - Holiday Recycling
    - E-Cycling
- Education and Outreach
  - Need for increased and consistent community outreach
    - Quantify outreach activities in FY16 for baseline goal setting
  - Leverage Philadelphia School District and religious organizations to reach young and influential audience
  - Leverage “Holidays”
    - America Recycles Day
    - Earth Day
    - Philly Spring Cleanup
  - Greater focus on stream contamination education
  - Need for increased enforcement messaging
  - Identify local companies/organizations with sustainability goals for contribution and partnership opportunities

#### **Discussion Topic 1B: Municipal Solid Waste Management by Sector (Commercial)**

- Universal and Mandatory / Education Outreach
  - Establish a messaging balance between enforcement and partnership
    - Acknowledge challenges but increase enforcement and fines
  - Key partner outreach
    - Chambers, CDCs, Commercial Corridors etc.
  - Better City Ordinance education
    - Commercial businesses and hauler community
  - Zero Waste Zone Challenge/Contests
- Materials
  - Need to address E-Waste in Commercial outreach
  - Identify opportunities to tailor collection processing by business type/material
- Resources
  - Committee suggested funding for Commercial-focused staffing/personnel with PRO
- Other Commercial Topics (Not addressed)
  - C&D Waste
  - Reporting Requirements
  - Hauler Licensing
  - Multi-family Units

#### **Discussion Topic 1C: Municipal Solid Waste Management by Sector (Institutional/Public Space)**

- Colleges and Universities
  - Need for unifying message and consistency across all institutional partners
  - Program, contests and challenges to engage younger audiences
  - Engage with College/University sustainability administrative network
  - Create/supply recycling orientation material

- Public Space
  - Establish Parks and Recreation Recycling Protocol
    - Goal: 100% adoption

### **Discussion Topic 2: Organics**

- Conversation was truncated because of Sub-Committee’s responsibility for POV/Strategy, however the following points were discussed
- Need for quality material
- Opportunities for food and yard waste pilot programs
- Importance of processing (without processing, no need for collection)
- Regional challenge with lack of available facilities and high cost of entry
- Overall resource capacity issues
- Consider a phased approach within the Commercial Sector

### **Discussion Topic 3: Alternative Technologies and Disposal Systems**

- Mixed Waste Processing (MWP)
  - Committee POV: “Dirty MRF” is not recommended for Philadelphia
    - Would only consider MWP as a supplemental/safety net for single stream processing
  - Material quality is an on-going issue with single stream processing
    - Committee recommends the continued use of single stream processing due to established public behavior and education
- Anaerobic Digestions and Gasification
  - Philadelphia Water to provide pilot metrics for Committee consideration
  - Organic Sub-Committee to further inform on these topics

### **Discussion Topic 4: Resources**

- Equipment
  - Ongoing and full investment in program fleet
  - Consider alternative fuel vehicles when replacing Sanitation Division fleet
- Staffing
  - Commercial Recycling Liaison focused on compliance
  - Greater staffing is needed to singularly focus on:
    - Residential, Commercial, Institutional and Enforcement
  - Leverage existing partnerships for program message dissemination
    - SWRAC is key for plan to transition from development to implementation and education
    - Philadelphia School District recycling program could be used for pilot program testing and future education opportunities (organics)
- Cost/Revenue
  - Public education regarding cost/revenue generation by program

### **Discussion Topic 5: Legislative/Policy Approaches**

- Recycling Ordinance
  - Establish clearer landlord recycling requirements (include in lease language?)
  - College/University requirements, including off-campus housing
  - Establish e-waste disposal requirements
  - Increase hauler and commercial compliance efforts
  - Overall increase in enforcement and program compliance efforts
- Single Use Bags
  - Committee supports city-wide ban

- Polystyrene Foam
  - Committee support city-wide ban
- Bottle Deposits
  - Legislation regarding glass collection is being lead on State/National level, not Municipal level
- EPP/Procurement
  - Plastic bottle ban in City buildings
  - Recycled material percentage requirements
  - Early and often collaboration with Procurement and Recycling Office
- Producer Responsibility
  - Engage with producer on end-use responsibilities (mattress disposal)
  - LCA Lifecycle analysis to determine carbon foot print for establishing proper value of recycling materials
    - When establishing proper value, consider embedded energy (BTUs) invested during manufacturing