

# Facilitating Land Conveyance in Brownfields Projects using Innovative GIS and Visualization Techniques, by *Ian A. Webster, Sc.D.* and *Halil Kavak, Ph.D.*

## Task 0: Overall Project Management

- EPA Reporting
- Compliance
- Presentations
- Public Meetings

## Task 1: Community Outreach

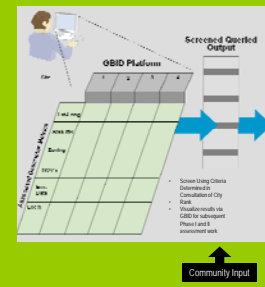
- Annual Community Wide Forum



## Task 2: Brownfields Inventory, Site Categorization Screening and Ranking

BAS and Project Navigator, Ltd. Team Will Make Maximal Cost-Effective Use of City of Rome's Existing Database

- Mine Existing City Databases
  - Electronic
  - Hard Copy
- Mine Online Databases
- Augment Existing Databases
- Add New Relevant Data, As Appropriate



Conceptual Inventory Output  
Our Team Has Already "Played With" City GIS Metrics

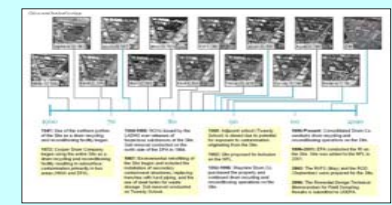


- ### GIS Inventory Outputs
- Candidate Sites for Phase I's
  - Ranked Land Valuation vs. Clean Up Costs
  - Ranking of Degree of Impacts
    - Cost
    - Acreage
    - Volumes
  - Degree and Type of Developer Interest
  - Site Marketing Information (e.g. ICSC Meetings)
  - Location vs Existing Infrastructure

## Task 3: Phase I Site Assessment

Databasing of such information as:

- Aerials
- Historical Use
- Sanborn Maps
- Online Info on Impacts
- ASTM Procedures



Example of Project Management Phase I at Cooper Drum Superfund Site, South Gate, CA

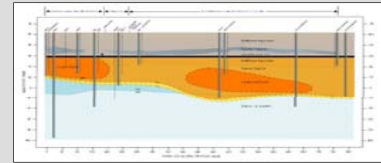
## Final Conclusionary Results and Work Product for City

- Remediation Strategic Plan, based on:
  - Environmental data and
  - Geo-spatial economic information
- Maps, plans, charts, slide presentations for developer interaction
- GIS database of Site information
- Community Presentations

## Task 5: Remediation Planning

- Plan development
- Costs
- Timelines
- Remediation execution opportunities Vs. challenges
- Information to use with developers

## Task 4: Phase II Environmental Site Assessments



Chapin Road Landfill, City of Montebello



**STRATEGIC ENHANCEMENTS FOR SUSTAINABILITY**

**Site Features could include:**

1. Development of a site plan
2. Development of a site map
3. Development of a site layout
4. Development of a site design
5. Development of a site construction plan
6. Development of a site operation plan
7. Development of a site maintenance plan
8. Development of a site decommissioning plan
9. Development of a site closure plan
10. Development of a site reclamation plan
11. Development of a site restoration plan
12. Development of a site remediation plan
13. Development of a site monitoring plan
14. Development of a site reporting plan
15. Development of a site communication plan
16. Development of a site stakeholder engagement plan
17. Development of a site risk management plan

**Water Features could include:**

1. Development of a water management plan
2. Development of a water conservation plan
3. Development of a water recycling plan
4. Development of a water reuse plan
5. Development of a water treatment plan
6. Development of a water distribution plan
7. Development of a water collection plan
8. Development of a water storage plan
9. Development of a water supply plan
10. Development of a water demand plan
11. Development of a water quality plan
12. Development of a water quantity plan
13. Development of a water temperature plan
14. Development of a water chemistry plan
15. Development of a water biology plan
16. Development of a water geology plan
17. Development of a water hydrology plan

**Additional sustainable features could include:**

1. Development of a green building plan
2. Development of a green infrastructure plan
3. Development of a green transportation plan
4. Development of a green energy plan
5. Development of a green water plan
6. Development of a green waste plan
7. Development of a green air plan
8. Development of a green noise plan
9. Development of a green climate plan
10. Development of a green social plan
11. Development of a green economic plan
12. Development of a green cultural plan
13. Development of a green heritage plan
14. Development of a green landscape plan
15. Development of a green urban plan
16. Development of a green rural plan
17. Development of a green coastal plan

Port of Los Angeles Assessment

**Project Navigator, Ltd. has developed a rigorous protocol for the GIS-enabled screening of Brownfield sites. The system allows sites to be prioritized in the queue for reuse.**

[www.ProjectNavigator.com](http://www.ProjectNavigator.com) [www.PNLProjects.com](http://www.PNLProjects.com)

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