

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

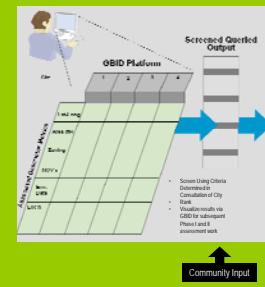


Task 2: Brownfields Inventory, Site Categorization Screening and Ranking

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

Representative Online Searches Around City of Rome Client at 15 and 91 Freeways

- 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

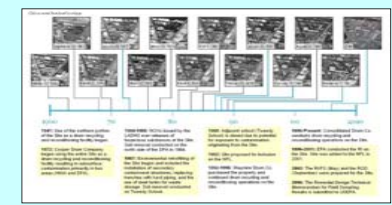


- GIS Inventory Outputs
- Candidate Sites for Phase I's
 - Ranked Land Valuation vs. Clean Up Costs
 - Ranking of Degree of Impacts
 - Cost
 - Acreage
 - Volumes
 - Degree and Type of Developer Interest
 - Site Marketing Information (e.g. ICSC Meetings)
 - Location vs Existing Infrastructure

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

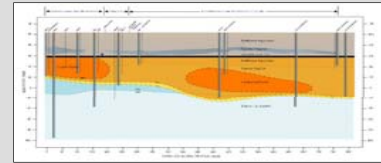
Final Conclusionary Results and Work Product for City

- 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



Project Navigator, Ltd. (P.N.L.) is a leading environmental remediation project which often leads to land development. To the left, the site has been fully remediated and is now being used for residential development. The following points are our findings on how to substantially decrease the cost of a long track. These improvements can be implemented in a relatively short period of time, and will result in a significant increase in the value of the site.

STRATEGIC ENHANCEMENTS FOR SUSTAINABILITY

Water features could include:

1. Artificial water features (e.g., fountains, waterfalls, etc.)
2. Artificial water features (e.g., ponds, lakes, etc.)
3. Artificial water features (e.g., streams, rivers, etc.)
4. Artificial water features (e.g., canals, etc.)
5. Artificial water features (e.g., etc.)

Additional sustainable features could include:

13. Green roofs
14. Rainwater harvesting
15. Energy-efficient lighting
16. Energy-efficient appliances
17. Energy-efficient HVAC systems

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 www.PNLProjects.com

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