Public Informational Meeting



Response Action Plan



Gateway South Phase I and Warner
Street Properties
Baltimore, Maryland 21230

April 11, 2013

Agenda

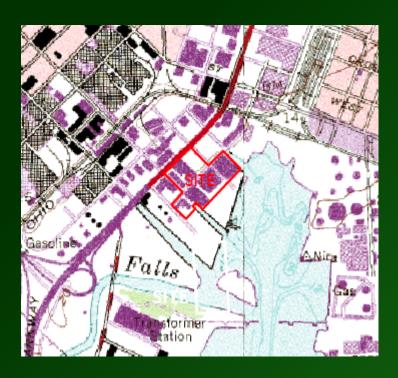
- Introductions
- Maryland Voluntary Cleanup Program and VCP Process
- Gateway South Phase I and Warner Street Properties
 - Site Description
 - Environmental Investigations
 - Future Development
 - Exposure Assessment
 - Response Action Plan
- Comments

Introductions

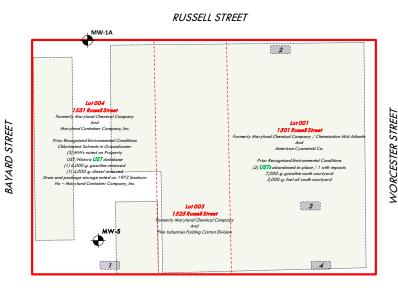
- Regulatory Agency
 - Maryland Department of the Environment
- Participant
 - CBAC Gaming, LLC
- Environmental Consultant
 - Urban Green Environmental, LLC

Gateway South Phase I and Warner Street Properties Site Description

- 8.58 acres of land
- 11 adjoining parcels
 - o 1501, 1601, 1629, 1633 and 1645 Warner Street
 - o 2119 Haines Street
 - 2102 Oler Street
 - o 1501, 1525, and 1551 Russell Street
- Site History
 - o Gateway South Phase I:
 - American Cyanamid and Maryland Chemical Company
 - Warner Street Parcels:
 - Industrial use since the 1800s
- Utilities (Site and surrounding area)
 - Municipal water and sewer
 - Natural gas and electric
 - No known active water supply wells

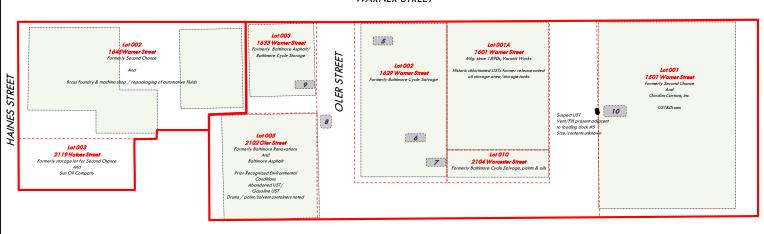


Gateway South Phase I and Warner Street Properties Environmental Investigations – Historic Site Uses





WARNER STREET





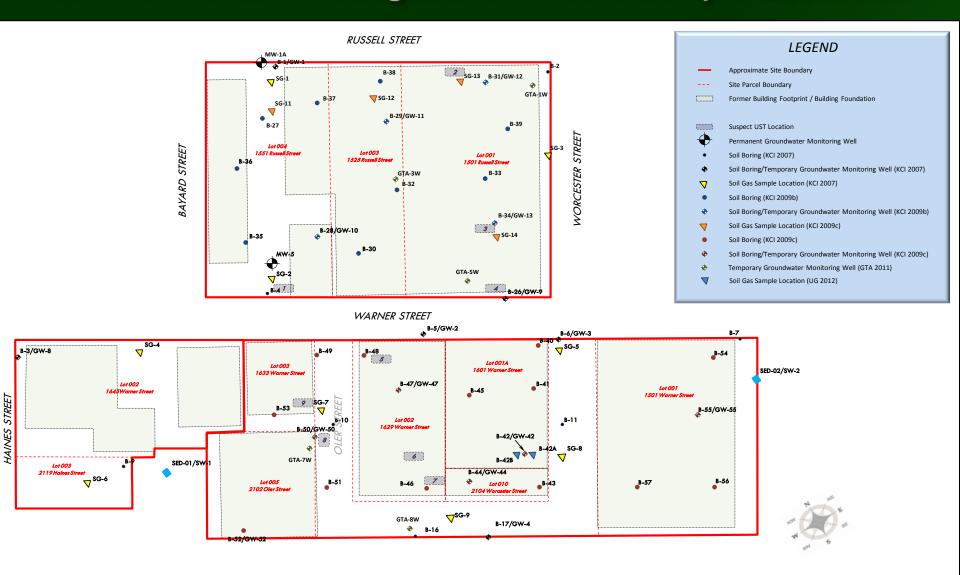
Gateway South Phase I and Warner Street Properties Environmental Investigations

2007	KCI Phase I Environmental Site Assessment (ESA) - Gateway South
2007	KCI Phase II ESA - Gateway South
2007	KCI Phase I ESA - Gateway South
2008	KCI Phase II ESA - Gateway South
2009	KCI Phase I ESA Update – Gateway South
2009	KCI Phase II ESA - Gateway South Redevelopment, Former Warner Street Properties
2009	KCI Phase II ESA - Gateway South Redevelopment, Former Maryland Chemical Corp
2009	KCI Addendum to Phase II ESA - Gateway South Redevelopment, Former Warner Street Properties
2009 and 2	2010 MDE Toxicological Evaluations
2011	GTA Report of Preliminary Geotechnical Exploration

Gateway South Phase I and Warner Street Properties Environmental Investigations

- Phase I Environmental Site Assessment Results
 - Recognized Environmental Conditions (RECs) Identified
 - Former Industrial Uses
 - Former Regulatory Case Files (RCRA)
 - Suspect and Historic USTs
 - Former Regulated Materials Handling and Use
 - Off-Site parcels
- Phase II Environmental Site Assessments
 - Site-Wide Media Sampling to Evaluate RECs
 - Over 90 Soil Samples
 - 20 Groundwater Samples
 - 15 Soil Gas Samples

Gateway South Phase I and Warner Street Properties Environmental Investigations – Media Sample Locations



Gateway South Phase I and Warner Street Properties Environmental Investigations

• Environmental Investigation Results

- Surface and Subsurface Soil
 - Volatile organic compounds (VOCs)
 - Heavy metals
 - Semi-volatile organic compounds (SVOCs)
 - Petroleum compounds, and

Groundwater

- VOCs (predominantly on the Gateway South property)
- ♦ SVOCs
- Petroleum hydrocarbons
- Metals
- Pesticides

♦ Soil Gas

VOCs (predominantly on the Gateway South property)

Future Site Use – Tier 2B, Restricted Non-Residential

Proposed VCP Future Land Use:

Tier 1B, Restricted Commercial.

The term restricted commercial refers to the planned use of the property that allows exposure and access by the general public, workers, and other expected users, including customers, patrons, or visitors. Commercial purposes allow access to the property and duration consistent with a typical business day. Tier 2 properties typically include shopping centers, retail businesses, vehicle service stations, medical offices, hotels, office space, religious institutions and restaurants.

Restricted Commercial also indicates that one or more land use controls are imposed on the property as a condition for the future use of the Site. At a minimum, it is anticipated that a groundwater use restriction will be placed on the property.

Future development includes construction of a two-story casino structure (including additional restaurant and retail space) and associated <u>open air</u> multi-level parking on the northern portion of the Site (Gateway South Phase I Parcel), and an <u>open air</u> multi-level parking structure and facility service areas on the southern portion of the Site (Warner Street Properties Parcel).

Gateway South Phase I and Warner Street Properties Response Action Plan

Without a remedy, potential exposure pathways include

Future Construction Worker

Incidental ingestion of soil
Inhalation of soil particles/fugitive dust
Dermal contact with soil
Dermal contact with groundwater
Inhalation of subsurface gases

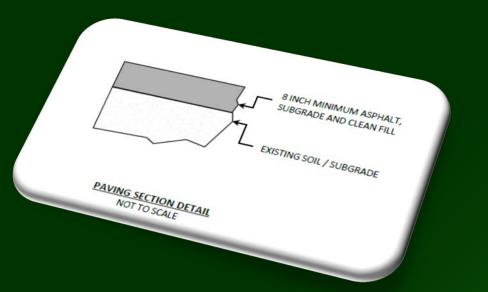
Future on-Site Commercial Worker and On-Site Visitor

Incidental ingestion of soil
Inhalation of soil particles/fugitive dust
Dermal contact with soil
Dermal contact with groundwater
Inhalation of subsurface gases

Gateway South Phase I and Warner Street Properties Response Action Plan

Summary of Exposure Pathways and Response Action		
Exposure Pathway	Response Action	
Ingestion of Soil	ENVIRONMENTAL CAP	
ingestion of 30ii	Health and Safety Plan and Environmental Monitoring	
Inhalation of Soil / Dust	ENVIRONMENTAL CAP	
ilitialation of Soil / Dust	Environmental Monitoring / Dust Monitoring and Dust Suppression	
Contact with Soil	ENVIRONMENTAL CAP	
Contact with 5011	Health and Safety Plan and Environmental Monitoring	
Inhalation of Soil Gases	VAPOR MITIGATION SYSTEM	
ililialation of John Gases	Health and Safety Plan and Environmental Monitoring	
Contact with Groundwater	Groundwater use restriction	
Contact with Groundwater	Health and Safety Plan and Environmental Monitoring	

- Engineering Controls (ENVIRONMENTAL CAP)
 - Paved and Concrete Covered Areas
 - 8-inch asphalt pavement and clean fill sub-base, or
 - 4 to 5-inch thick concrete slab
 - Landscaped Areas
 - Geotextile Barrier/Warning Barrier
 - o 2-foot clean soil fill (minimum)
 - Shallow Utility Trenching



• VAPOR MITIGATION SYSTEM

- Vapor Barrier and Passive Subslab Depressurization System
 - Clean stone sub-base
 - Perforated PVC piping network underlying the entire slab foundation
 - Fresh air intakes
 - Vents (to roof)
 - Upgradable to active system



Example SSDS Installation

- Post-Construction Confirmatory Indoor Air Sampling Events
 - Three events to evaluate system performance
 - o Immediately following building enclosure
 - o <mark>30-days</mark>
 - 60-days

- Future Use Restrictions / Institutional Controls
 - Land Use Restriction (Restricted Commercial)
 - Groundwater Use Restriction
 - Notification to the MDE for any future excavations which penetrate the cap
 - Requirements for future excavations (characterization and disposal of any material excavated in the future; health and safety requirements)
 - Long term maintenance and inspection (Annual Inspections)
 - Land use restrictions must be recorded on the Deed for the property

- Health and Safety Protocols During Development
 - Maintain a Secured Site
 - Environmental Monitoring and Environmental Oversight
 - Dust Suppression
 - OSHA Compliance
 - Monthly Reporting to MDE
- Additional Remedial / Response Action Elements
 - Removal of existing drums and regulated materials
 - Removal and closure of all Underground Storage Tanks
 - Excess Soil Sampling and Removal
 - Clean Fill
 - Unknown or Unanticipated Conditions

Comments, questions or requests should be submitted to the VCP project manager by April 23, 2013:

Richelle Hanson

Maryland Department of the Environment
Voluntary Cleanup Program
1800 Washington Boulevard, Suite 625
Baltimore, Maryland 21230
Telephone 410-537-3493