LAND USE CONTROL IMPLEMENTATION PLAN



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION KENNEDY SPACE CENTER BREVARD COUNTY, FLORIDA



FACILITY:General Services Administration (GSA) Reclamation Yard
Solid Waste Management Unit No. 10CONTAMINANTS:VOCs in Groundwater and PCBs in Soil
Prohibit Groundwater Use and Residential Exposure to Surface Soils

PURPOSE OF LAND USE CONTROL IMPLEMENTATION PLAN

This Land Use Control Implementation Plan (LUCIP) has been prepared to inform current and potential future users of the General Services Administration (GSA) Reclamation Yard of institutional controls that have been implemented at the site¹. Although there are no current unacceptable risks to human health or the environment associated with the GSA Reclamation Yard. institutional land use controls (LUCs) are (i) prohibit the use of necessary to: groundwater from the site; and (ii) prohibit residential exposure to site soils. Controls will include periodic inspection, condition certification and agency notification.

WHY LAND USE CONTROLS ARE NEEDED

Human health and ecological risk assessments were completed as part of a Resource Conservation and Recovery Act Investigation Facility (RFI). (RCRA) Chemicals of concern identified for human health risk during the RFI that exceeded Florida Department of Environmental Protection (FDEP) and United States

Environmental Protection Agency (EPA) cleanup target levels were volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs) and chlorobenzenes in groundwater and PCBs in soil.

SITE DESCRIPTION

The GSA Reclamation Yard is a NASAoperated facility that was constructed in the late 1960s to facilitate the recycling of a variety of equipment and chemicals used by the Kennedy Space Center (KSC). The facility includes a former hazardous materials building and several storage warehouses and sheds that comprise an area of approximately 7 acres. Past and current operations at the GSA Reclamation Yard include the storage of office equipment, air conditioners, transformers, batteries, lawn mowers, paints, solvents, pesticides, oils, and adhesives. Solvents are no longer stored onsite. The site location and facility map are included as Figures 1 and 2. respectively.

SITE LOCATION

The GSA Reclamation Yard is located on the south side of Ransom Road and west of

^{1.} This LUCIP summarizes institutional controls regarding the NASA KSC General Services Administration (GSA) Reclamation Yard. For detailed information on the site, consult the GSA Reclamation Yard administrative file, which is available for review by contacting the KSC Environmental Program Office at telephone number (321) 867-8411.

Kennedy Parkway (Figure 1). The site is located within Section 7 of Township 23S, Range 37E which is in the Orsino Quadrangle. The soil and groundwater use control areas covered by the LUCIP are shown on Figure 2. Coordinates of the corners of the LUC are provided in Figure 2 in the State Plane Coordinate System NAD 1983 meters, Florida East.

SITE CONTAMINATION AND CONTROL

Groundwater at the site contains VOCs, PCBs and chlorobenzenes above FDEP's groundwater cleanup target levels. PCBs also are present above FDEP's residential soil cleanup target levels (SCTLs). The past, current, and projected future land use of the GSA Reclamation Yard is industrial in nature. LUCs are therefore required to prohibit the use of groundwater at the site and prohibit residential use and exposure to soil. Indoor air quality shall be evaluated prior to any construction within the groundwater use control area.

DECISION DOCUMENT

A Statement of Basis (SB) establishes institutional controls as a component of the remedy for the site. The SB for the site, KSC document number KSC-TA-6703, is available for review by contacting the KSC Environmental Program Office at telephone number (321) 867-8411.

IMPLEMENTATION

Institutional controls will be implemented by the KSC Environmental Program Office in accordance with their RCRA permit and a Land Use Control Assurance Plan included in a Memorandum of Agreement (MOA)² between NASA, FDEP, and EPA, effective February 23, 2001. Upon approval of this LUCIP, it will be incorporated into the permit by reference. Property transfer (if conducted in the future) will be conducted in accordance with Section X of the MOA.

KSC's Environmental Program Office will provide KSC's Master Planning Office with survey coordinates of the LUCs. Restrictions will specify limitations on development and reuse for the area for as long as LUCs are necessary to protect human health and the environment.

MONITORING

Quarterly inspections to monitor that the institutional controls specified herein are in place and operating will be conducted by KSC's Environmental Program Office. The inspection will verify that neither residential exposure to soils nor groundwater use is occurring, and that site swales meet the alternative SCTL assumptions.

^{2.} By separate MOA effective February 23, 2001, with the EPA and FDEP, KSC, on behalf of NASA, agreed to implement Center-wide, certain periodic site inspections, condition certification, and agency notification procedures designed to ensure the maintenance by Center personnel of any site-specific LUCs deemed necessary for future protection of human health and the environment. A fundamental premise underlying execution of that agreement was that through the Center's substantial good faith compliance with the procedures called for herein, reasonable assurances would be provided to EPA and FDEP as to the permanency of those remedies which included the use of specific LUCs.

Although the terms and conditions of the MOA are not specifically incorporated or made enforceable herein by reference, it is understood and agreed by NASA KSC, EPA and FDEP that the contemplated permanence of the remedy reflected herein shall be dependent upon the Center's substantial good faith compliance with the specific LUC maintenance commitments reflected herein. Should such compliance not occur or should the MOA be terminated, it is understood that the protectiveness of the remedy concurred in may be reconsidered and that additional measures may need to be taken to adequately ensure necessary future protection of human health and the environment.

REPORTING

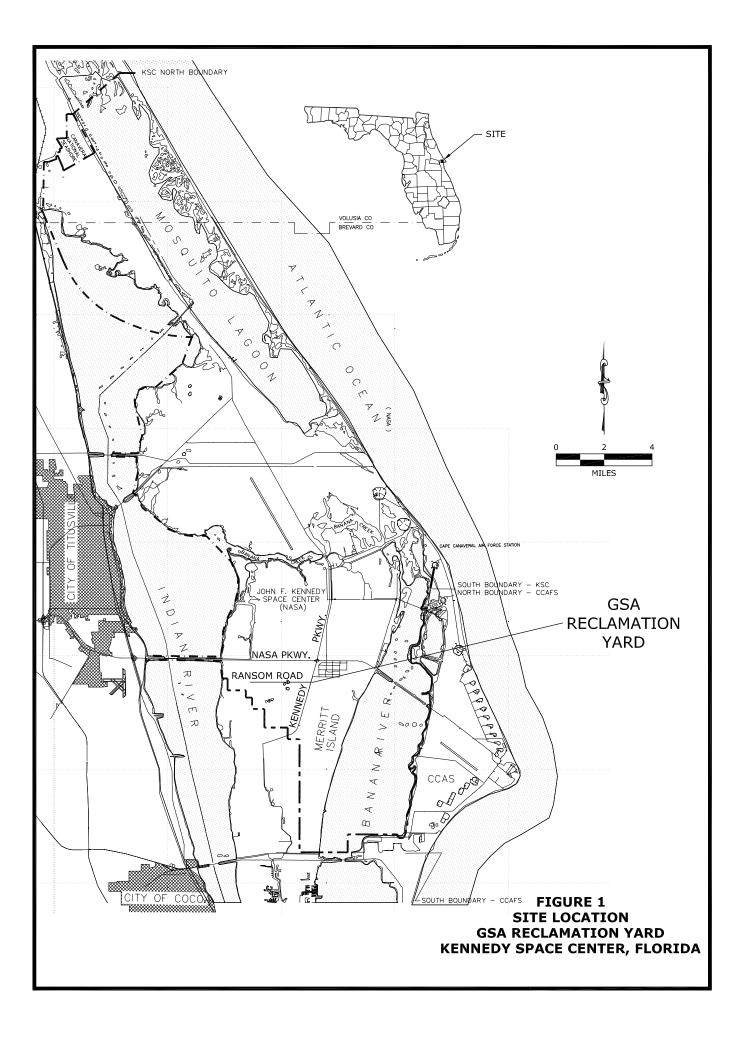
KSC's Environmental Program Office will submit annual reports to EPA and FDEP certifying retention of the implemented LUCs.

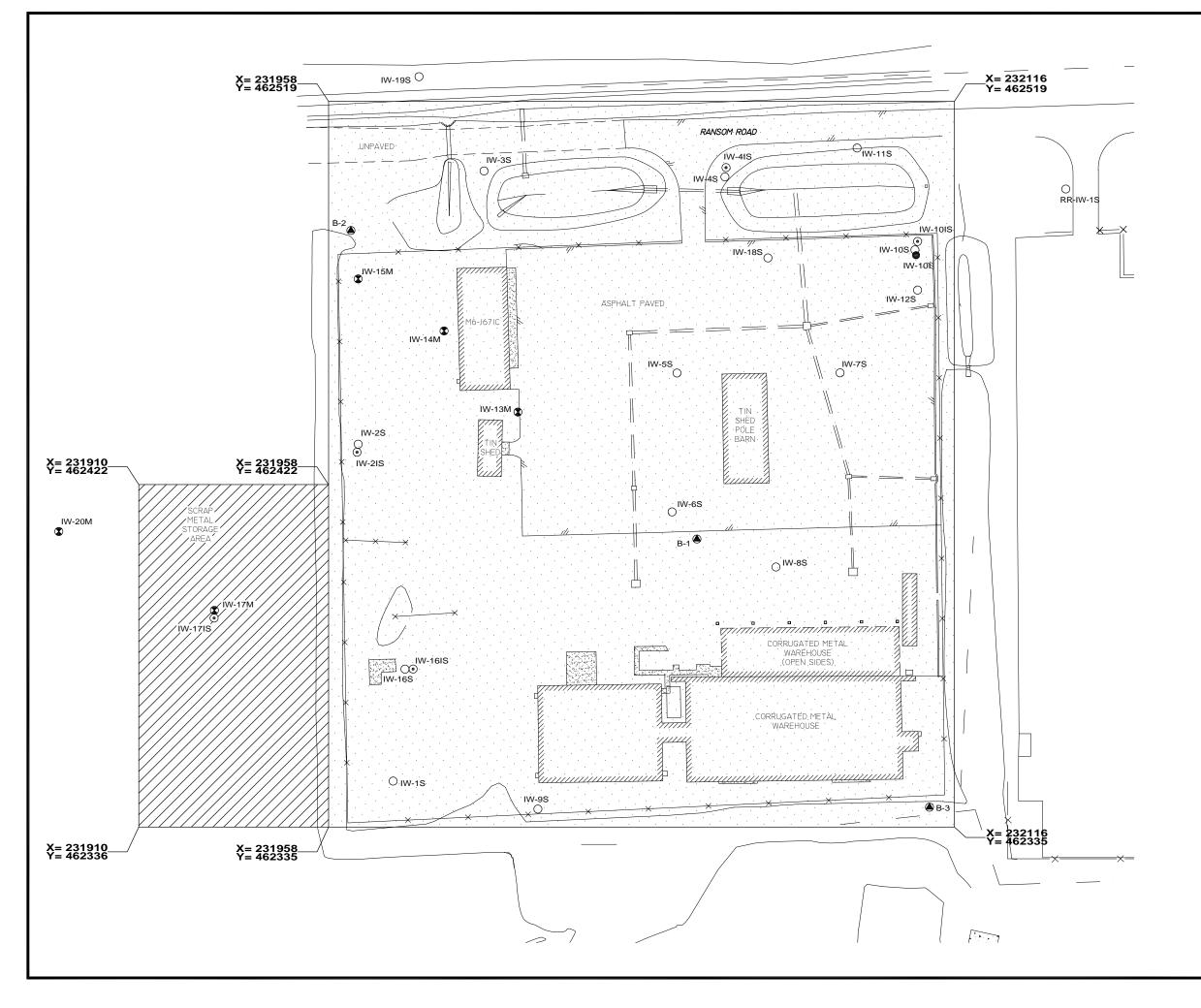
ENFORCEMENT

KSC's Environmental Program Office will be responsible for stopping any activities at KSC that are not compliant with this LUCIP.

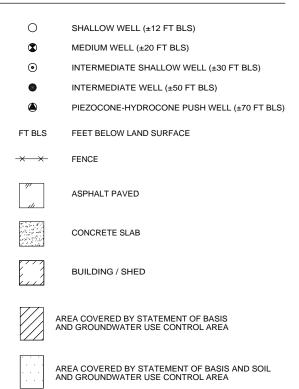
MAINTENANCE

The LUCIP shall remain in place until a land use change is implemented and the concerns managed by the LUCIP are mitigated; or there is a discovery, based upon analytical evidence, that scenarios managed by the LUCIP are no longer a concern. Any change in LUC management must be approved by the EPA and FDEP and implemented by modification of NASA's operating permit.





EXPLANATION



NOTES: 1. SURVEY COORDINATES ARE IN STATE PLANE COORDINATE SYSTEM NAD 1983 METERS, FLORIDA EAST

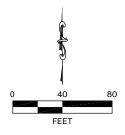


FIGURE 2 FACILITY MAP **GSA RECLAMATION YARD** SWMU #10 **KENNEDY SPACE CENTER FLORIDA**

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