



Department of
Environmental
Conservation

BP Terminal – Greenpoint, NY

Project Update Meeting

David Lates, NYSDEC

January 25, 2016

ExxonMobil Greenpoint Remediation Project (GPRP)

Public Meeting

Wednesday, 1/27/2016 at 6:00 – 9:00 PM

Brooklyn Public Library

Greenpoint Branch

107 Norman Ave.

Brooklyn, NY 11222

Presentation at 7:00 PM followed by Q&A session



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Presentation Overview

- History of the Greenpoint Area
- Greenpoint Project Remediation Sites
- BP Terminal – Remediation Update
- Upcoming Transfer of Ownership/Operation
- Questions & Comments



History of the Greenpoint Project

Greenpoint History

- Pre 1860's: Whale Oil Refining
- 1860's-1960's: Petroleum Refining
 - 1890's: Standard Oil Refinery Consolidation (broken up in 1911)
- 1966: Refinery Operations Cease
- 1978: Seep into Newtown Creek Noted by U.S. Coast Guard and Remediation Begins.



← Midtown Manhattan

BP Terminal ←

Standard Oil Refinery (1950s)



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Newtown
Creek WPCP

BP Terminal

Historical and Current Extent of Free-Product Plume



GPRP Free-Product Estimates (gallons)

Ecology and Environment

- Original Plume Volume..... 20,000,000
- Product Recovery to Date..... 12,200,000
- BP Product Recovered to Date..... 3,534,000



Greenpoint Remediation Sites



Greenpoint Remediation Sites

Since the initial 1978 investigation, remediation has occurred and is active at the following Sites in Greenpoint:

- ExxonMobil GPRP (1978 – Present)
- BP Terminal (1980 - Present)
- Former Paragon Oil Terminal (2005 - Present)
- Apollo Street Creek Parcels (2009 - Present)

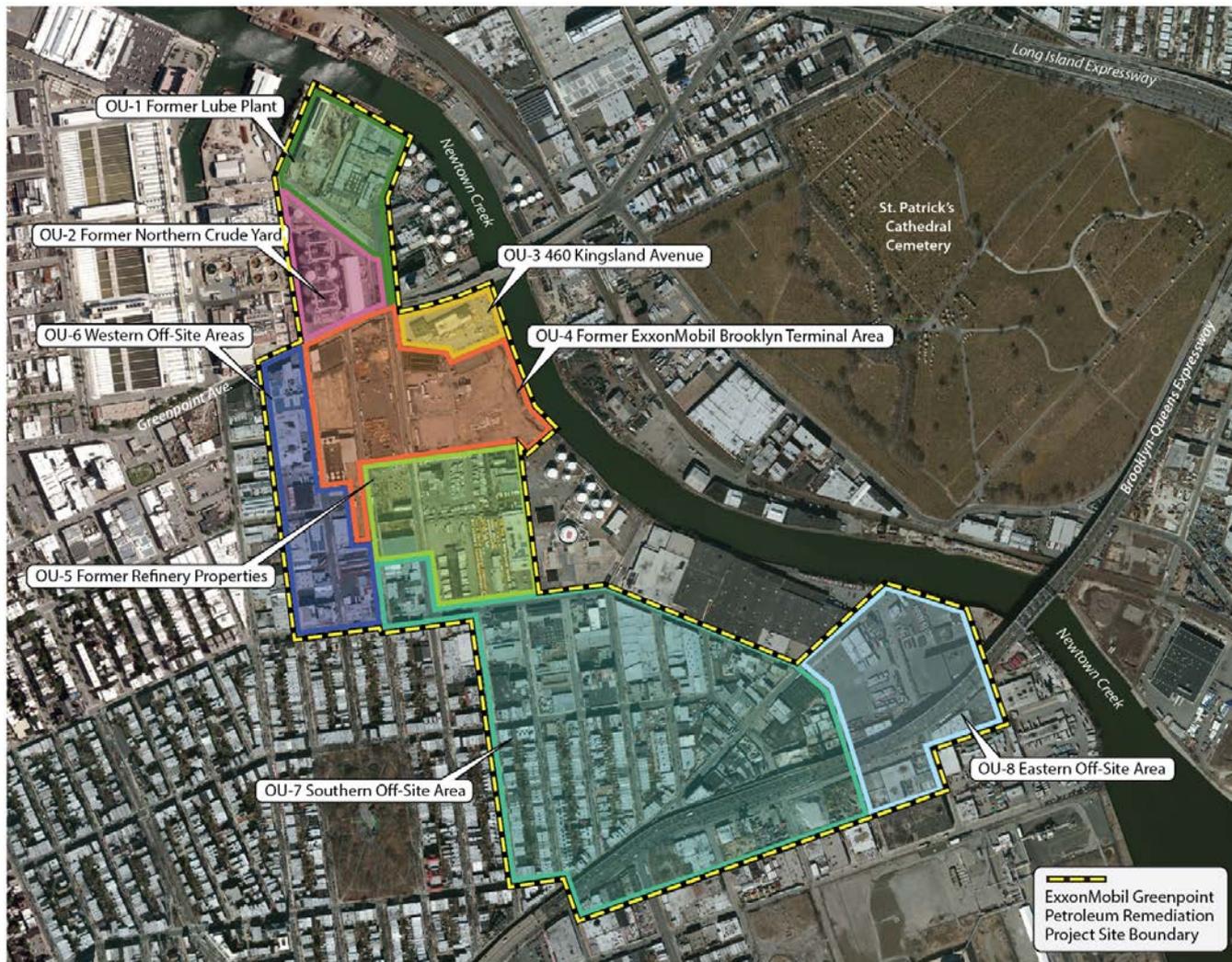




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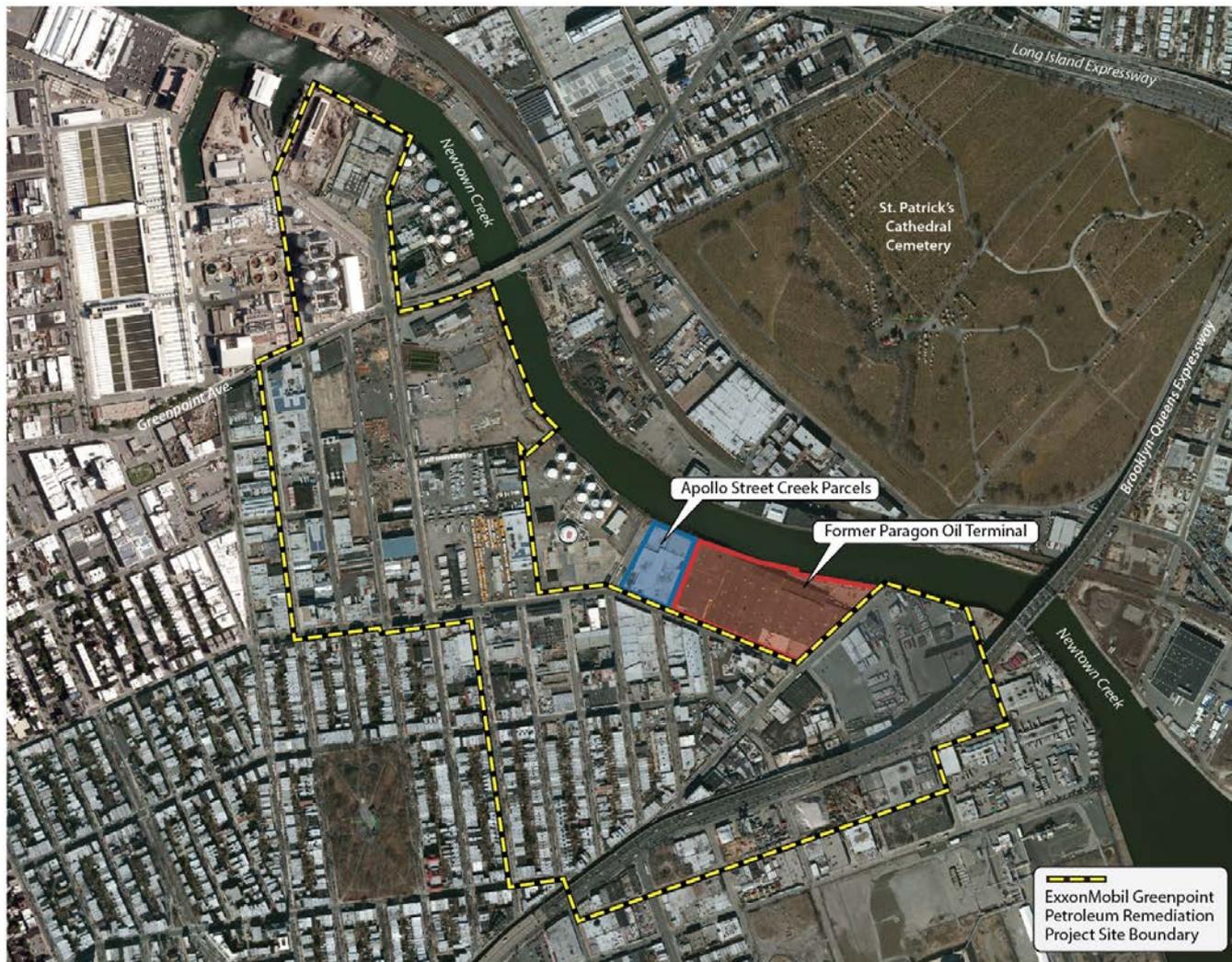
ExxonMobil GPRP

- 174 acres, 8 Operating Units (OUs)
- NYSDEC Project Manager: Ben Rung



Former Paragon Oil Terminal & Apollo Street Creek Parcels

- 16, 42, 50 Bridgewater St.; 100 – 120 Apollo St.
- NYSDEC Project Manager: Zac Russo



BP Terminal

- 125 Apollo Street
- 10 acre petroleum bulk storage terminal
- NYSDEC Project Manager: Dave Lates



BP Terminal Remediation Update

Brooklyn Terminal Operations

- Active petroleum bulk storage facility
- 12 tanks for a total of 5.9 million gallons of storage



BP Terminal: Removal of the roof off the main product recovery storage tank to clean and perform the tank's 10 year inspection.

BP Terminal Order on Consent

- Between 1986 and 1999, BP had petroleum releases totaling 124,973 gallons. The releases were contained or deemed recovered by the remediation system.
- In 2006 BP signed a consent order with the NYSDEC agreeing to continue to remediate the historic contamination on their property:

“BP agrees to continue to operate this [recovery] system... until the liquid phase free product that is currently at the Site is removed to levels that do not represent a threat to human health or the environment...”



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Remediation Goals

- Protect Public Health & Safety
- Recover Free Product
- Prevent Seepage to Newtown Creek
- Accelerate Soil Restoration
- Accelerate Ground Water Restoration
- Prevent Vapor Intrusion

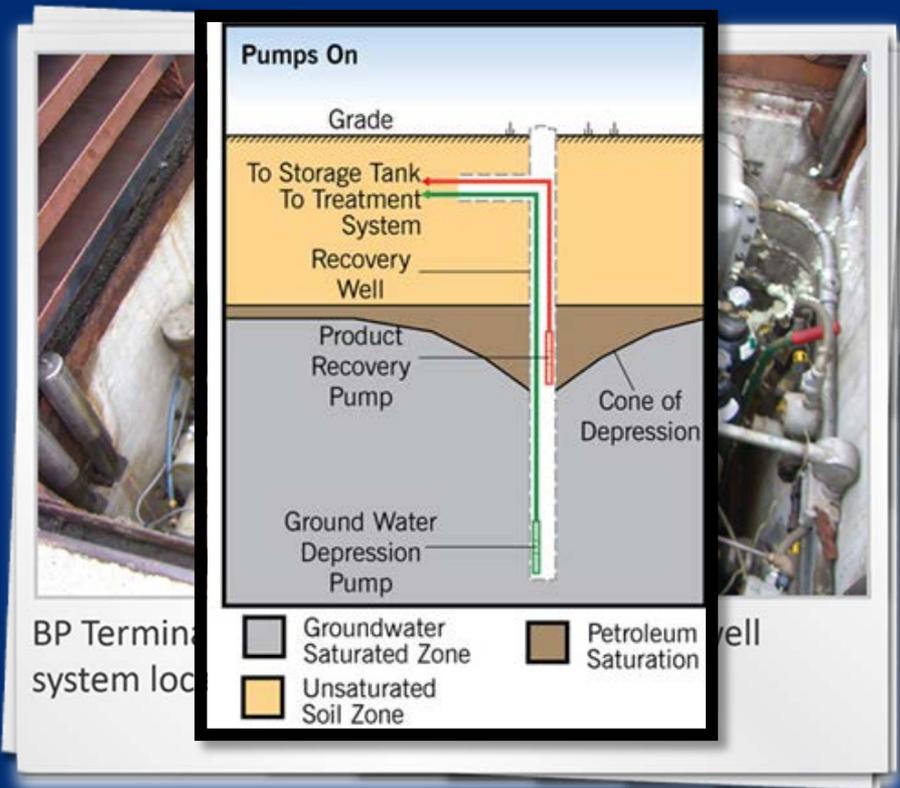


BP Terminal Remediation

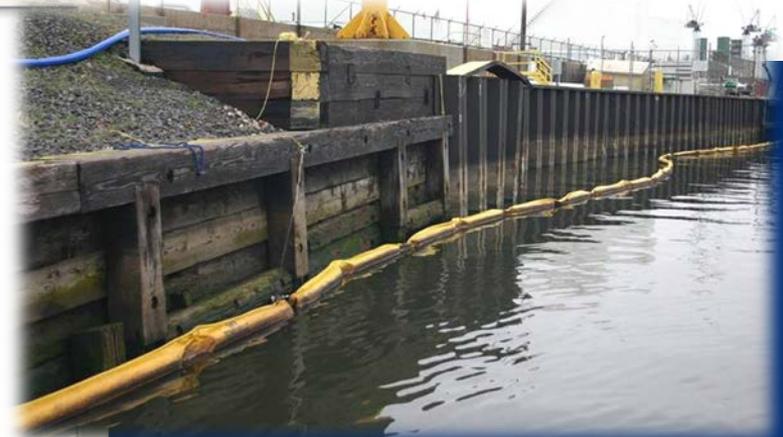
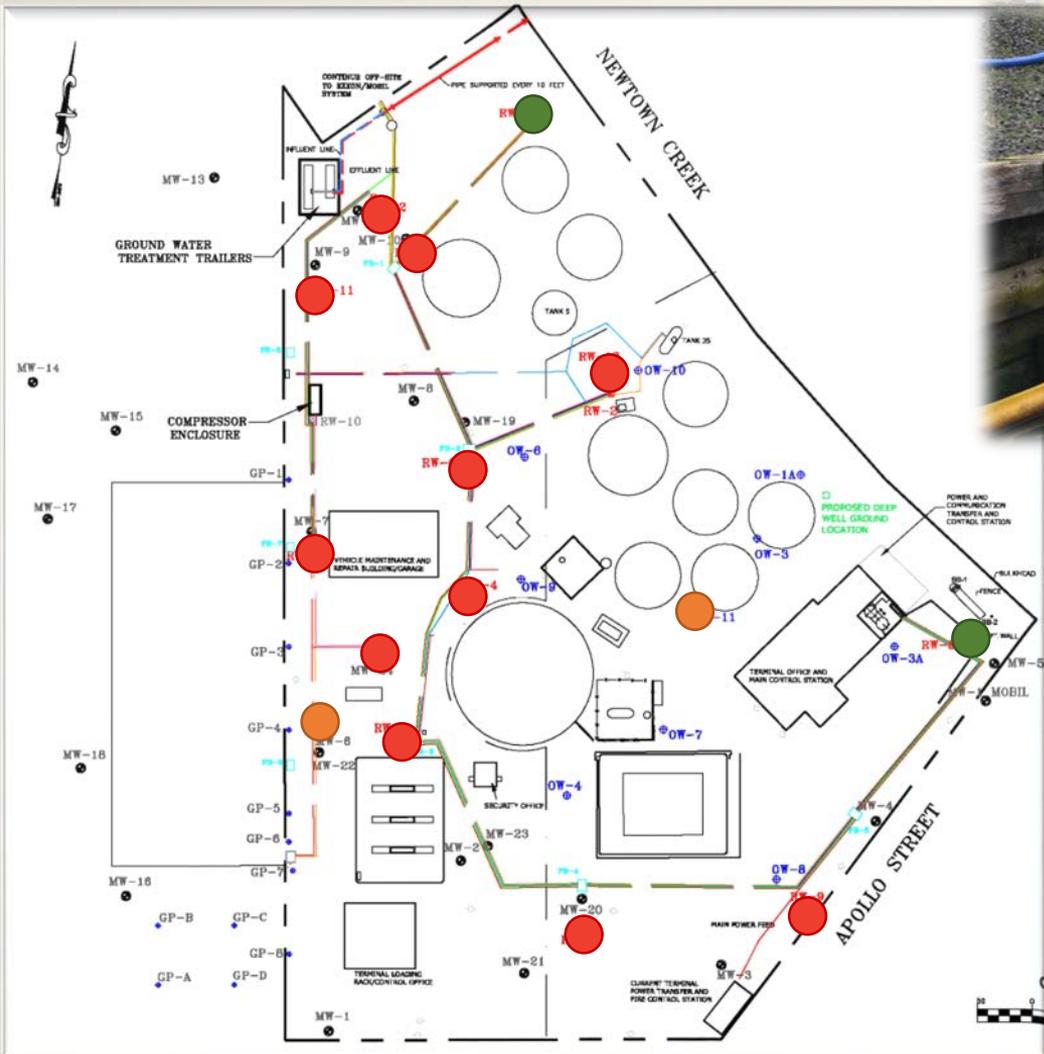


- Onsite management:
Antea Group
- Remediation Summary:
 - Product recovery
 - Groundwater treatment and discharge
 - Vapor monitoring

Product Recovery System



- 11 active product recovery wells
- Aboveground or subsurface vaults
- Dual phase wells pump both groundwater and free-product



Groundwater Treatment System

- SPDES Equivalency
- Components:
 - Oil/water separator
 - Bag filters
 - Air stripper
 - Carbon column



BP Terminal: Air stripper and bag filter units part of the BP groundwater treatment system.

Vapor Monitoring



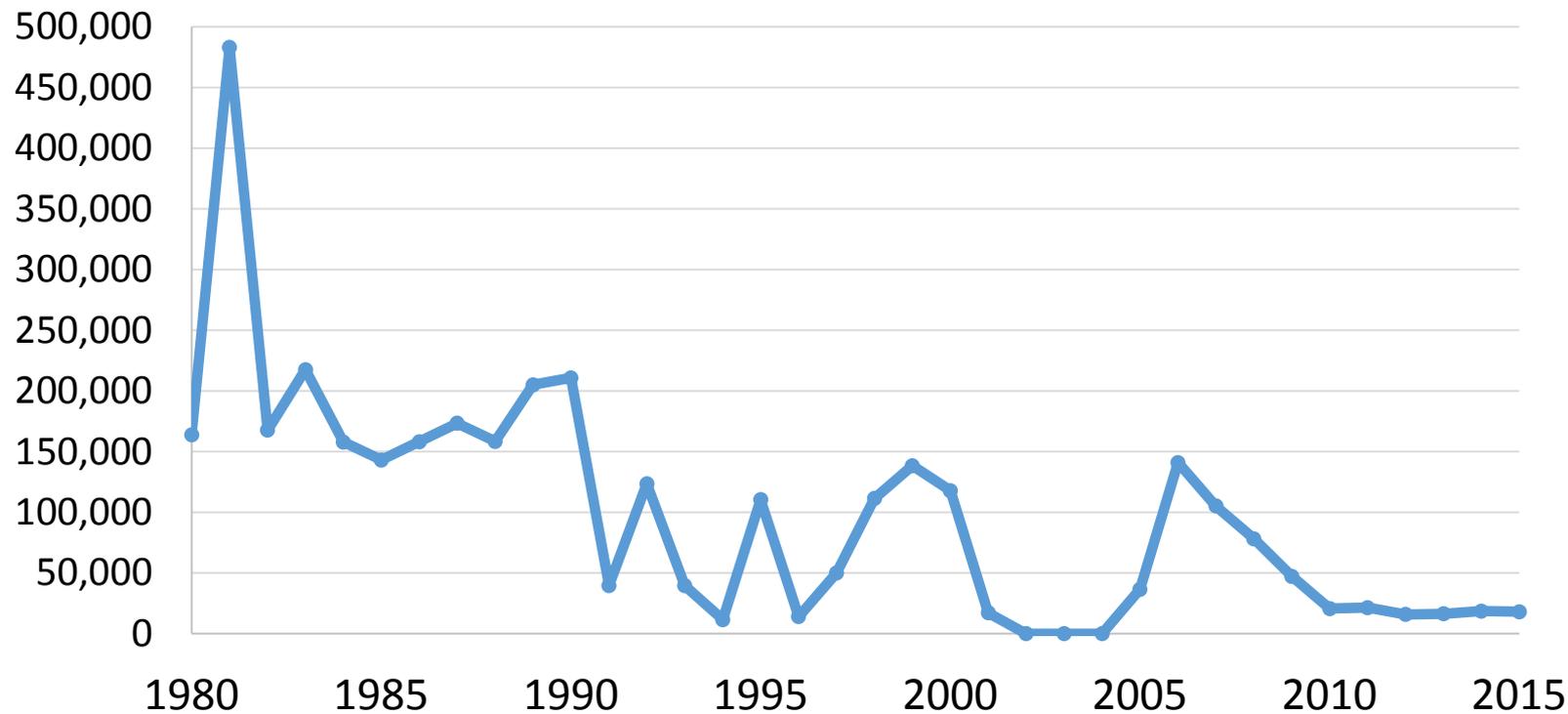
- Annual screening for methane across site
- Monthly indoor air sampling in occupied buildings.

Remedial Milestones

- 2012
 - Recovery wells RW-14 and MW-24 added
- 2013
 - Groundwater treatment system
- 2014
 - Recovery well rehabilitation study
 - Air compressor system
- 2015
 - Interim wells OW-11 and MW-6



Free-Product Recovery at BP Terminal



Upcoming Projects

- Site Characterization Report
- Decision Document for Entire Site (all media)



Upcoming Property Transfer

February 1, 2016



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Sale of Brooklyn Terminal

In October 2015, BP entered into an asset sale agreement with Kinder Morgan.

Includes the transfer and sale of 15 storage terminal properties (including the Brooklyn Terminal) and the creation of a joint venture LLC: KM Phoenix Holdings LLC.

Transfer date is February 1, 2016.



What Does This Mean For Remediation?

- Consent Order amended to add Kinder Morgan
- New Project Manager:
R.J. Sherman, P.G.
Remediation Manager
Kinder Morgan
- Antea Group will remain as the on-site consultant.
- Current operations and future goals remain consistent:
progress will continue as planned.



Thank You

David Lates

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