TA-03

5677

Proposal for

Bypass Roads Project

Presented by

Gabriela Lopez Escobedo

July 17, 2002

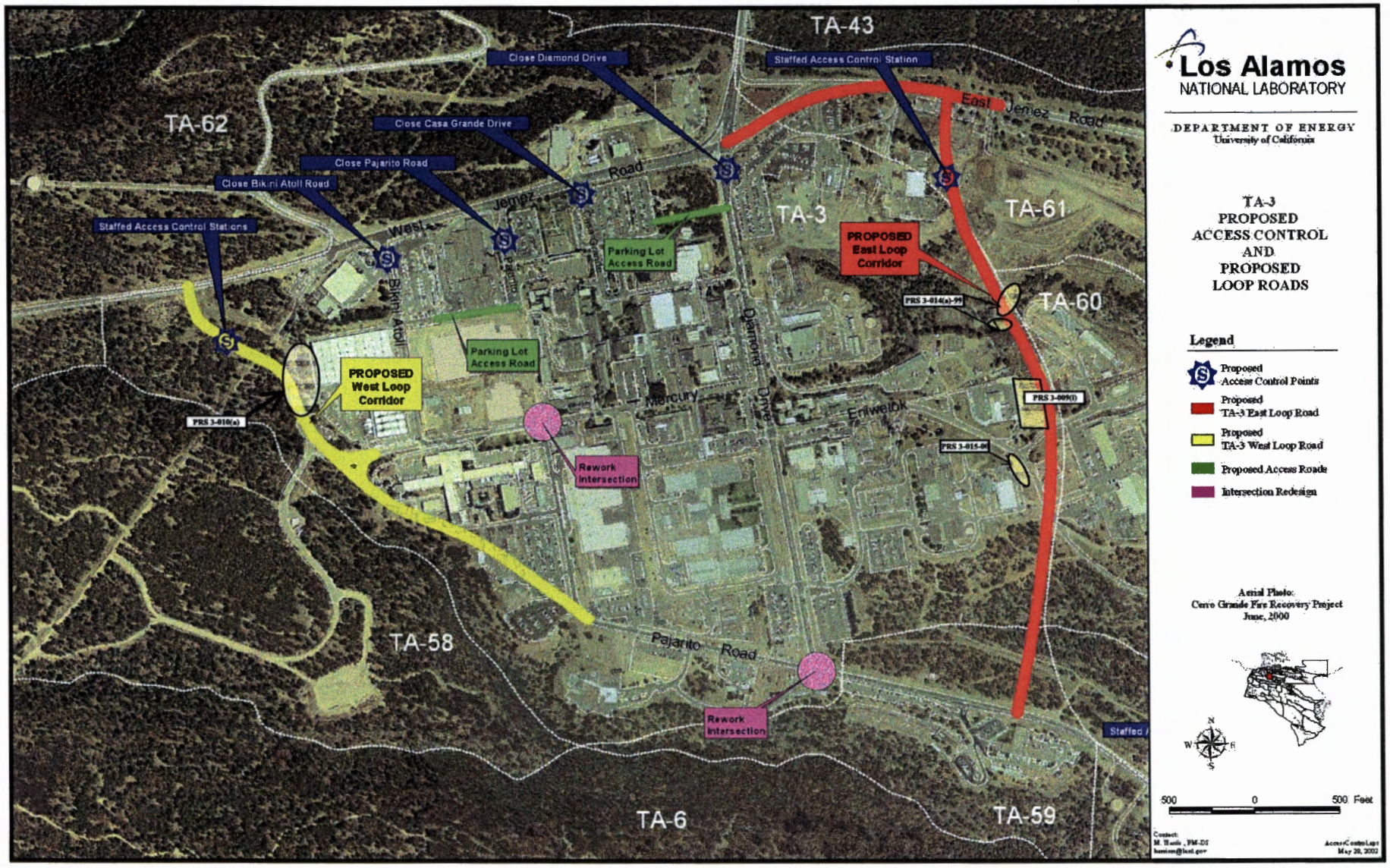
Los Alamos National Laboratory

Bypass Roads Project

- Objective
  - Construct roads around Technical Area 3 and install access control points
- Purpose
  - Provide ability to secure LANL core area

Bypass Roads Project

- **Description**
  - Road from West Jemez to Pajarito (West Rd)
  - Road from East Jemez to Pajarito (East Rd)
  - Access control points on East and West Roads and on Pajarito Road, west of NM State Highway 4


TA-43
Close Diamond Drive
Staffed Access Control Station
East Jemez Road
TA-62
Close Casa Grande Drive
Close Pajarito Road
Close Bikini Atoll Road
Staffed Access Control Stations
West Jemez Road
Parking Lot Access Road
TA-3
TA-61
PROPOSED East Loop Corridor
PRS 3-014(a)-99
TA-60
Bikini Atoll
Parking Lot Access Road
PROPOSED West Loop Corridor
Diamond Drive
Mercury
Entwelok
PRS 3-009(f)
PRS 3-015-06
PRS 3-010(a)
Rework Intersection
TA-58
Pajarito Road
Rework Intersection
TA-6
TA-59
Los Alamos
NATIONAL LABORATORY
DEPARTMENT OF ENERGY
University of California
TA-3
PROPOSED
ACCESS CONTROL
AND
PROPOSED
LOOP ROADS
Legend
Proposed Access Control Points
Proposed TA-3 East Loop Road
Proposed TA-3 West Loop Road
Proposed Access Roads
Intersection Redesign
Aerial Photo:
Cerro Grande Fire Recovery Project
June, 2000
N
W
E
S
500
0
500 Feet

Los Alamos
NATIONAL LABORATORY
Managed by University of California
for Department of Energy
PAJARITO ROAD
AND
STATE HIGHWAY 4
PROPOSED
ACCESS CONTROL
Legend
Proposed Access Control Points
TA-54
TA-36
Staffed Access Control Station
Pajarito Road
State Highway 4
White Rock
N
W
E
S
0
500
1000 Feet
Aerial Photo:
Cerro Grande Fire Recovery Project
June, 2000
Project Management Division
Contact:
M. Harris , PM-DS
harrism@lanl.gov
Produced by:
Moira Valencia, PM-1
AccessControlPoints.apr
April 1, 2002

Staffed Access Control Stations
TA-59
TA-48
TA-64
TA-55
TA-50
Pajarito Road
Los Alamos
NATIONAL LABORATORY
DEPARTMENT OF ENERGY
University of California
PAJARITO ROAD
PROPOSED
ACCESS CONTROL
Legend
Proposed
Access Control Points
Proposed
TA-3 East Loop Road
Aerial Photo:
Cerro Grande Fire Recovery Project
June, 2000
500
0
500 Feet

Bypass Roads Project

- PRSs affected by the construction project
  - HSWA PRS 03-009(i) - debris area
  - HSWA PRS 03-014(a)-99 - TA-3 Waste Water Treatment Plant: SWMU 03-014(j), SWMU 03-014(c2)
  - HSWA PRS 03-015-00 - outfall for floor, sink, and roof drains

PRS 03-009(i) -*summary*

- A 1-2 acre debris area east of TA-03-170, the liquid and compressed gas facility.
- The debris consists of construction rubble (tuff, concrete, rock, asphalt, etc.)
- Use of site was discontinued in 1980.
- This SWMU has never been sampled.
- Contamination is not expected at this site (was proposed for NFA in 1995 work plan).
- No current sampling plan exists.

PRS 03-009(i) -*Proposed IA Work*

- IA Plan
- Assume RFI field sampling work only.
- Drill 7 boreholes (BH) to a 20-ft depth.
- Boreholes will be placed randomly on grid across entire site.
- Collect 3 samples per BH at surface, 10-ft and 20-ft intervals.
- Analyze samples for gamma spec, isotopic U and PU, VOCs, SVOCs, TPH, TAL metals, mercury and PCBs.
- Anticipate no unacceptable concentrations for industrial use of site.

PRS 03-014(a)-99 -*summary*

- PRS 03-014(c2) (part of consolidated PRS 03-014(a)-99), is an outfall and storm channel which drains the yard of the old TA-3 WWTP (decommissioned in 1993).
- Samples were taken at 7 locations and analyzed for VOCs, SVOCs, PCB/pest, herbicides, metals, and radionuclides (one depth for most).
- Analyses revealed metals > UTLs (with lead >SAL), PCBs >UTLs, and several SVOCs >SALs.
- Extent of contamination has not been defined.
- Phase II sampling plan exists.

PRS 03-014(a)-99 -*proposed IA Work*

- Assume RFI field sampling work only for PRS 03-014(c2).
- Hand auger 7 holes (AH) to a minimum 6-ft depth.
- Collect 3 samples per AH at surface, 3-ft and 6-ft intervals.
- Analyze samples for gamma spec, isotopic U and PU, SVOCs, TPH, TAL metals, mercury and PCBs.
- Anticipate defining extent of contamination, and no unacceptable concentrations for industrial use of site, as PRS will be buried with at least 20-ft of fill for new road.

PRS 03-014(a)-99 -*summary*

- PRS 03-014(j) (part of consolidated PRS 03-014(a)-99) is a chlorine contact chamber which was part of the old TA-3 WWTP (decommissioned in 1993).
- 2 soil samples (one depth for all but metals) were taken below the flow measurement weir that exits the chamber, and analyzed for VOCs, SVOCs, PCB/pest, herbicides, metals, and radionuclides.
- Analyses detected metals, PCBs and radionuclides > UTLs.
- Extent of contamination has not been defined.
- Phase II sampling plan exists.

PRS 03-014(a)-99 -*Proposed IA Work*

- Assume RFI field sampling work only for PRS 03-014(j).
- Hand auger 5 holes (AH) to a minimum 6-ft depth.
- Collect 3 samples per AH at surface, 3-ft and 6-ft intervals.
- Analyze samples for gamma spec, isotopic U and PU, SVOCs, TPH, TAL metals, mercury and PCBs.
- Anticipate defining extent of contamination, and no unacceptable concentrations for industrial use of site, as PRS will be buried with at least 20-ft of fill for new road.

PRS 03-015-00 -*summary*

- A former outfall for floor, sink, and roof drains from TA-03-141 (the beryllium facility) located between Eniwetok Rd and the security fence.
- 6 soil samples were taken in the outfall channel for SVOCs, metals, and radionuclides.
- Analyses detected metals and radionuclides > UTLs and PAHs > SALs.
- Extent of contamination has not been defined.
- No current sampling plan exists.

PRS 03-015-00 -*Proposed IA Work*

- Assume removal of contaminated soil.
- Estimated waste volume is 200 x 15 x 2 ft deep = 222 Cu yds of industrial waste.
- Collect 10 confirmatory samples (one depth interval).
- Analyze samples for gamma spec, isotopic U and PU, SVOCs, TAL metals, mercury and PCBs.
- Anticipate defining extent of contamination and no unacceptable concentrations for industrial use of site.

Bypass Roads Project
Estimated Timeline

- Geotechnical testing – July 2002
- Subcontract bid – August 2002
- IA Plan Completed – November 2002
- Corrective Actions – January 2003
- Sampling – January-February 2003
- Reporting – June 2003
- Road Construction – August 2003