



Ground Run-Ups Monitoring at LAX

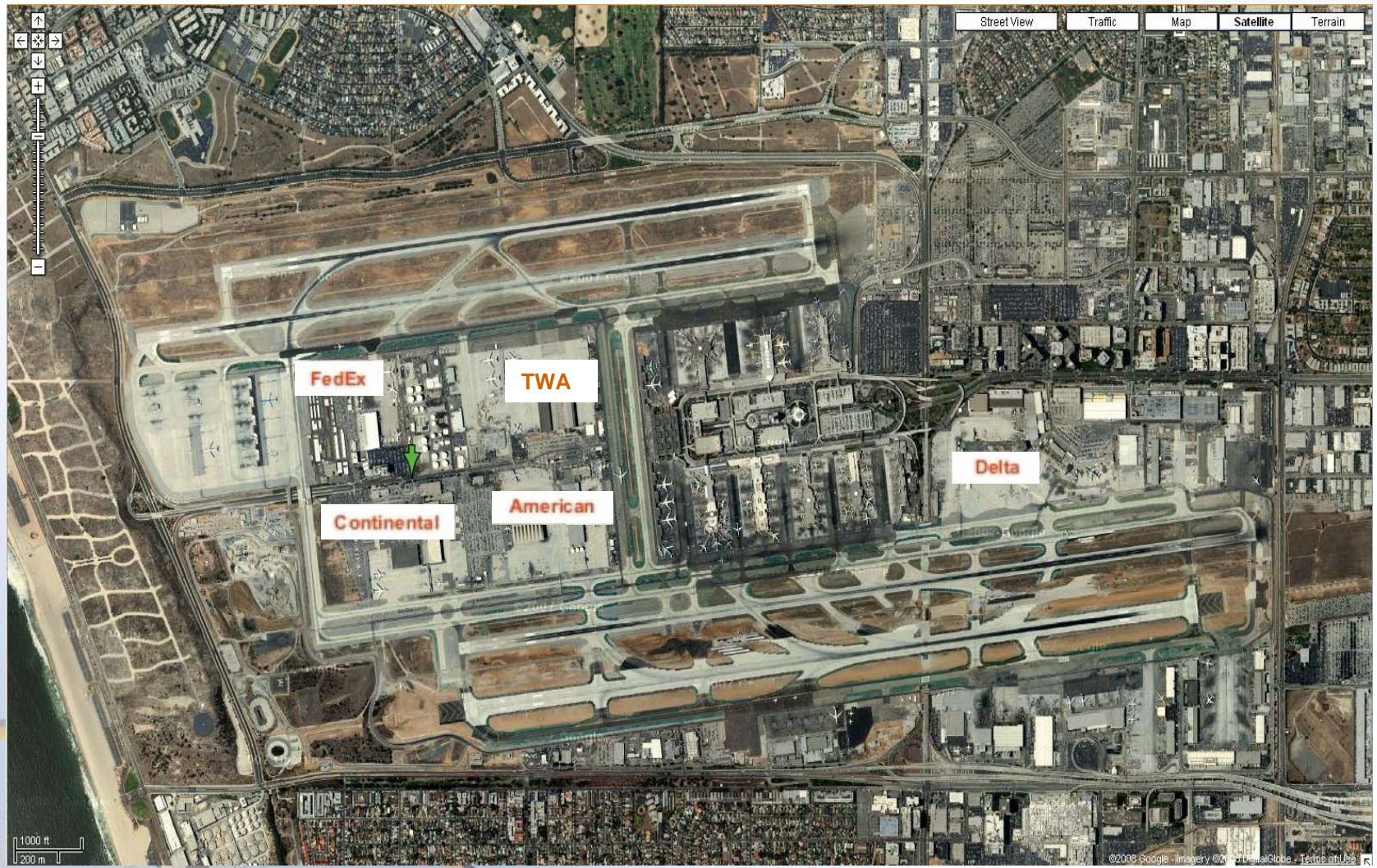
May 14, 2008

LAX/Community Noise Roundtable

Background

- **Engine Run-Ups are part of regular maintenance requirements.**
- **Engines are tested at high power levels to ensure their proper operations and thus cause noise disturbance on surrounding communities.**
- **Engine Run-Ups are prohibited from 2300 to 0600 at LAX.**
- **A system is required to monitor this activity.**

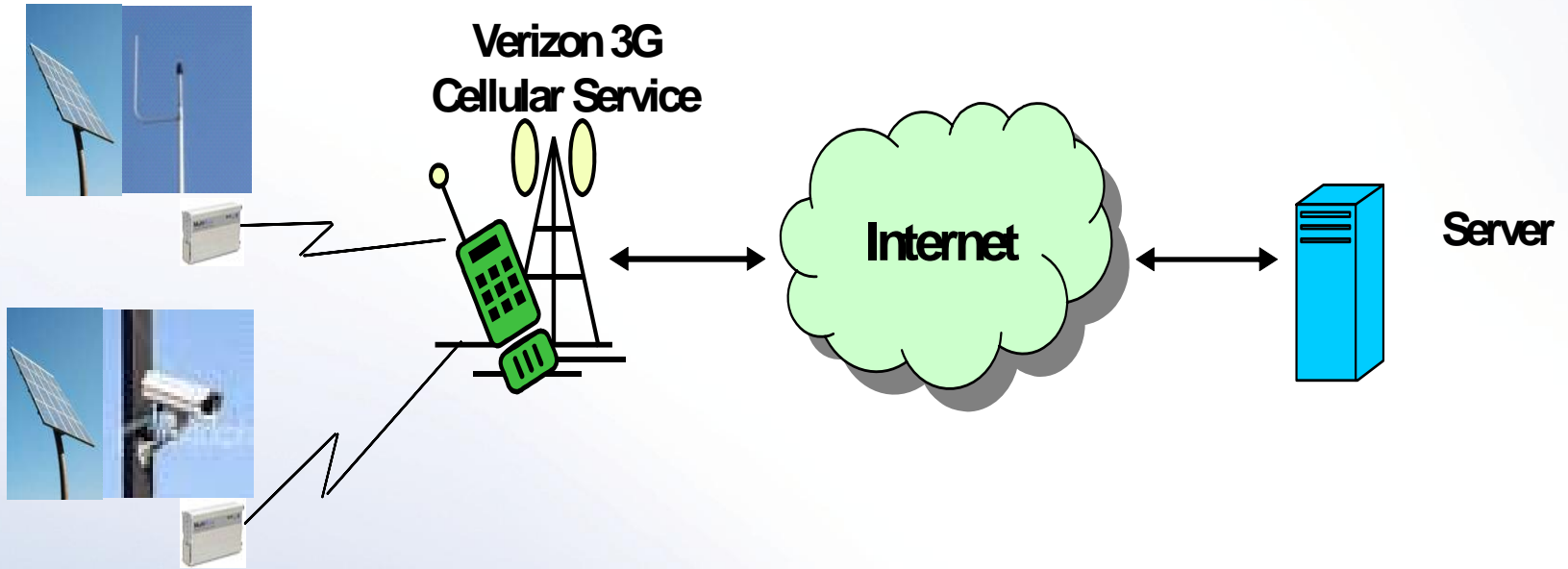
Engine Run-Ups Areas



Technologies

- **Electrical – Solar Panels with Batteries**
- **Communication – 3G Cellular Service**
- **Equipment – Camera and Noise Monitor, both equipped with 3G service**
- **Software – Ability to read text (N-Number) from image (not feasible)**

Diagram



Temporary Monitoring at Fed Ex Run-Up Area



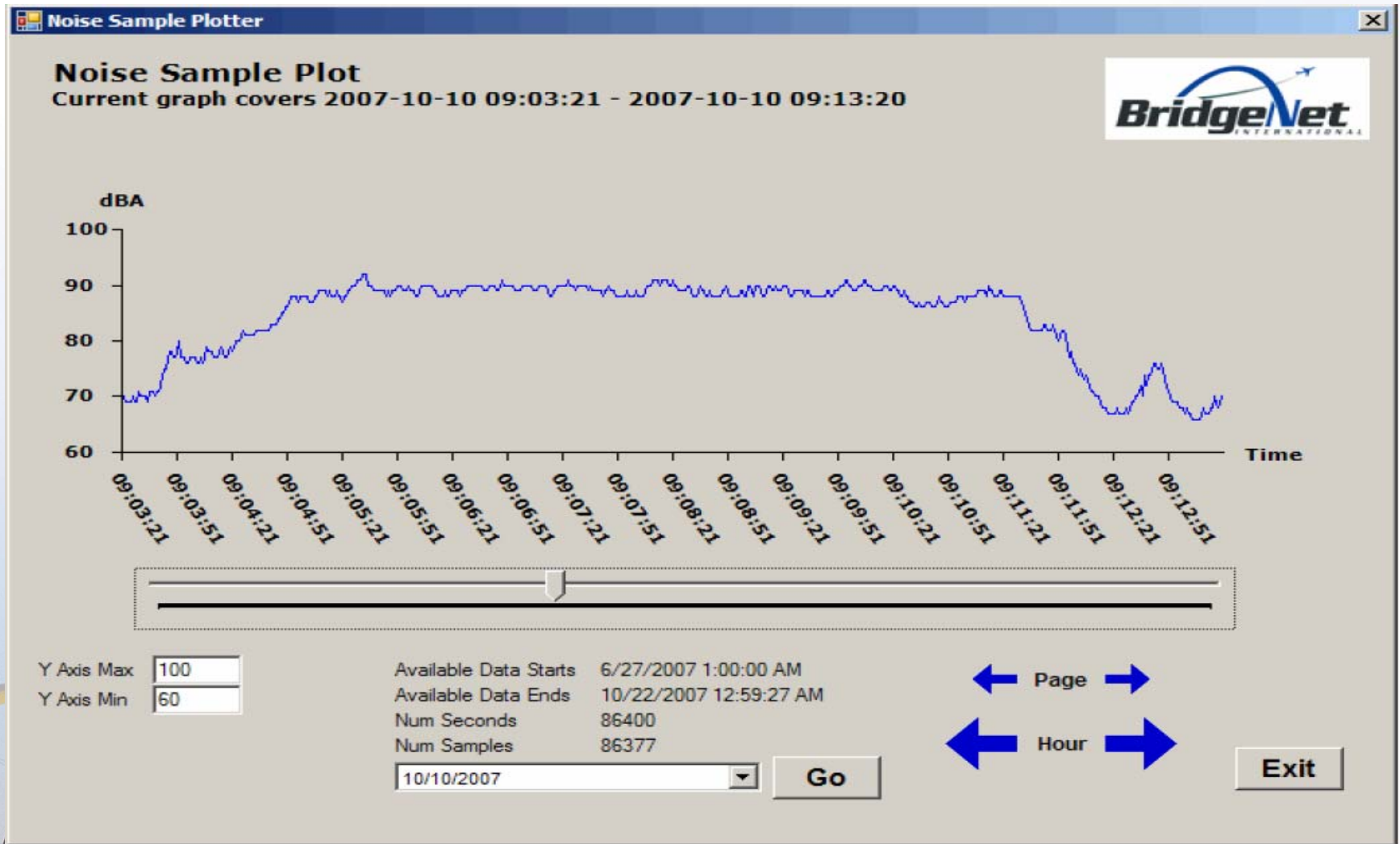
Issue with Communication

- **Missing Images from Camera**
- **Cause – Verizon 24-Hour Disconnect Policy**
- **Solution – Programmed camera to disconnect and reconnect network every minute**
- **Does not affect Noise Monitor**

Actual Image from Camera



Noise Event for Engine Run Up



Example of GRU Reporting Interface

Blank Page - Windows Internet Explorer

about:blank

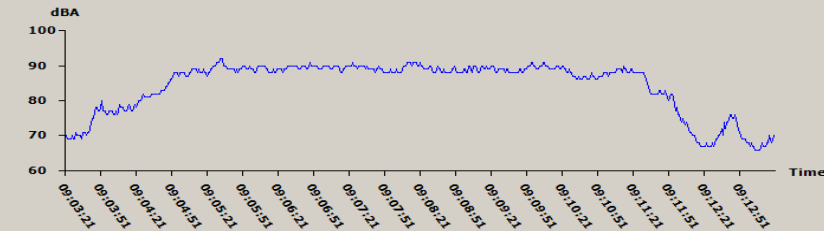

Live Search

Blank Page

| Site | Date/Time of Activity | Status | | | |
|-----------|-----------------------|-------------|-------------|---------|--------|
| 4 - FedEx | 2007-10-10 09:03:21 | Unconfirmed | Unconfirmed | Confirm | Return |

Noise Sample Plotter

Noise Sample Plot
Current graph covers 2007-10-10 09:03:21 - 2007-10-10 09:13:20



Y Axis Max: 100
Y Axis Min: 60

Available Data Starts: 6/27/2007 1:00:00 AM
Available Data Ends: 10/22/2007 12:59:27 AM
Num Seconds: 86400
Num Samples: 86377

10/10/2007


Page

Hour

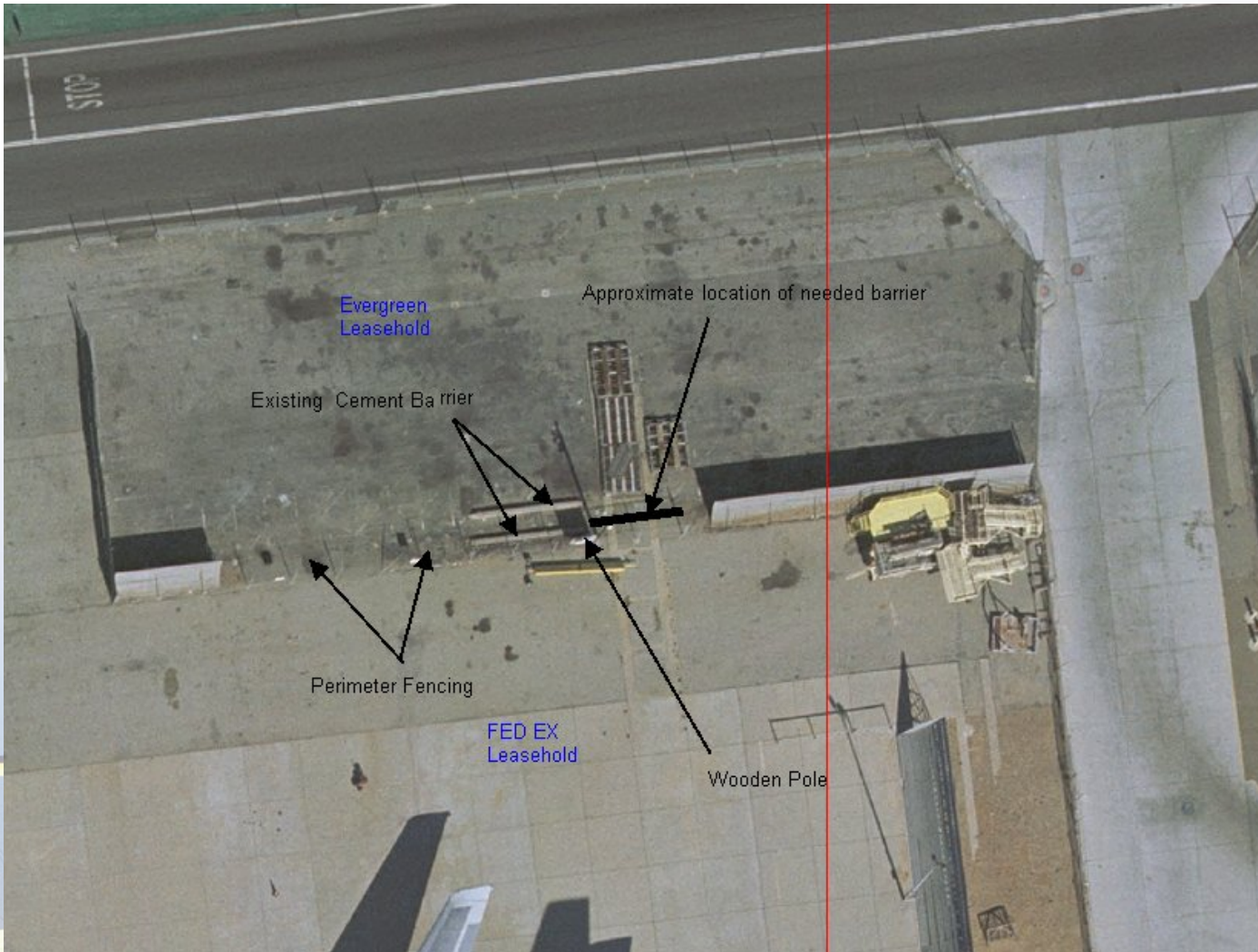
Exit

Edit

Click on images for larger picture



Plans are underway to install permanent monitor at Fed Ex



Future Location of Permanent Noise Monitor at Fed Ex



Removing existing facilities for new contact gates



Evaluating Noise Impact for Ground Run-Up

