


EDGE and the Caltex NGP

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Introduction

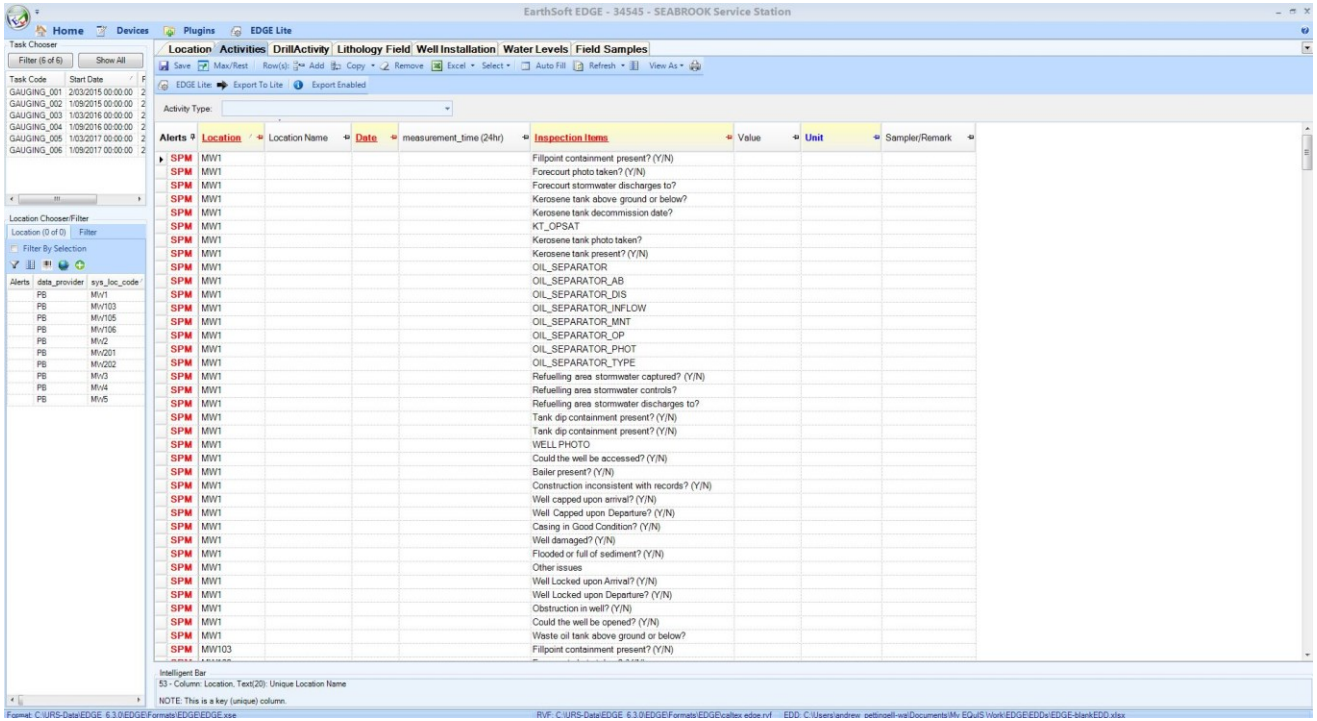
- Caltex National Gauging Program: bi-annual groundwater gauging at 701 Caltex properties across Australia for 3 years
- Driven by State regulatory compliance and contamination risk management
- Extremely large quantity of data required an innovative approach to data collection, standardisation and reporting
- Caltex operating EQuIS for management of environmental data across their estate
- URS operating EQuIS as primary environmental data management system
- EarthSoft's EDGE used to collect gauging data through a series of national road trips to all 701 sites in the program

EDGE Data Management Workflow

- Caltex provided partial database backup for all 701 sites in the program
- URS scheduled all gauging works in SPM and exported 701 EDGE EDDs for use in the field. EDDs contained:
  - Facility read-only information
  - Locations to be gauged including coordinates
  - Historical water levels from the partial db backup
  - Two activity forms: site inspection and well inspection
- Gauging program organised into routes, EDGE EDDs grouped into the different routes and distributed to field staff
- URS procured 8 HP Windows tablets supporting EDGE in the field
- Staff collected water levels, well inspection and site inspection data in EDGE onsite

EDGE Data Management Workflow

- Staff created EDD packages onsite and sent to a shared mailbox established for the program
- URS checked and uploaded each EDD to the partial backup for error checking before uploading to the Caltex database proper
- EQuIS Enterprise used for uploading EDDs en masse.



EDGE Lessons Learnt

- If fieldworks are planned in SPM, work required in EDGE is significantly reduced and provides field staff with more data support
- Choice of field device affects ability to collect data. Faster devices run EDGE better
- Ability to schedule the same plans across multiple facilities significantly reduces planning time
- EDGE cannot collect facility parameter information at the moment, site inspection info had to be recorded as location parameters