



REMOVAL OF TETRAETHYL LEAD FACILITIES

CHEVRON RICHMOND REFINERY CALIFORNIA USA

11th August 2009

Dear Neil

Crest Environmental Services in partnership with Plant Reclamation Richmond USA contracted to decontaminate and dispose of Tetraethyl Lead facilities at Chevron Richmond Refinery USA

WHO ARE CREST ENVIRONMENTAL SERVICES



Crest Environmental Services specialise in the safe handling of TEL (Tetra Ethyl Lead) and many other substances associated with the petro-chemical industry and their specialised knowledge has been called upon around the world. From the UK to Panama and from the Middle East to Australia, Crest will provide the solution, tailor made to your exacting requirements.

This further enhances Crest's ability to provide a first class customer service by developing a unique insight into the way our clients operate its various business activities and allows Crest to develop all important working relationships with managers, engineers and operators on sites. The result has been that all contracts have been delivered on time, on budget and without any lost time accidents.

What is Tetraethyl Lead

HOW WE COMPLETED THE PROJECT



The project consisted of dismantling, decontaminating and disposal of 1 x 8 Metre horizontal Tetraethyl Lead storage tank.

All associated pipe work, blending units and kerosene scrubbers were drained of contaminated liquids and removed under a cold work permit which forbids any use of heat generating equipment.

Second stage was to remove the storage tank from their base structures and to be transferred by low loading equipment to an area for safe decontamination.

Once storage tanks are sited work is then carried out gas free the vessels, this is to enable cold cutting of an access door with water cutting equipment to gain entry to remove any residues of scales and sludges.

After the vessel is free from contaminates, hot work will be used in the form of an oxygen/propane gas axe, the vessel will be hot cut into manageable sections for decontamination of the steel by way of de-scaling and heat treating of the steel, all pipe-work is cut into 1 metre sections and stacked ready for decontamination, the pipe-work is manually de-scaled and heat treated, this process then converts the lead from its organic stage to inorganic for safe disposal at a certified smelting facility.

Both remediation sites are cleaned and tested and certified before handing back to the refinery.

Crests work is carried out under CLAW (Control of Lead at Work 2002) with daily safety toolbox talks, HSE audits and daily atmosphere analysis.

The project was successfully completed without any Safety, Health or Environmental incidents.

Links To Crest Environmental Services

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Who Are Plant Reclamation



Plant Reclamation has been in business since 1972. We are one of the top specialty contractors in the United States concentrating in industrial demolition, abatement, remediation and asset recovery. The company conducts work both domestically and internationally.

Plant Reclamation's mission is to provide our clients with the safest, most economical and environmentally responsible projects. We believe teamwork is an integral component of our overall success. We look forward to being of service to you.

The company specializes in performing:

- ◆ Decommissioning
- ◆ Dismantling
- ◆ Demolition

- ❖ Strategic equipment extraction
- ❖ Site clearance and remediation
- ❖ Incident response
- ❖ Asset recovery
- ❖ Recycling
- ❖ Budgeting, Planning and Management

[Watch the Demolition Video](#)

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Health And Safety

Health and safety is a top priority for Crest Environmental Services, Any personnel working within areas where there may be lead emissions need to be verified as medically fit and well, not least showing they can wear the protective equipment without hindrance. Prior to the start of the project all personnel will give blood and urine samples for analysis to establish benchmark figures. During the project at weekly intervals, urine samples will be taken and analyzed for presence of lead as a means of monitoring the effectiveness of the procedures.

[Link to Health In Business](#)

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