File

Mobil Oil Corporation

3800 WEST ALAMEDA AVENUE, SUITE 700
BURBANK, CALIFORNIA 91505-4331

01

November 2, 1988

Mr. Rafat Shahid
Alameda County
Department of Environmental Health
470 27th Street, Room 324
Oakland, California 94612

MOBIL OIL CORPORATION
S/S #10-EYD
1541 PARK STREET
ALAMEDA, CALIFORNIA

Dear Mr. Shahid:

Attached is the quarterly report for the subject location.

Based on the results of the monitoring program, Mobil will propose additional monitoring wells to define the extent of the contamination.

If you have any questions, contact Chris Mitchell at (818) 953-2519.

Sincerely,

Chris J. Mitchell
for R. J. Edwards
Region Environmental Manager

CTM:ars
attachment
18900

cc: Mr. Peter Johnson
Regional Water Quality Con. Bd.
1111 Jackson Street, Room 6040
Oakland, California 94607

Mr. Wyman Hong
Alameda County
Flood Control Department
6997 Parkside Drive
Pleasanton, California 94566

167. *Chlorine trifluoride (T,C,F,R)
168. *Chloroacetaldehyde (T,C)
169. *alpha-Chloroacetophenone, Phenyl chloromethyl ketone (T)
190. *Chloroacetyl chloride (T,C,R)
191. Chlorobenzene (T,F)
192. para-Chlorobenzoyl peroxide (F,R)
193. *ortho-Chlorobenzylidene malonitrile, OCMB (T)
194. Chloroform, Trichloromethane (T)
195. *Chloropicrin, Chlorpicrin, Trichloronitromethane (T)
196. *Chlorosulfonic acid (T,C,F,R)
197. Chloro-ortho-toluidine, 2-Amino-4-chlorotoluene (T)
198. Chromic acid, Chromium trioxide, Chromic anhydride (T,C,F)
199. Chromic chloride, Chromium trichloride (T)
200. Chromic fluoride, Chromium trifluoride (T)
201. Chromic hydroxide, Chromium hydroxide (T)
202. Chromic oxide, Chromium oxide (T)
203. Chromic sulfate, Chromium sulfate (T)
204. Chromium compounds (T,C,F)
205. *Chromyl chloride, Chlorochromic anhydride (T,C,F,R)
206. Cobalt (powder) (T,F)
207. Cobalt compounds (T)
208. Cobaltous bromide, Cobalt bromide (T)
209. Cobaltous chloride, Cobalt chloride (T)
210. Cobaltous nitrate, Cobalt nitrate (T,F)
211. Cobaltous resinate, Cobalt resinate (T,F)
212. Cobaltous sulfate, Cobalt sulfate (T)
213. Cocculus, Fishberry, Picrotoxin (T)
215. *Copper acetoarsenite, Paris green (T)
216. Copper acetylide (T,R)
217. *Copper arsenate, Cupric arsenate (T)
218. *Copper arsenite, Cupric arsenite (T)
219. Copper chloride, Cupric chloride (T)
220. Copper chlorotetrazole (T,R)
221. Copper compounds (T)
222. *Copper cyanide, Cupric cyanide (T)
223. Copper nitrate, Cupric nitrate (T,F,R)
224. Copper sulfate, Cupric sulfate, Blue vitriol (T)
225. *Coroxon; ortho,ortho-Diethyl-ortho-(3-chloro-4-methylcoumarin-7-yl) phosphate (T)
226. *Coumafuryl, FUMARIN, 3-[1-(2-Furanyl)-3-oxobutyl]-4-hydroxy-2H-1-benzopyran-2-one (T)
227. *Coumatetralyl, BAYER 25634, RACUMIN 57, 4-Hydroxy-3-(1,2,3,4-tetrahydro-1-naphthalenyl)-2H-1-benzopyran-2-one (T)
228. *Crimidine, CASTRIX, 2-Chloro-4-dimethylamino-6-methylpyrimidine (T)
229. *Crotonaldehyde, 2-Butenal (T)
230. Cumene, Isopropyl benzene (T,F)
231. Cumene hydroperoxide; alpha,alpha-Dimethylbenzyl hydroperoxide (T,F)

232. Cupriethylene diamine (T)
233. *Cyanide salts (T)
234. Cyanoacetic acid, Malonic nitrile (T)
235. *Cyanogen (T,F,R)
236. Cyanogen bromide, Bromine cyanide (T)
237. Cyanuric triazide (T,R)
238. Cycloheptane (T,F)
239. Cyclohexane (T,F)
240. Cyclohexanone peroxide (F)
241. *Cyclohexenyltrichlorosilane (T,C,R)
242. *Cyclohexenimide, ACTIDIONE (T)
243. *Cyclohexyltrichlorosilane (T,C,R)
244. Cyclopentane (T,F)
245. Cyclopentanol (F)
246. Cyclopentene (T,F)
247. DDT; 1,1,1-Trichloro-2,2-bis(chlorophenyl) ethane (T)
248. *DDVP, Dichlorvos, VAPONA, Dimethyl dichlorovinyl phosphate (T)
249. *Decaborane (T,F,R)
250. DECALIN, Decahydronaphthalene (T)
251. *Demeton, SYSTOX (T)
252. *Demeton-S-methyl sulfone, METAISOSYSTOX-SULFON, S-[2-(ethylsulfonyl) ethyl] O,O-dimethyl phosphorothioate (T)
253. Diazodinitrophenol, DDNP, 2-Diazo-4,6-dinitrobenzene-1-oxide (T,R)
254. *Diborane, Diboron hexahydride (T,R)
255. *1,2-Dibromo-3-chloropropane, DBCP, FUMAZONE, NEMAGON (T)
256. n-Dibutyl ether, Butyl ether (and isomers) (T,F)
257. Dichlorobenzene (ortho, meta, para) (T)
258. *3,3-Dichlorobenzidine and salts, DCB (T)
259. 1,2-Dichloroethylene; 1,2-Dichloroethene (T,F)
260. Dichloroethyl ether, Dichloroether (T,F)
261. Dichloroisocyanuric acid, Dichloro-S-triazine-2,4,6-trione (T,F)
262. Dichloromethane, Methylene chloride (T)
263. *2,4-Dichlorophenoxyacetic acid; 2,4-D (T)
264. 1,2-Dichloropropane, Propylene dichloride (T,F)
265. 1,3-Dichloropropylene; 1,3-Dichloropropene (T,F)
266. Dicumyl peroxide (F,T)
267. *Dieldrin; 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo, exo-5,8-dimethanonaphthalene (T)
268. *Diethylaluminum chloride, Aluminum diethyl monochloride, DEAC (F,R)
269. Diethylamine (T,F)
270. *Diethyl chlorovinyl phosphate, Compound 1836 (T)
271. *Diethyldichlorosilane (T,C,F,R)
272. Diethylene glycol dinitrate (T,R)
273. Diethylene triamine (T)
274. *O,O-Diethyl-S-(isopropylthiomethyl) phosphorodithioate (T)
275. *Diethylzinc, Zinc ethyl (C,F,R)
276. *Difluorophosphoric acid (T,C,R)
277. *Diglycidyl ether, bis(2,3-Epoxypropyl) ether (T)
278. Diisopropylbenzene hydroperoxide (T,F)

279. Diisopropyl peroxydicarbonate, Isopropyl percarbonate (T,C,F,R)
280. *Dimefox, HANANE, PEKTOX 14, Tetramethylphosphorodiamidic fluoride (T)
281. Dimethylamine, DMA (T,F)
282. *Dimethylaminoazobenzene, Methyl yellow (T)
283. *Dimethyldichlorosilane, Dichlorodimethylsilane (T,C,F,R)
284. 2,5-Dimethylhexane-2,5-Dihydroperoxide (F)
285. *1,1-Dimethylhydrazine, UDMH (T,F)
286. *Dimethyl sulfate, Methyl sulfate (T)
287. *Dimethyl sulfide, Methyl sulfide (T,F,R)
288. 2,4-Dinitroaniline (T)
289. *Dinitrobenzene (ortho, meta, para) (T,R)
290. Dinitrochlorobenzene, 1-Chloro-2,4-dinitrobenzene (T,R)
291. *4,6-Dinitro-ortho-cresol, DNPC, SINOX, EGETOL 30 (T)
292. *Dinitrophenol (2,3-;2,4-;2,5-Isomers) (T,R)
293. 2,4-Dinitrophenylhydrazine (T,F,R)
294. Dinitrotoluene (2,4-;3,4-;3,5-Isomers) (T,F,R)
295. *DINOSEB; 2,4-Dinitro-6-sec-butylphenol (T)
296. 1,4-Dioxane; 1,4-Diethylene dioxide (T,F,R)
297. *Dioxathion, DELNAV,S,S-1,4-dioxane-2,3-diyl bis(O,O-diethyl phosphorodithioate) (T)
298. Dipentaerythritol hexanitrate (R)
299. *Diphenyl, Biphenyl, Phenylbenzene (T)
300. Diphenylamine, DPA, N-Phenylaniline (T)
301. *Diphenylamine chloroarsine, Phenarsazine chloride (T)
302. *Diphenyldichlorosilane (T,C,R)
303. Dipicrylamine, Hexanitrodiphenyl amine (T,R)
304. Dipropyl ether (T,F)
305. *Disulfoton, DI-SYSTON;O,O-Diethyl S-[2-(ethylthio) ethyl] phosphorodithioate (T)
306. *Dodecyltrichlorosilane (T,C,R)
307. *DOWCO-139, ZECTRAN, Mexacarbate, 4-(Dimethylamino)-3,5-dimethylphenyl methylcarbamate (T)
309. *DYFONATE, Fonofos, O-Ethyl-S-phenylethyl phosphonodithioate (T)
310. *Endosulfan, THIODAN; 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzo-dioxathiepin-3-oxide (T)
311. *Endothal, 7-Oxabicyclo [2.2.1]heptane-2,3-dicarboxylic acid (T)
312. *Endothion, EXOTHION, S-[(5-Methoxy-4-oxo-4H-pyran-2-yl)-methyl] O,O-dimethyl phosphorothioate (T)
313. *Endrin; 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4,4a,5,6,7,8,8a-octahydro-1,4-endo-endo-5,8-dimethanonaphthalene (T)
314. Epichlorohydrin, Chloropropylene oxide (T,F)
315. *EPN; O-Ethyl O-para-nitrophenyl phenylphosphonothioate (T)
316. *Ethion, NIALATE;O,O,O',O'-Tetraethyl-S,S-methylenediphosphorodithioate (T)
317. Ethyl acetate (T,F)
318. Ethyl alcohol, Ethanol (T,F)
319. Ethylamine, Aminoethane (T,F)

KAPREALIAN ENGINEERING, INC.
Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 - 9100 (707) 746 - 6915

KEI-P87-097B-1
October 27, 1988

Mobil Oil Corporation
P. O. Box 127
Richmond, CA 94807

Attention: Mr. Moody Younger

Re: Quarterly Report
Mobil S/S #10-EYD
1541 Park Avenue
Alameda, California

Dear Mr. Younger:

This report presents the results of the first period of monitoring and sampling of the existing wells by Kaprealian Engineering, Inc. (KEI) at the referenced site per our proposal dated March 4, 1988. This report covers the work performed by KEI from July through October, 1988.

BACKGROUND

KEI's field activities at the site began in September, 1987, when three underground gasoline storage tanks and one waste oil tank were removed from the site. KEI collected native soil and ground water samples. Eight soil samples from the fuel tank pit had total petroleum hydrocarbon (TPH) as gasoline levels ranging from <1.0 to 3200 ppm. The waste oil sample had non-detectable levels of TPH as diesel and 150 ppm total oil and grease (TOG). The ground water sample had 6.3 ppm benzene. All analyses were performed by HAZCAT Mobile Organics Lab.

To investigate the degree and extent of ground water contamination, KEI installed three monitoring wells in February, 1988. Water samples collected from the three wells had benzene levels of <0.5 ppb for MW-2 and MW-3 and 2000 ppb from MW-1. Analyses were performed by HAZCAT Mobile Organics Lab. Based on these results, KEI proposed a six month program of monthly monitoring and quarterly sampling.

FIELD ACTIVITIES

The three wells were monitored three times and sampled once during the period. During monitoring, the wells were checked for depth to water, using an electronic sounder, odor, and visual presence of floating product. Monitoring data are summarized in Table 1. No floating product was noted in any of the wells during the period.

320. Ethylbenzene, Phenylethane (T,F)
321. Ethyl butyrate, Ethyl butanoate (F)
322. Ethyl chloride, Chloroethane (T,F)
323. *Ethyl chloroformate, Ethyl chlorocarbonate (T,C,F,R)
324. *Ethyldichloroarsine, Dichloroethylarsine (T,R)
325. *Ethyldichlorosilane (T,C,F,R)
326. *Ethylene cyanohydrin, beta-Hydroxypropionitrile (T,R)
327. Ethylene diamine (T)
328. Ethylene dibromide; 1,2-Dibromoethane (T)
329. Ethylene dichloride; 1,2-Dichloroethane (T,F)
330. *Ethyleneimine, Aziridine, EI (T,F,R)
331. Ethylene oxide, Epoxyethane (T,F,R)
332. Ethyl ether, Diethyl ether (F,R)
333. Ethyl formate (T,F)
334. *Ethyl mercaptan, Ethanethiol (T,F,R)
335. Ethyl nitrate (F,R)
336. Ethyl nitrite (F,R)
337. *Ethylphenyldichlorosilane (T,C,R)
338. Ethyl propionate (F)
339. *Ethyltrichlorosilane (T,R)
340. *Fensulfothion, BAYER 25141, DASANIT, O,O-Diethyl-O-[4-(methylsulfinyl)phenyl] phosphorothioate (T)
341. *Ferric arsenate (T)
342. Ferric chloride, Iron (III) chloride (T,C)
343. *Ferrous arsenate, Iron arsenate (T)
344. *Fluoboric acid, Fluoroboric acid (T,C)
345. Fluoride salts (T)
346. *Fluorine (T,C,R)
347. *Fluoroacetanilide, AFL 1082 (T)
348. *Fluoroacetic acid and salts, Compound 1080 (T)
349. *Fluorosulfonic acid, Fluosulfonic acid (T,C,R)
350. Formaldehyde, Methanal (T,F)
351. Formic acid, Methanoic acid (T,C)
352. Fulminate of mercury, Mercuric cyanate (T,R)
353. *FURADAN, NIA 10,242, Carbofuran; 2,3-Dihydro-2,2-dimethyl-7-benzofuranylmethylcarbamate (T)
354. Furan, Furfuran (T,F,R)
355. Gasoline (F)
356. *GB, O-Isopropyl methyl phosphoryl fluoride (T)
357. Glutaraldehyde (T)
358. Glycerolmonolactate trinitrate (R)
359. Glycol dinitrate, Ethylene glycol dinitrate (R)
360. Gold fulminate, Gold cyanate (R)
361. Guanidine nitrate (F,R)
362. Guanyl nitrosaminoguanylidene hydrazine (R)
363. *Guthion; O,O-Dimethyl-S-4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl phosphorodithioate (T)
364. Hafnium (F,T,R)
365. *Heptachlor; 1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene (T)

366. n-Heptane (and isomers) (T,F)
367. 1-Heptene (and isomers) (T,F)
368. *Hexadecyltrichlorosilane (T,C,R)
369. Hexaethyl tetraphosphate, HETP (T)
370. Hexafluorophosphoric acid (T,C)
371. Hexamethylenediamine; 1,6-Diaminohexane (T)
372. n-Hexane (and isomers) (T,F)
373. 1-Hexene (and isomers) (T,F)
374. n-Hexylamine, 1-Aminohexane (and isomers) (T,F)
375. *Hexyltrichlorosilane (T,C,R)
376. *Hydrazine, Diamine (T,F)
377. Hydrazine azide (T,R)
378. Hydrazoic acid, Hydrogen azide (T,R)
379. *Hydriodic acid, Hydrogen iodide (T,C,R)
380. *Hydrobromic acid, Hydrogen bromide (T,C,R)
381. *Hydrochloric acid, Hydrogen chloride, Muriatic Acid (T,C,R)
382. *Hydrocyanic acid, Hydrogen cyanide (T,F,R)
383. *Hydrofluoric acid, Hydrogen fluoride (T,C,R)
384. Hydrofluosilicic acid, Fluosilicic acid (T,C)
385. Hydrogen peroxide (T,C,F,R)
386. *Hydrogen selenide (T,F)
387. *Hydrogen sulfide (T,F)
388. *Hypochlorite compounds (T,C,F,R)
389. Indium (T)
390. Indium compounds (T)
391. Iodine monochloride (T,C,R)
392. Isooctane; 2,2,4-Trimethylpentane (T,F)
393. Isooctene (mixture of isomers) (F)
394. Isopentane, 2-Methylbutane (F)
395. Isoprene, 2-Methyl-1,3-butadiene (T,F,R)
396. Isopropanol, Isopropyl alcohol, 2-Propanol (T,F)
397. Isopropyl acetate (T,F)
399. Isopropylamine, 2-Aminopropane (T,F)
400. Isopropyl chloride, 2-Chloropropane (F)
401. Isopropyl ether, Diisopropyl ether (F,R)
402. Isopropyl mercaptan, 2-Propanethiol (T,F)
404. *meta-Isopropylphenyl-N-methylcarbamate, Ac 5,727 (T)
405A. *Kepone; 1,1a,3,3a,4,5,5,5a,5b,6-Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalen-2-one, Chlorecone (T)
405B. Lauroyl peroxide, Di-n-dodecyl peroxide (T,C,F,R)
406. Lead compounds (T)
407. Lead acetate (T)
408. *Lead arsenate, Lead orthoarsenate (T)
409. *Lead arsenite (T)
410. Lead azide (T,R)

411. Lead carbonate (T)
412. Lead chlorite (T,R)
413. *Lead cyanide (T)
414. Lead 2,4-dinitroresorcinate (T,R)
415. Lead mononitroresorcinate (T,R)
416. Lead nitrate (T,F)
417. Lead oxide (T)
418. Lead styphnate, Lead trinitroresorcinate (T,R)
419. *Lewisite, beta-Chlorovinyldichloroarsine (T)
420. *Lithium (C,F,R)
421. *Lithium aluminum hydride, LAH (C,F,R)
422. *Lithium amide (C,F,R)
423. *Lithium ferrosilicon (F,R)
424. *Lithium hydride (C,F,R)
425. *Lithium hypochlorite (T,C,F,R)
426. Lithium peroxide (C,F,R)
427. Lithium silicon (F,R)
428. *London purple, Mixture of arsenic trioxide, aniline, lime, and ferrous oxide (T)
429. *Magnesium (F,R)
430. *Magnesium arsenate (T)
431. *Magnesium arsenite (T)
432. Magnesium chlorate (F,R)
433. Magnesium nitrate (F,R)
434. Magnesium perchlorate (T,F,R)
435. Magnesium peroxide, Magnesium dioxide (F)
436. *Maleic anhydride (T)
437. Manganese (powder) (F)
438. Manganese acetate (T)
439. *Manganese arsenate, Manganous arsenate (T)
440. Manganese bromide, Manganous bromide (T)
441. Manganese chloride, Manganous chloride (T)
442. Manganese methylcyclopentadienyl tricarbonyl (T)
443. Manganese nitrate, Manganous nitrate (T,F)
444. Mannitol hexanitrate, Nitromannite (R)
445. *MECARBAM;O,O-Diethyl S-(N-ethoxycarbonyl N-methylcarbamoylmethyl) phosphorodithioate (T)
446. *Medinoterb acetate, 2-tert-Butyl-5-methyl-4,6-dinitrophenyl acetate (T)
447. para-Menthane hydroperoxide, Paramenthane hydroperoxide (F)
448. Mercuric acetate, Mercury acetate (T)
449. Mercuric ammonium chloride, Mercury ammonium chloride (T)
450. Mercuric benzoate, Mercury benzoate (T)
451. Mercuric bromide, Mercury bromide (T)
452. *Mercuric chloride, Mercury chloride (T)
453. *Mercuric cyanide, Mercury cyanide (T)
454. Mercuric iodide, Mercury iodide (T)
455. Mercuric nitrate, Mercury nitrate (T,F)
456. Mercuric oleate, Mercury oleate (T)

However, the ground water in MW-1 had a strong odor during the October monitoring.

Water samples were taken from the wells on October 12, 1988. Prior to sampling, the wells were purged at least five well volumes using and acrylic surface bailer. Samples were then collected using a clean Teflon bailer. Samples were decanted into clean VOA vials which were sealed with Teflon-lined screw caps and stored on ice until delivery to a state certified laboratory.

LABORATORY ANALYSES

The water samples were analyzed at Sequoia Analytical Laboratory in Redwood City for TPH as gasoline, benzene, toluene, xylene and ethylbenzene (BTX&E) concentrations using EPA methods 5030, 8020 and 8015. Well MW-3, adjacent to the waste oil tank, was not analyzed for waste oil constituents because non-detectable levels were found in the first sampling in February, 1988. The results of the analyses are summarized in Table 2. Copies of the analytical results and chain of custody forms are attached to this report.

DISCUSSIONS AND RECOMMENDATIONS

The analytical results show non-detectable levels of TPH as gasoline and BTX&E in wells MW-2 and MW-3, unchanged from the previous sampling in February, 1988. Well MW-1 has 180 ppb benzene and 14,000 ppb TPH as gasoline, which represents a decrease in the levels found in the February, 1988 sampling (benzene of 2,000 ppb and TPH of 95,000 ppb).

Based on the persistent elevated level of benzene found in MW-1, KEI recommends continued monitoring, sampling, and analysis of the existing wells. KEI also recommends installation of additional monitoring wells to continue investigation of the extent of ground water contamination, per the Regional Water Quality Control Board guidelines.

A copy of this report should be sent to Mr. Wyman Hong of the Alameda County Flood Control District, to the Alameda County Department of Health, and to the Regional Water Quality Control Board, San Francisco Bay Region.

457. Mercuric oxide (red and yellow) (T,F)
458. Mercuric oxycyanide (T,R)
459. Mercuric-potassium iodide, Mayer's reagent (T)
460. Mercuric salicylate, Salicylated mercury (T)
461. Mercuric subsulfate, Mercuric dioxysulfate (T)
462. Mercuric sulfate, Mercury sulfate (T)
463. Mercuric thiocyanide, Mercury thiocyanate (T)
464. Mercurol, Mercury nucleate (T)
465. Mercurous bromide (T)
466. Mercurous gluconate (T)
467. Mercurous iodide (T)
468. Mercurous nitrate (T,R)
469. Mercurous oxide (T)
470. Mercurous sulfate, Mercury bisulfate (T)
472. *Mercury (T)
473. *Mercury compounds (T)
474. Metal carbonyls (T)
475. *Metal hydrides (F,R)
476. Metal powders (T,F)
477A. *Methomyl, LANNATE, S-Methyl-N-[(methyl-carbamoyl) oxy) thioacetimidate (T)
477B. *Methoxychlor; 1,1,1-Trichloro-2, 2-bis(p-methoxyphenyl) ethane, CHEMFLORM, MARLATE (T)
478. *Methoxyethylmercuric chloride, AGALLOL, ARETAN (T)
479. Methyl acetate (T,F)
480. Methyl acetone (Mixture of acetone, methyl acetate, and methyl alcohol) (T,F)
481. Methyl alcohol, Methanol (T,F)
482. *Methylaluminum sesquibromide (F,R)
483. *Methylaluminum sesquichloride (F,R)
484. Methylamine, Aminomethane (T,F)
485. N-Methylaniline (T)
486. *Methyl bromide, Bromomethane (T)
487. 2-Methyl-1-butene (F)
488. 3-Methyl-1-butene (F)
489. Methyl butyl ether (and isomers) (T,F)
490. Methyl butyrate (and isomers) (T,F)
491. Methyl chloride, Chloromethane (T,F)
492. *Methyl chloroformate, Methyl chlorocarbonate (T,F,R)
493. *Methyl chloromethyl ether, CMME (T,F)
494. Methylcyclohexane (T,F)
495. *Methyldichloroarsine (T)
496. *Methyldichlorosilane (T,F,R)
497. *4,4-Methylene bis(2-chloroaniline), MOCA (T)
498. Methyl ethyl ether (T,F)
499. Methyl ethyl ketone, 2-Butanone (T,F)
500. Methyl ethyl ketone peroxide (T,F)
501. Methyl formate (T,F)
502. *Methyl hydrazine, Monomethyl hydrazine, MMH (T,F)

503. *Methyl isocyanate (T,F)
504. Methyl isopropenyl ketone, 3-Methyl-3-butene-2-one (T,F)
505. *Methylmagnesium bromide (C,F,R)
506. *Methylmagnesium chloride (C,F,R)
507. *Methylmagnesium iodide (C,F,R)
508. Methyl mercaptan, Methanethiol (T,F)
509. Methyl methacrylate (monomer) (T,F)
510. *Methyl parathion;O,O-Dimethyl-O-para-nitrophenylphosphorothioate (T)
511. Methyl propionate (F)
512. *Methyltrichlorosilane (T,C,F,R)
513. Methyl valerate, Methyl pentanoate (and isomers) (F)
514. Methyl vinyl ketone, 3-Butene-2-one (T,F)
515A. *Mevinphos, PHOSDRIN, 2-Carbomethoxy-1-methylvinyl dimethyl phosphate (T)
515B. *Mirex; 1,1a,2,2,3,3a,4,5,5,5a,5b,6-Dodecachlorooctahydro-1, 3, 4-metheno-1H-cyclobuta (cd) pentalene, Dechlorane (T)
516. *MOCAP, O-Ethyl-S,S-dipropyl phosphorodithioate (T)
517. Molybdenum (powder) (F)
518. Molybdenum trioxide, Molybdenum anhydride (T)
519. Molybdic acid and salts (T)
520. Monochloroacetic acid, Chloracetic acid, MCA (T,C)
521. Monochloroacetone, Chloroacetone, 1-Chloro-2-propanone (T)
522. Monofluorophosphoric acid (T,C)
523. Naphtha (of petroleum or coal tar origin), Petroleum ether, Petroleum naphtha (T,F)
524. Naphthalene (T,S)
525. *alpha-Naphthylamine, 1-NA (T)
526. *beta-Naphthylamine, 2-NA (T)
527. Neohexane; 2,2-Dimethylbutane (T,F)
528. Nickel (powder) (T,F)
529. Nickel acetate (T)
530. Nickel antimonide (T)
531. *Nickel arsenate, Nickelous arsenate (T)
532. *Nickel carbonyl, Nickel tetracarbonyl (T)
533. Nickel chloride, Nickelous chloride (T)
534. *Nickel cyanide (T)
535. Nickel nitrate, Nickelous nitrate (T,F,R)
536. Nickel selenide (T)
537. Nickel sulfate (T)
538. Nicotine, beta-pyridyl-alpha-N-methyl pyrrolidine (T)
539. Nicotine salts (T)
540. Nitric acid (T,C,F)
541. Nitroaniline, Nitraniline (ortho, meta, para) (T,R)
542. *Nitrobenzol, Nitrobenzene (T)
543. *4-Nitrobiphenyl, 4-NBP (T)
544. Nitro carbo nitrate (F,R)
545. Nitrocellulose, Cellulose nitrate, Guncotton, Pyroxylin, Collodion, Pyroxylin (nitrocellulose) in ether and alcohol (F,R)

546. Nitrochlorobenzene, Chloronitrobenzene (ortho,meta,para) (T)
547. Nitrogen mustard (T,C)
548. Nitrogen tetroxide, Nitrogen dioxide (T,F)
549. Nitroglycerin, Trinitroglycerin (T,F,R)
550. Nitrohydrochloric acid, Aqua regia (T,C,F)
551. *Nitrophenol (ortho, meta, para) (T)
552. *N-Nitrosodimethylamine, Dimethyl nitrosoamine (T)
553. Nitrosoguanidine (R)
554. Nitrostarch, Starch nitrate (F,R)
555. Nitroxylol, Nitroxylene, Dimethylnitrobenzene (2,4-,2,4-,2,5-isomers) (T)
556. 1-Nonene, 1-Nonylene (and isomers) (T,F)
557. *Nonyltrichlorosilane (T,R)
558. *Octadecyltrichlorosilane (T,R)
559. n-Octane (and isomers) (T,F)
560. 1-Octene, 1-Caprylene (T,F)
561. *Octyltrichlorosilane (T,R)
563. *Oleum, Fuming sulfuric acid (T,C,R)
565. Osmium compounds (T)
566. Oxalic acid (T)
567. *Oxygen difluoride (T,C,R)
568. *Para-oxon, MINTACOL,O,O-Diethyl-O-para-nitrophenyl phosphate (T)
569. *Parathion; O,O-Diethyl-O-para-nitrophenyl phosphorothioate (T)
570A. *Pentaborane (T,F,R)
570B. Pentachlorophenol, PCP, DOWICIDE 7 (T)
571. Pentaerythrite tetranitrate, Pentaerythritol tetranitrate (R)
572. n-Pentane (and isomers) (T,F)
573. 2-Pentanone, Methyl propyl ketone (and isomers) (T,F)
574. Peracetic acid, Peroxyacetic acid (T,C,F,R)
575. Perchloric acid (T,C,F,R)
576. Perchloroethylene, Tetrachloroethylene (T)
577. *Perchloromethyl mercaptan, Trichloromethylsulfenyl chloride (T)
578. Perchloryl fluoride (T,C,F)
580. Phenol, Carbolic acid (T,C)
581. *Phenyldichloroarsine (T,I)
582. Phenylenediamine, Diaminobenzene (ortho,meta,para) (T)
583. Phenylhydrazine hydrochloride (T)
584. *Phenylphenol, Orthozenol, DOWICIDE 1 (T)
585. *Phenyltrichorosilane (T,R)
586. *Phorate, THIMET; O,O-Diethyl-S- [(Ethylthio) methyl] phosphorodithioate (T)
587. *Phosfolan, CYOLAN, 2-(Diethoxyphosphinylimino)-1,3-dithiolane (T)
588. *Phosgene, Carbonyl chloride (T,R)
589. *Phosphamidon, DIMECRON, 2-Chloro-2-diethylcarbamoyl-1-methyl-vinyl dimethyl phosphate (T)
590. *Phosphine, Hydrogen phosphide (T,F)
591. Phosphoric acid (C)
592. Phosphoric anhydride, Phosphorus pentoxide (C,F)

LIMITATIONS

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory investigations. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

If you have any questions regarding this report, please do not hesitate to call me at (415) 676-9100 or (707)746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Christina L Lecce

for Jean Semansky
Geologist

Gary S. Johnson

Gary S. Johnson
Registered Geologist

License #4315
Exp. date 6/30/90

Attachment: Tables 1 and 2
Location Map
Location Plan
Laboratory analyses
Chain of custody form

593. Phosphorus (amorphous, red) (T,F,R)
594. *Phosphorus (white or yellow) (T,F,R)
595. *Phosphorus oxybromide, Phosphoryl bromide (T,C,R)
596. *Phosphorus oxychloride, Phosphoryl chloride (T,C,R)
597. *Phosphorus pentachloride, Phosphoric chloride (T,C,F,R)
598. *Phosphorus pentasulfide, Phosphoric sulfide (T,C,F,R)
599. *Phosphorus sesquisulfide, Tetraphosphorus trisulfide (T,C,F,R)
600. *Phosphorus tribromide (T,C,R)
601. *Phosphorus trichloride (T,C,R)
602. Picramide, Trinitroaniline (T,R)
603. Picric acid, Trinitrophenol (T,R)
604. Picryl chloride, 2-Chloro-1,3,5-trinitrobenzene (T,R)
605. *Platinum compounds (T)
606. *Polychlorinated biphenyls, PCB, Askarel, AROCLOR, CHLOREXTOL, INERTEEN, PYRANOL (T)
607. Polyvinyl nitrate (F,R)
608. POTASAN; O,O-Diethyl-O-(4-methylumbelliferone) phosphorothioate (T)
609. *Potassium (C,F,R)
610. *Potassium arsenate (T)
611. *Potassium arsenite (T)
612. *Potassium bifluoride, Potassium acid fluoride (T,C)
613. Potassium binoxalate, Potassium acid oxalate (T)
614. Potassium bromate (T,F)
615. *Potassium cyanide (T)
616. Potassium dichloroisocyanurate (T,F)
617. Potassium dichromate, Potassium bichromate (T,C,F)
619. Potassium fluoride (T)
620.* Potassium hydride (C,F,R)
621. Potassium hydroxide, Caustic potash (T,C)
622. Potassium nitrate, Saltpeter (F,R)
623. Potassium nitrite (F,R)
624. Potassium oxalate (T)
625. Potassium perchlorate (T,F,R)
626. Potassium permanganate (T,C,F)
627. Potassium peroxide (C,F,R)
628. Potassium sulfide (T,F)
629. *Propargyl bromide, 3-Bromo-1-propyne (T,F)
630. *beta-Propiolactone, BPL (T)
631. Propionaldehyde, Propanal (T,F)
632. Propionic acid, Propanoic acid (T,C,F)
633. n-Propyl acetate (T,F)
634. n-Propyl alcohol, 1-Propanol (T,F)
635. n-Propylamine (and isomers) (T,F)
636. *Propyleneimine, 2-Methylaziridine (T,F)
637. Propylene oxide (T,F)
638. n-Propyl formate (T,F)
639. n-Propyl mercaptan, 1-Propanethiol (T,F)

640. *n-Propyltrichlorosilane (T,C,F,R)
641. *Protheate, FOSTION, FAC; O,O-Diethyl-S-carboethoxyethyl phosphorodithioate (T)
642. Pyridine (T,F)
643. *Pyrosulfuryl chloride, Disulfuryl chloride (T,C,R)
644. *Quinone; 1,4-Benzoquinone (T)
645. Raney nickel (F)
646. *Schradan, Octamethyl pyrophosphoramide, OMPA (T)
647A. *Selenium (T)
647B. *Selenium compounds (T)
648. *Selenium fluoride (T)
649. *Selenous acid, Selenious acid and salts (T)
650. *Silicon tetrachloride, Silicon chloride (T,C,R)
651. *Silver acetylide (T,R)
652. Silver azide (T,R)
653. Silver compounds (T)
654. Silver nitrate (T)
655. Silver styphnate, Silver trinitroresorcinate (T,R)
656. Silver tetrazene (T,R)
657. *Sodium (C,F,R)
658. Sodium aluminate (C)
659. *Sodium aluminum hydride (C,F,R)
660. *Sodium amide, Sodamide (C,F,R)
661. *Sodium arsenate (T)
662. *Sodium arsenite (T)
663. Sodium azide (T,R)
664. *Sodium bifluoride, Sodium acid fluoride (T,C)
665. Sodium bromate (T,F)
666. *Sodium cacodylate, Sodium dimethylarsenate (T)
667. Sodium carbonate peroxide (F)
668. Sodium chlorate (T,F)
669. Sodium chlorite (T,F)
670. Sodium chromate (T,C)
671. *Sodium cyanide (T)
672. Sodium dichloroisocyanurate (F)
673. Sodium dichromate, Sodium bichromate (T,C,F)
674. Sodium fluoride (T)
675. *Sodium hydride (T,C,F,R)
676. Sodium hydrosulfite, Sodium hyposulfite (F)
677. Sodium hydroxide, Caustic soda, Lye (T,C)
678. *Sodium hypochlorite (T,F,R)
679. *Sodium methylate, Sodium methoxide (C,F,R)
680. Sodium molybdate (T)
681. Sodium nitrate, Soda niter (T,F,R)
682. Sodium nitrite (T,F,R)
683. Sodium oxide, Sodium monoxide (T,C)
684. Sodium perchlorate (T,F,R)
685. Sodium permanganate (T,F)
686. *Sodium peroxide (T,F,R)

687. Sodium picramate (T,F,R)
688. *Sodium potassium alloy, NaK,Nack (C,F,R)
689. *Sodium selenate (T)
690. Sodium sulfide, Sodium hydrosulfide (T,F)
691. Sodium thiocyanate, Sodium sulfocyanate (T)
692. Stannic chloride, Tin tetrachloride (T,C)
693. *Strontium arsenate (T)
694. Strontium nitrate (T,F,R)
695. Strontium peroxide, Strontium dioxide (F,R)
696. *Strychnine and salts (T)
697. Styrene, Vinylbenzene (T,F)
698. Succinic acid peroxide (T,F)
699. Sulfide salts (soluble) (T)
700. *Sulfotepp, DITHIONE, BLADAFUM, Tetraethyl dithiopyrophosphate, TEDP (T)
701. *Sulfur chloride, Sulfur monochloride (T,C,R)
702. *Sulfur mustard (T,C,R)
703. *Sulfur pentafluoride (T,C)
704. Sulfur trioxide, Sulfuric anhydride (T,C,F)
705. Sulfuric acid, Oil of vitriol, Battery acid (T,C)
706. Sulfurous acid (T,C)
707. *Sulfuryl chloride, Sulfonyl chloride (T,C,R)
708. *Sulfuryl fluoride, Sulfonyl fluoride (T,C,R)
709. *SUPRACIDE, ULTRACIDE, S-[(5-Methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl) methyl] -O,O-dimethyl phosphorodithioate (T)
710. *SURECIDE, Cyanophenphos, O-para-Cyanophenyl-O-ethyl phenyl phosphonothioate (T)
711. *Tellurium hexafluoride (T,C)
712. *TELODRIN, Isobenzan; 1,3,4,5,6,7,8,8-Octachloro-1,2,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran (T)
713. *TEMIK, Aldicarb, 2-Methyl-2(methylthio) propionaldehyde-O-(methylcarbamoyl) oxime (T)
714. *2,3,7,8-Tetrachlorodibenzo-para-dioxin, TCDD, Dioxin (T)
715. sym-Tetrachloroethane (T)
717. *Tetraethyl lead, TEL (and other organic lead) (T,F)
718. *Tetraethyl pyrophosphate, TEPP (T)
719A. Tetrahydrofuran, THF (T,F)
719B. Tetrahydrophthalic anhydride, Memtetrahydrophthalic anhydride (T)
720. TETRALIN, Tetrahydronaphthalene (T)
721. Tetramethyl lead, TML (T,F)
722. *Tetramethyl succinonitrile (T)
723. *Tetranitromethane (T,F,R)
724. *Tetrasul, ANIMERT V-101; S-para-Chlorophenyl-2,4,5-trichlorophenyl sulfide (T)
725. Tetrazene, 4-Amidino-1-(nitrosamino-amidino)-1-tetrazene (T,R)
726. *Thallium (T)
727. *Thallium compounds (T)
728. *Thallous sulfate, Thallium sulfate, RATOX (T)

KEI-P87-097B-1
October 27, 1988

TABLE 1

GROUND WATER MONITORING DATA

Date	Well No.	Depth to Water (feet)	Sheen	Odor	Water Purged (gallons)
10/12/88	MW-1	10.58	none	strong	4
	MW-2	11.00	none	none	6
	MW-3	11.40	none	none	6
8/25/88	MW-1	10.33	none	none	0
	MW-2	10.83	none	none	0
	MW-3	11.25	none	none	0
7/25/88	MW-1	10.30	none	slight	15
	MW-2	11.75	none	none	8
	MW-3	11.25	none	none	19

TABLE 2

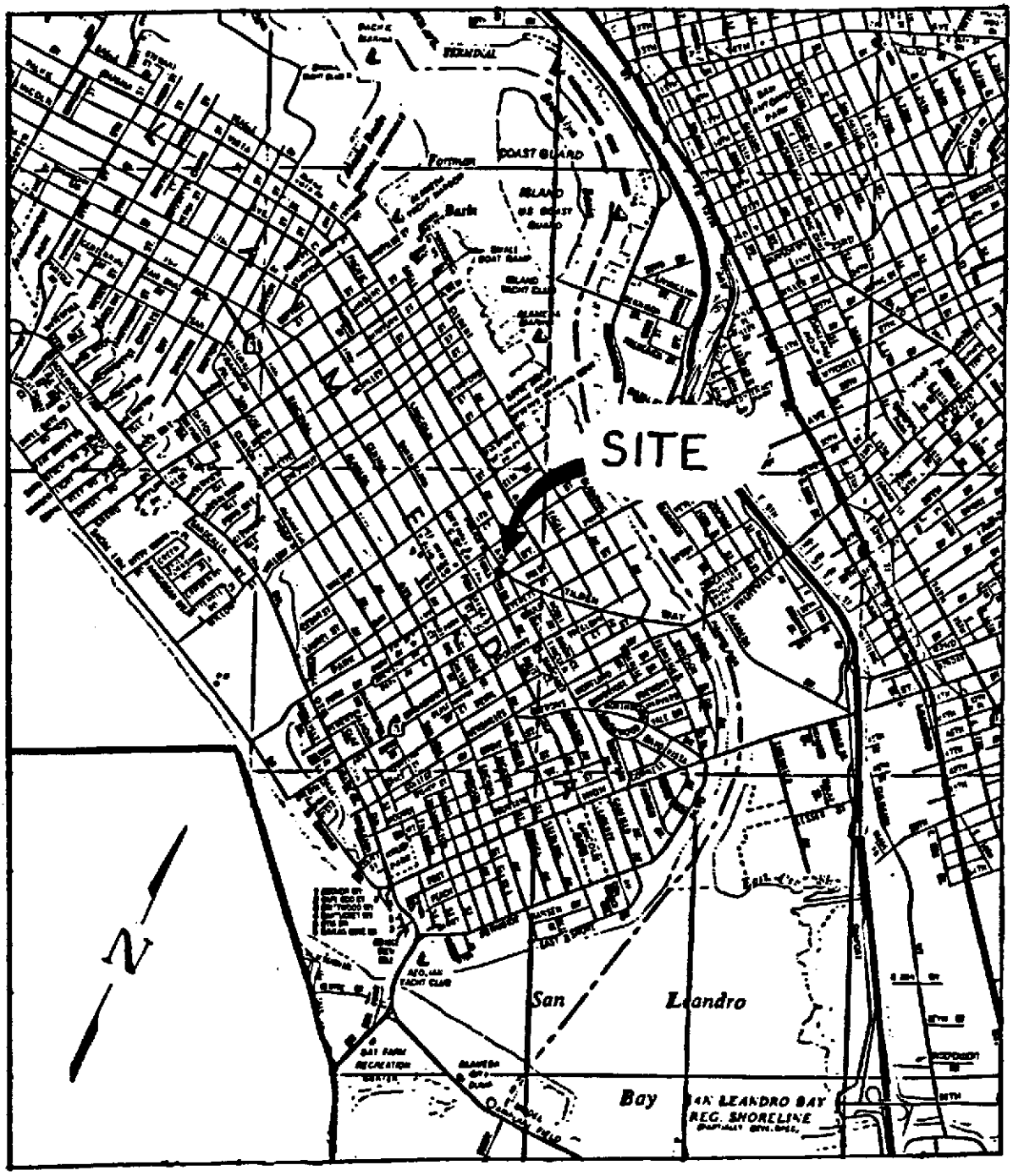
RESULTS OF GROUND WATER ANALYSES
(Analyses are in Parts Per Billion)

Date	Sample Well #	Depth (feet)	TPh as Gasoline	Benzene	Toluene	Xylene	Ethyl-benzene
10/12/88	MW-1	10.58	14,000	180	420	750	110
	MW-2	11.00	ND	ND	ND	ND	ND
	MW-3	11.40	ND	ND	ND	ND	ND
2/17/88	MW-1	9.50	95,000	2000	5900	10,000	1100
	MW-2	10.21	ND	ND	ND	ND	ND
	MW-3	10.67	ND	ND	ND	ND	ND
Detection Limits			50	0.5	0.5	0.5	0.5

729. *Thiocarbonylchloride, Thiophosgene (T,C,R)
730. *Thionazin, ZINOPHOS; O,O-Tetramethyldithiuram monosulfide (T)
731. *Thionyl chloride, Sulfur oxychloride (T,C,R)
732. *Thiophosphoryl chloride (T,C,R)
733. Thorium (powder) (F)
734. Tin compounds (organic) (T)
735. Titanium (powder) (F)
736. Titanium sulfate (T)
737. *Titanium tetrachloride, Titanic chloride (T,C,R)
738. Toluene, Methylbenzene (T,F)
739. *Toluene-2,4-diisocyanate, TDI (T,R)
740A. Toluidine, Aminotoluene (ortho,meta,para) (T)
740B. *Toxaphene, Polychlorocamphene (T)
741. *TRANID, exo-3-Chloro-endo-6-cyano-2-norbornanone-O-(methylcarbamoyl) oxime (T)
743. 1,1,2-Trichloroethane (T)
744. Trichloroethylene; Trichlorethene (T)
745. Trichloroisocyanuric acid (T,I,F)
746. *2,4,5-Trichlorophenoxyacetic acid; 2,4,5-T (T)
747. *Trichlorosilane, Silicochloroform (T,C,F,R)
748. Trimethylamine, TMA (T,F)
749. Trinitroanisole; 2,4,6-Trinitrophenyl methyl ether (T,R)
750. 1,3,5-Trinitrobenzene, TNB (T,R)
751. 2,4,6-Trinitrobenzoic acid (T,R)
752. Trinitronaphthalene, Naphtite (T,R)
753. 2,4,6-Trinitroresorcinol, Styphnic acid (T,R)
754. 2,4,6-Trinitrotoluene, TNT (T,F,R)
755. *tris(1-Aziridinyl) phosphine oxide, Triethylenephosphoramide, TEPA (T)
756. Tungstic acid and salts (T)
757. Turpentine (T,F)
758. Uranyl nitrate, Uranium nitrate (T,F,R)
759. Urea nitrate (T,F,R)
760. n-Valeraldehyde, n-Pentanal (and isomers) (T,F)
761. Vanadic acid salts (T)
762. Vanadium oxytrichloride (T,C)
763. *Vanadium pentoxide, Vanadic acid anhydride (T)
764. Vanadium tetrachloride (T,C)
765. Vanadium tetraoxide (T)
766. Vanadium trioxide, Vanadium sesquioxide (T)
767. Vanadyl sulfate, Vanadium sulfate (T)
768. Vinyl acetate (F,T)
769. *Vinyl chloride (T,F)
770. Vinyl ethyl ether (F)
771. Vinylidene chloride, VC (T,F)
772. Vinyl isopropyl ether (F)
773. *Vinyltrichlorosilane (T,C,F,R)
774. VX, O-Ethyl methyl phosphoryl N,N-diisopropyl thiocholine (T)
775. *WEPSYN 155, WP 155, Triamiphos, para-(5-Amino-3-phenyl-1H-1,2,4-triazol-1-yl)-N,N,N',N'-tetramethyl phosphonic diamide (T)

776. Xylene, Dimethylbenzene (ortho,meta,para) (T,F)
777. Zinc (powder) (F)
778. Zinc ammonium nitrate (T,F)
779. *Zinc arsenate (T)
780. *Zinc arsenite (T)
781. Zinc chloride (T,C)
782. Zinc compounds (T)
783. *Zinc cyanide (T)
784. Zinc nitrate (T,F,R)
785. Zinc permanganate (T,F)
786. Zinc peroxide, Zinc dioxide (T,F,R)
787. *Zinc phosphide (T,F,R)
788. Zinc sulfate (T)
789. Zirconium (powder) (F)
790. *Zirconium chloride, Zirconium tetrachloride (T,C,R)
791. Zirconium picramate (F)

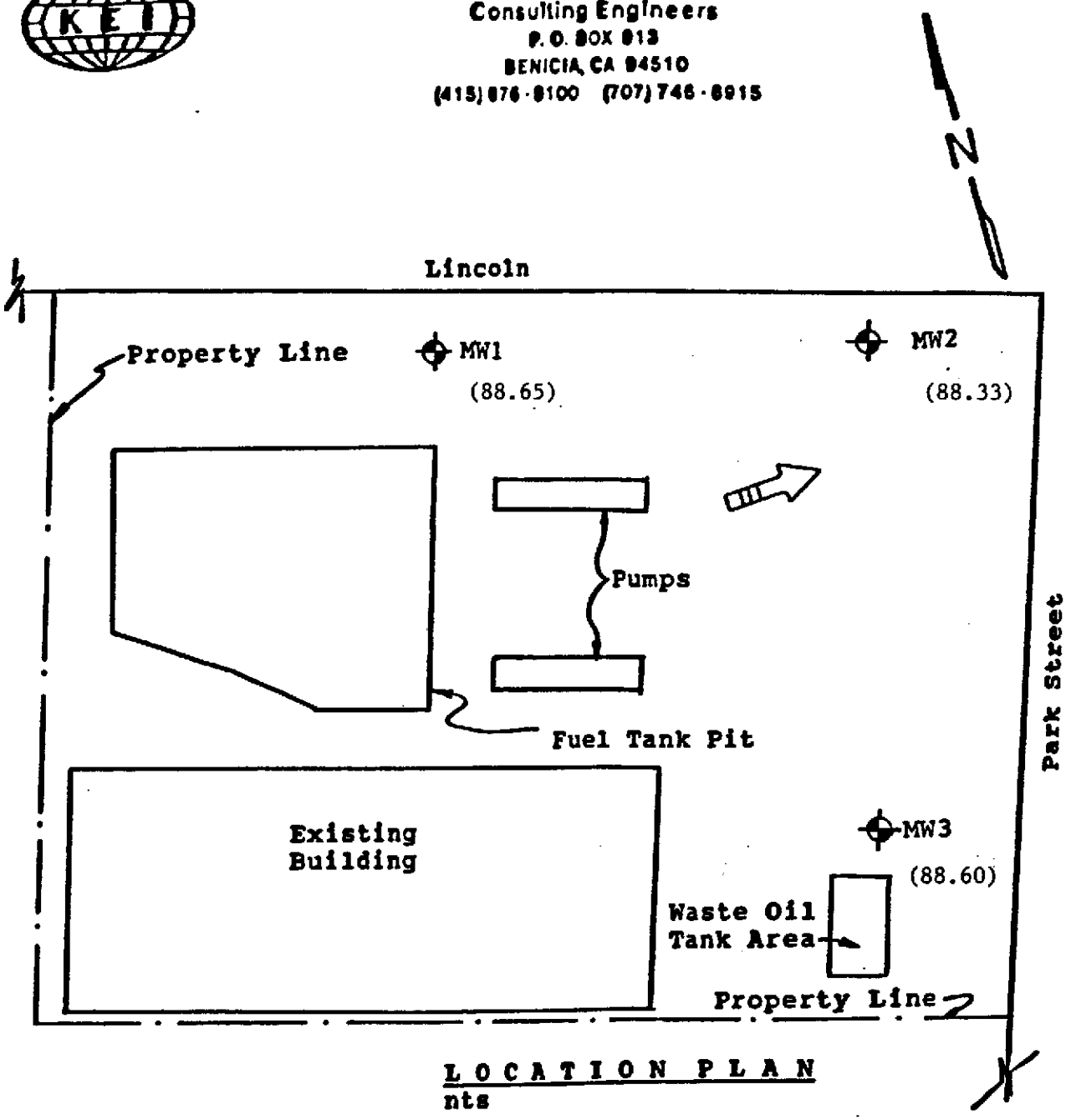
KAPREALIAN ENGINEERING, INC.
Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 - 9100 (707) 746 - 6915



LOCATION MAP

792. Acetylene sludge (C)
793. Acid and water (C)
794. Acid sludge (C)
795. AFU Floc (F)
796. Alkaline caustic liquids (C)
797. Alkaline cleaner (C)
798. Alkaline corrosive battery fluid (C)
799. Alkaline corrosive liquids (C)
800. Asbestos waste (T)
801. Ashes (T,C)
802. Bag house wastes
803. Battery acid (C)
804. Beryllium waste (T)
805. Bilge water (T)
806. Boiler cleaning waste (T,C)
807. Bunker Oil (T,F)
808. Catalyst
809. Caustic sludge (C)
810. Caustic wastewater (C)
811. Chemical cleaners
812. Chemical toilet waste
813. Cleaning solvents (F)
814. Corrosion inhibitor (T,C)
815. Data processing fluid (F)
816. Drilling fluids
817. Drilling mud
818. Dyes
819. Etching acid liquid or solvent (C,F)
820. Fly ash (T,C)
821. Fuel waste(T,F)
822. Insecticides (T)
823. Laboratory waste
824. Lime and sulfur sludge (C)
825. Lime sludge (C)
826. Lime wastewater (C)
827. Liquid cement
828. Liquid cleaning compounds
829. Mine tailings
830. Obsolete explosives (R)
831. Oil and water (T)
832. Oil Ash (T,C)
833. Paint (or varnish) remover or stripper (F)
834. Paint thinner (T,F)
835. Paint waste (or slops) (T,F)
836. Pickling liquor (C)
837. Pigments
838. Plating waste (T,C)
839. Printing ink
840. Retrograde explosives (R)
841. Sludge acid (C)
842. Soda ash (C)
843. Solvents (F)
844. Spent acid (C)
845. Spent caustic (C)
846. Spent (or waste) cyanide solutions (T,C)
847. Spent mixed acid (C)
848. Spent plating solution (T,C)
849. Spent sulfuric acid (C)
850. Stripping solution (T,F)
851. Sulfonation oil (F)
852. Tank bottom sediment
853 Tank cleaning sludges
854. Tanning sludges
855. Toxic chemical toilet wastes (T)
856. Unrinsed pesticide containers (T)
857. Unwanted or waste pesticides-an unusable portion of active ingredient or undiluted formulation (T)
858. Waste chemicals
859. Waste expoxides
860. Waste (or slop) oil (T)
861. Weed killer (T)

KAPREALIAN ENGINEERING, INC.
Consulting Engineers
P.O. BOX 813
BENICIA, CA 94510
(415) 676-8100 (707) 746-8915



LOCATION PLAN
nts

Monitoring Well

Direction of groundwater flow (10-12-88)

( ) Groundwater elevation (feet)

Surface elevation at top of MW3 assumed 100' as datum (MW-1 99.23', MW-2 99.33')

MOBIL Service Station
1541 Park Street
Alameda, California

SEQUOIA ANALYTICAL

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 10/12/88
Date Received: 10/12/88
Date Analyzed: 10/18/88
Date Reported: 10/19/88

Project: Mobil, Alameda, Park/Lincoln

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION

Sample Number	Sample Description	Low to Medium Boiling Point Hydrocarbons	Benzene	Toluene	Ethyl Benzene	Xylenes
	Water	ppb	ppb	ppb	ppb	ppb
8101048	MW2	N.D.	N.D.	N.D.	N.D.	N.D.
8101049	MW3	N.D.	N.D.	N.D.	N.D.	N.D.
8101050	MW1	14000	180	420	110	750
Detection Limits:		50	0.5	0.5	0.5	0.5

Method of Analysis: EPA 5030/8015/8020

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 10/12/88
Date Received: 10/12/88
Date Reported: 10/19/88

Project: Mobil,Alameda, Park/Lincoln

LABORATORY ANALYSIS

Sample Number	Sample Description
8101049	Liquid, MW3

Analyte	Detection Limit	Sample Result
Total Dissolved Solids, mg/L	1.0	790

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

KAPREALIAN ENGINEERING, INC.
Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676-9100 (707) 746-9915

CHAIN OF CUSTODY

SAMPLER: Ray Kr (signature) DATE/TIME OF COLLECTION: 10/12/88 TURN AROUND TIME: 1 Week

SAMPLE DESCRIPTION AND PROJECT NUMBER: MOBIL ALAMEDA PARK / LINCOLN

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/ WATER
→ MW1	TPHG. BTXE	Grab	2V	W
MW2	" "	"	2V	"
MW3	TPHG. BTXE	"	2V	"
	TDS	"	2V	"

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. [illegible]	16:30 10/12/88	[illegible]	16:30 10/12/88
2.			
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: