SDMS DOCID # 1150074

EMCON
ASSOCIATES
Consultants in Wastes
Management and
Environmental Control

RECEIVED
AUG 08 1988
HAZARDOUS MATERIALS
CONTROL PROGRAM

August 2, 1988
Project No. B15-01.01

Mr. George Walker
c/o Mr. Thomas J. Prenevost
Fabozzi, Prenevost and Normandin
2020 E. First Street, Suite 500
Santa Ana, California 92705

Re: Results of Soil Sampling at
the Walker Properties Site,
Santa Fe Springs, California

Dear Mr. Walker:

EMCON Associates is pleased to present the analytical results of soil samples which were collected from the eastern and central portion of the property located on the southeast corner of Bloomfield Avenue and Lakeland Road in Santa Fe Springs, California (Figure 1). The purpose of testing these samples was to confirm earlier findings by Dames & Moore that the soil in this area has not been adversely affected by past activities at the site.

This letter only addresses the conditions on the eastern and central portions of the property, labeled as "Parcel 1" on the attached Figure 2. The other parcels will be addressed in the Remedial Investigation/Feasibility Study (RI/FS) work plan which is currently being prepared.

SITE DESCRIPTION AND HISTORY

The Walker Properties site is located on the southeast corner of the intersection of Lakeland Road and Bloomfield Avenue in Santa Fe Springs, California. Based on information provided by the current property owner, Mr. George Walker, and officials from the City of Santa Fe Springs, the property was originally developed by Getty Oil Company in the early 1900's. Getty Oil reportedly used the property as a hydrocarbon handling facility.

3300 N. San Fernando Blvd., Burbank, California 91504, (818) 841-1160

Aerial photographs from the 1950's and 1960's show several sumps on the property which were reportedly used for the disposal of drilling fluids and muds. These photographs also revealed that the westernmost portion of Parcel 1, adjacent to Bloomfield Avenue, has remained an empty field.

According to information provided by the City of Santa Fe Springs, in 1967 when the entire eastern portion of the site was graded. mud and debris were removed from the sumps and were spread about the site to dry. The sumps were refilled to grade using a mixture of this air-dried material and clean soil. A natural drainage course in the eastern portion of the property was also filled to grade and was replaced by the City of Santa Fe Springs with a buried 42-inch storm sewer line.

Currently, Gross Construction Company is leasing a portion of Parcel 1 for the storage of heavy construction machinery and equipment. This company owns and operates a transportable, aboveground diesel tank which will be removed when the property is vacated in August 1988.

PREVIOUS INVESTIGATIONS OF PARCEL 1

In 1982, the California Department of Health Services (DOHS) conducted a survey for abandoned hazardous waste sites in Los Angeles County. Through their search of aerial photographs, the DOHS discovered the sumps which had been located on the Walker Properties site. After a field inspection in October 1982, the DOHS recommended that core sampling was needed in the area of the former sumps. Based on this recommendation, Mr. Walker began to investigate potential areas for hazardous waste contamination at the site.

During the first phase of a site assessment performed by Dames & Moore in April 1985, five borings (shown as Borings 3, 4, 5A, 5B, and 6 on Figure 2) were drilled on Parcel 1. Selected soil samples from these borings were analyzed for total organic carbon (TOC), total organic halogens (TOX), volatile halogenated organics (EPA Method 8010), volatile aromatics (EPA Method 8020), organochlorine pesticides and polychlorinated biphenyls (PCBs) (EPA Method 8080), and for metals listed in Article 11 of Title 22 of the California Administrative Code (now also referred to as the "California Code of Regulations").

The analytical results for selected chemicals for the samples collected in April 1985 from Parcel 1 are summarized in Table 1. attached. The laboratory reports are provided in Attachment 1.

Of the samples collected during this investigation from the southern portion of the parcel (Borings 3 and 4), no volatile halogenated organics, volatile aromatics, PCBs or pesticides were detected. All

the metal concentrations were well below the Total Threshold Limit Concentration (TTLC) and less than ten times the Soluble Threshold Limit Concentration (STLC).

The samples collected from borings drilled in the former drainage area (5A and 5B) contained detectable concentrations of volatile compounds and somewhat elevated concentrations of barium and lead. The sample analyzed from Boring 6 (drilled in the area of a former sump) did not contain detectable concentrations of volatile halogenated organics, volatile aromatics, pesticides or PCBs. The lead concentration in this sample was 6.5 mg/kg and the barium concentration was 96 mg/kg.

To further evaluate the nature of the barium and lead found on Parcel 1, six additional borings were drilled in March 1986 by Dames & Moore. These borings are shown on Figure 2 as 5C, 5D, 5E, 5F, 5G, and 5H. During drilling, low levels of organic vapors (up to 120 ppm) were detected using an organic vapor analyzer (OVA). Six soil samples were collected and analyzed for metals and one sample was analyzed for volatile organics. The analytical results for metals are provided in Table 2, and the laboratory reports are provided in Attachment 2.

None of the total metal concentrations in any of the samples exceeded their TTLCs. In cases where the total concentration of a particular element exceeded ten times its STLC, modified Waste Extraction Tests (WET's) were conducted using deionized water. None of the WET's yielded detectable concentrations of lead or barium. Furthermore, no volatile organics were detected in the one sample which was analyzed for these chemicals. At the request of the DOHS, these samples were further analyzed for PCBs, yet none were detected.

Based on these findings, the DOHS wrote a letter dated June 5, 1986 to Mr. George Beaty of the City of Santa Fe Springs stating that the DOHS had no objections to Dames & Moore's proposal to cap the eastern portion of the parcel, but that those measures did not appear necessary. A copy of this letter is provided as Attachment 3.

SCOPING THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Background

In June 1988, EMCON was retained by Mr. Walker to prepare a work plan which covers the activities necessary to conduct a complete RI/FS for the Walker Properties Site. EMCON began the initial planning phase of the RI/FS process (called "scoping") by collecting and reviewing available data about the site. The second phase of this scoping process involved identifying the boundaries of the study area.

Based on EMCON's review of Dames & Moore's and the DOHS' evaluation of the condition of Parcel 1, it appeared that this portion of the property should be eliminated from further investigation. However, it was felt that additional soil samples from this area should be collected and analyzed to confirm the earlier conclusions and to determine if site conditions had changed since 1986.

Field Investigation

Prior to commencing field activities, EMCON established an approximate 200 foot by 200 foot sampling grid over the eastern portion of the property (Figure 3). Sampling locations were established near the centers of these grids. A geophysical survey was performed in the vicinity of each of these proposed sampling locations to screen for underground pipes and utilities. The actual drilling locations, as shown on Figure 3, varied slightly from the grid pattern because aboveground obstructions or topography prevented access by the drill rig.

On July 7, 1988, a total of 13 exploratory borings were drilled and sampled at a maximum depth of five feet below grade. The borings were drilled using continuous flight, hollow-stem auger drilling equipment and were logged by an EMCON geologist.

Soil samples were obtained by advancing a modified California split-spoon sampler, equipped with brass liners, into the undisturbed soil beyond the tip of the auger. The soil samples were retained in the brass liners, sealed with Teflon tape and plastic caps, labeled, and stored on ice. The soil samples were transported with appropriate chain-of-custody documentation to a State-certified laboratory for analysis. All soil sampling equipment was washed in a trisodium phosphate solution and and triple-rinsed in tap water prior to each sampling event. In addition, all drilling equipment was steam cleaned prior to the drilling of each boring to prevent possible cross-contamination between borings.

The borings encountered clayey to silty sand and silt to the maximum depth drilled. The EMCON geologist noted no odors or staining in any of the borings except for B-10 and B-11. Oily odors were detected in each of these two borings, and irregular black staining of soils was observed in Boring B-11.

Laboratory Analysis

The 13 soil samples were transmitted to Truesdail Laboratories (located in Santa Ana, California) for analysis of volatile organics by U.S. EPA Method 8240, chlorinated pesticides and PCB's by U.S. EPA Method 8080, barium by U.S. EPA Method 7080, and lead by U.S. EPA Method 7420. The certified analytical reports are provided in Attachment 4.

No volatile organics, pesticides, nor PCB's were detected in any of the samples. The detection limit for the volatile organics was 0.5 mg/kg, 0.0005 mg/kg for pesticides, and 0.1 mg/kg for PCB's.

Lead and barium were detected in each of the samples as shown on Table 3. The maximum concentrations of these two metals were found in Boring B-10. The barium concentration in this sample was 640 mg/kg, well below its TTLC (10,000 mg/kg), and less than ten times its STLC (100 mg/L). The maximum lead concentration detected in this sample was 84.9 mg/kg. This concentration is below the 1,000 mg/kg TTLC for lead, but is greater than ten times the STLC of 5 mg/kg for this element. A WET using a sodium citrate extraction solution was performed on this sample. Only 2.8 mg/L soluble lead was detected by the test which is below the STLC.

CONCLUSIONS AND RECOMMENDATIONS

Based on the previous work performed by Dames & Moore, and on the findings of EMCON's recent sampling activities, it appears that Parcel 1 has not been adversely affected by releases of hazardous substances. The new data support the conclusions reached by Dames & Moore and the DOHS in 1985 that mitigation measures for contamination by lead, barium, PCB's, pesticides, or volatile organics do not appear necessary. The low levels of organic vapors which were detected by Dames & Moore will be addressed during development of the property using a soil gas survey to be performed as required by the City of Santa Fe Springs. Therefore, EMCON recommends that Parcel 1 be eliminated from further assessment during the RI/FS.

If you have any questions or comments regarding this letter, please do not hesitate to call Bonnie Teaford.

Sincerely,

EMCON Associates

Bonnie Teaford

Bonnie Teaford, P.E.
Project Manager
RCE No. 43057

REGISTERED PROFESSIONAL ENGINEER
BONNIE TEAFORD
No. 43057
Exp. 3/31/92
CIVIL
STATE OF CALIFORNIA

John N. Batchelder

John N. Batchelder
Regional Manager

BT/JNB:se

Attachments:

Table 1 - Summary of Analytical Results for Soil Samples Collected in April 1985 (Parcel 1)
Table 2 - Summary of Analytical Results for Soil Samples Collected in March 1986 (Parcel 1)
Table 3 - Summary of Analytical Results for Soil Samples Collected in July 1988 (Parcel 1)

Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - EMCON Associates Sampling Locations

Attachment 1 - Laboratory Results for Soil Samples Collected in April 1985 by Dames & Moore
Attachment 2 - Laboratory Results for Soil Samples Collected in March 1986 by Dames & Moore
Attachment 3 - Letter from California Department of Health Services
Attachment 4 - Certified Analytical Reports of Soil Samples Collected in July 1988 by EMCON Associates

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
COLLECTED IN APRIL 1985 (PARCEL 1)

Boring No.	Sample Depth Range (feet)	Volatile Halogenated Organics (ug/g)	Volatile Aromatics (ug/g)	Pesticides and PCBs (ug/g)	Barium and Lead (mg/kg)
3	11 - 13.5	ND (0.05)	ND (0.05)	ND (0.8)	Ba=47 Pb=ND(5)
4	1.5 - 8.5	ND (0.05)	ND (0.05)	ND (0.8)	Ba=163 Pb=5.1
5A	3.5 - 6	ND (0.05)	Tol=0.64	ND (0.8)	Ba=760 Pb=30
5B	3.5	1,1,1-TCA=0.07 TCE=0.25 PCE=0.11	Tol=0.49	ND (0.8)	Ba=2520 Pb=88
6	6 - 13.5	ND (0.05)	ND (0.05)	ND (0.8)	Ba=96 Pb=6.5

NOTES: ND = Not Detected at detection limit shown in parentheses
Only detectable concentrations of halogenated organics and volatile aromatics shown on Table 1 - Complete analyses shown on Laboratory Report (Attachment 1)
Ba = Barium
Pb = Lead
Tol = Toluene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethylene
PCE = Tetrachloroethylene

Reference: Dames & Moore; Draft Report, Subsurface Investigation, Former Getty Property, Santa Fe Springs, California, July 1, 1985.

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
COLLECTED IN MARCH 1986 (PARCEL 1)

Boring No.	Sample Depth Range (feet)	Total Lead (mg/kg)	Soluble Lead (mg/L)	Total Barium (mg/kg)	Soluble Barium (mg/L)
5C	5 - 6	52	ND (1.0)	1120	ND (0.5)
5D	5 - 6	37	ND (1.0)	615	ND (0.5)
5E	5 - 6	17	NA	473	ND (0.5)
5F	20 - 21	ND (5)	NA	49	ND (NA)
5G	5 - 6	93	ND (0.5)	248	ND (1)
5H	4 - 5	98	ND (1)	526	ND (0.5)

NOTE: ND = Not Detected at detection limit shown in parentheses.
NA = Not Analyzed

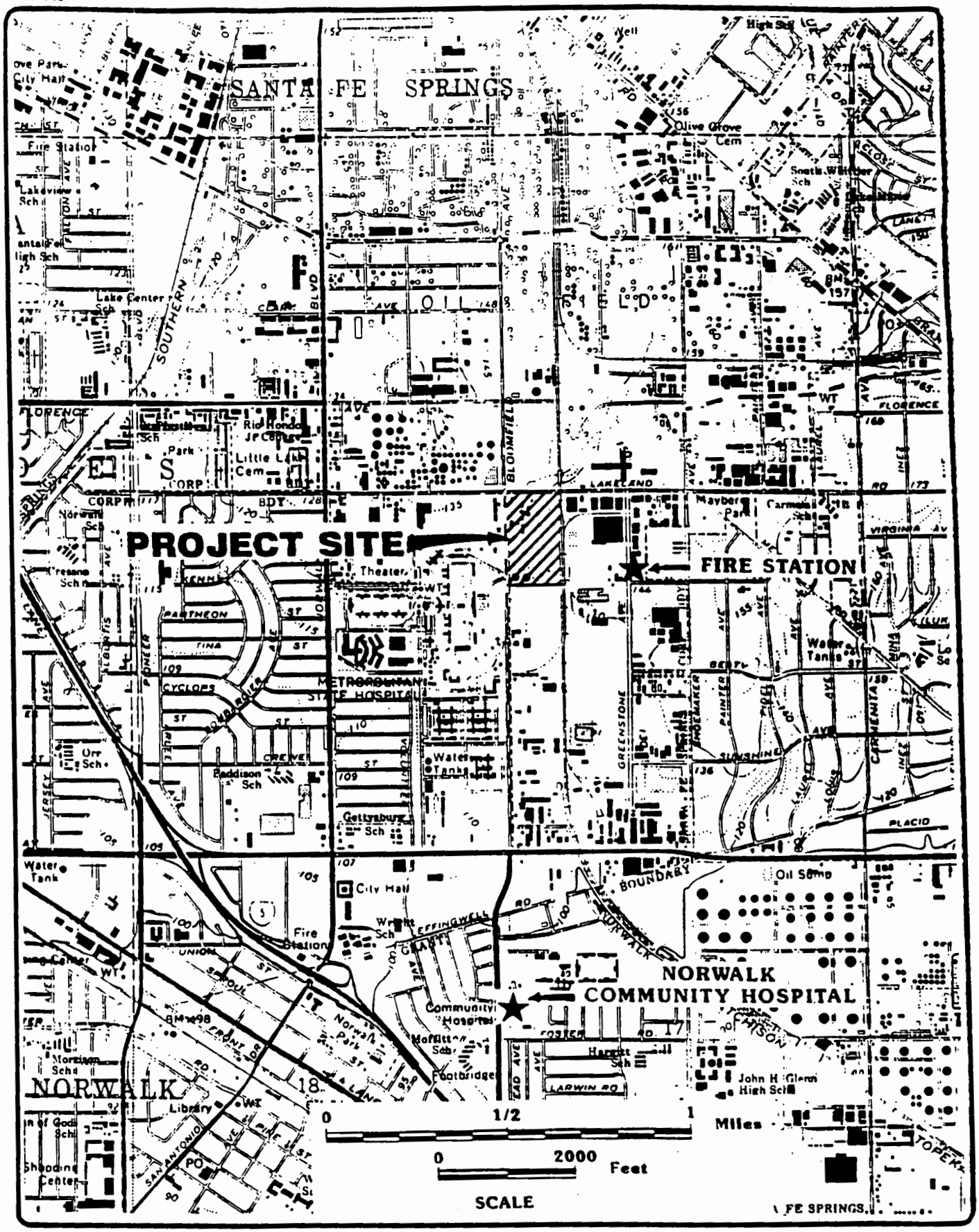
Reference: Dames & Moore; Analytical Results, Phase II Drilling and Sampling Program, Walker Properties Site, April 3, 1986.

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
COLLECTED IN JULY 1988 (PARCEL 1)

Boring No.	Depth (feet)	Barium (mg/kg)	Lead (mg/kg)
B-1	5	137	12.6
B-2	5	169	14.5
B-3	5	123	12.5
B-4	5	120	11.5
B-5	5	91.3	13.8
B-6	5	96.7	17.9
B-7	5	108	12
B-8	5	63.9	9.5
B-9	5	47.1	8.9
B-10	5	640	84.9
B-11	5	321	32.0
B-12	5	107	10.4
B-13	5	126	16.6

117149



EMCON Associates

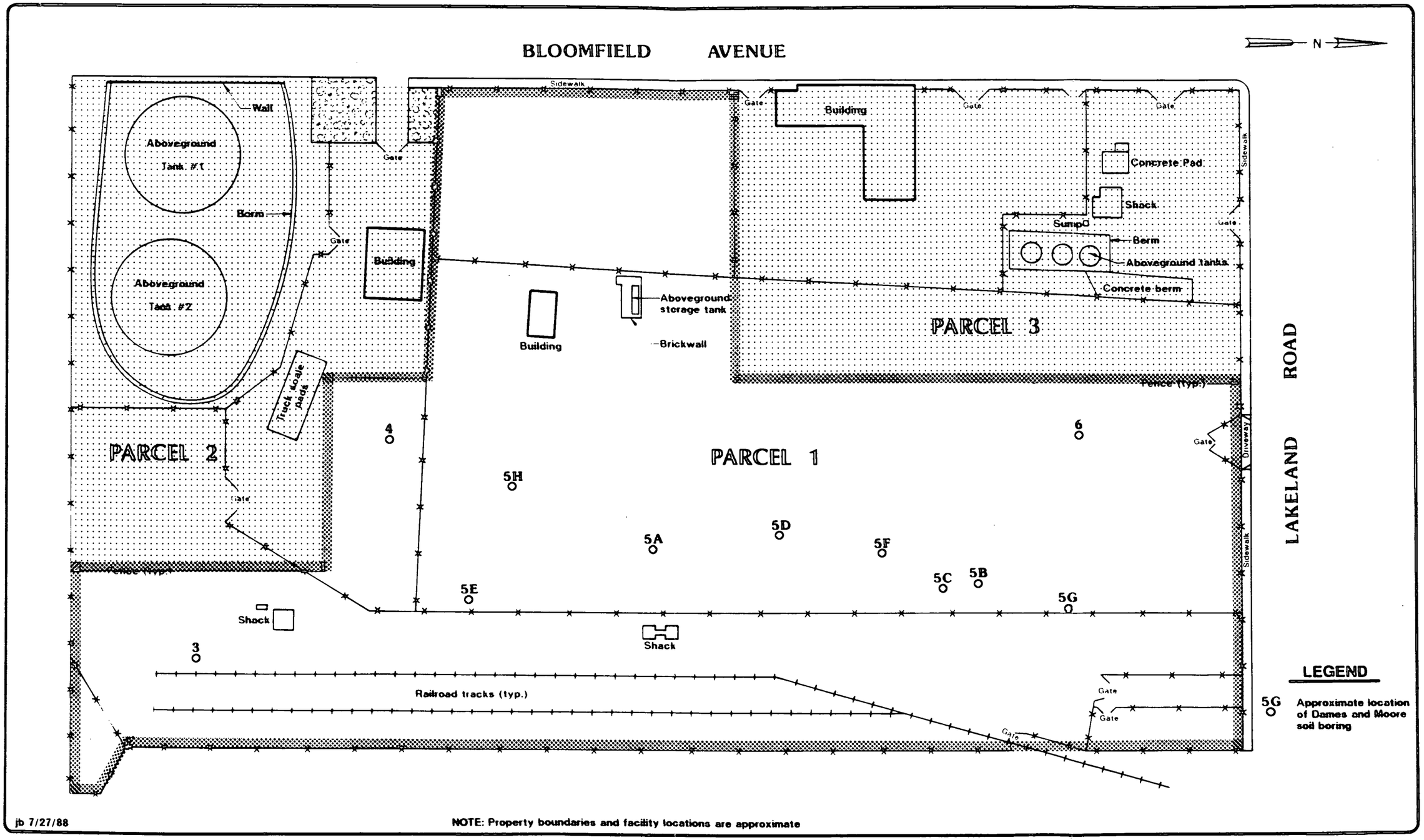
WALKER PROPERTIES
11102 BLOOMFIELD AVE.
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP

FIGURE 1

PROJECT NO. B15-01.01

117149



EMCON Associates

0 100 200 300 Feet

SCALE

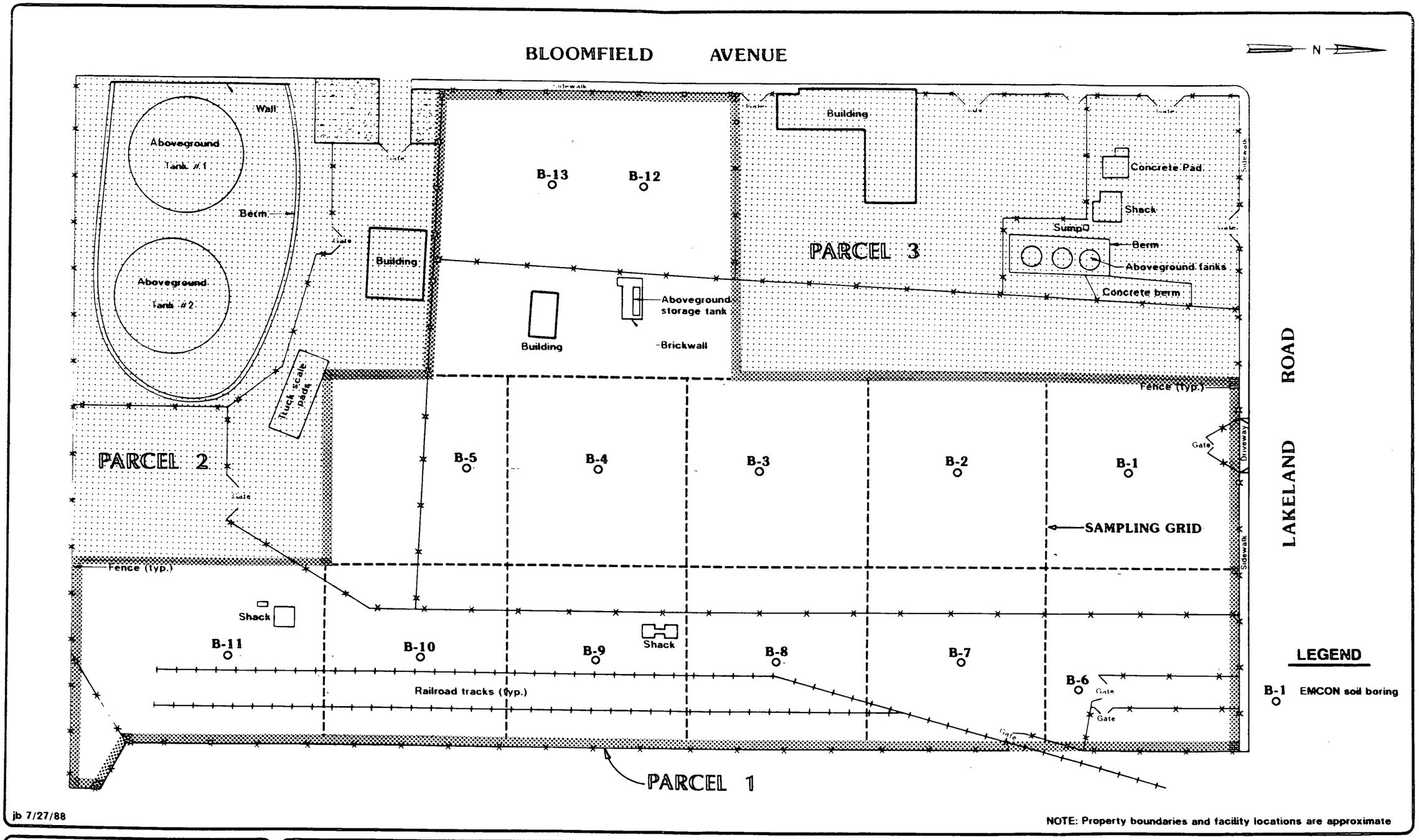
WALKER PROPERTIES

SANTA FE SPRINGS, CALIFORNIA

SITE PLAN

FIGURE 2

PROJECT NO. B15-01.01



EMCON Associates

0 100 200 300 Feet

SCALE

WALKER PROPERTIES

SANTA FE SPRINGS, CALIFORNIA

EMCON ASSOCIATES SAMPLING LOCATIONS

FIGURE 3

PROJECT NO B15-01.01

California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

May 31, 1985
Lab No. 20947
Received: 5/1/85
Project: 14315-002-001
Santa Fe Springs

Bob Troutman
Dames & Moore
812 Anacapa Street
Suite A
Santa Barbara, CA 93101

Ninety-nine soil samples were received in 4 inch stainless steel core tubes to be analyzed for organochlorine pesticides and PCB's (EPA 8080), volatile halocarbons (EPA 8010), volatile aromatics (EPA 8020), CAM-TTLC metals, TOC and TOX.

CAL I.D.	Sample I.D.				Analytical Composite
20947-1	B1	S1	1'	4/24	
-2	B1	S1	5'	4/24	
-3	B1	S3	10.5'	4/24	
-4	B1	S4	15.5'	4/24	
-5	B1	S5	20'	4/24	
-6	B1	S6	25'	4/24	
-7	B1	S7	30'	4/24	20947-B1-C
-8	B1	S8	35'	4/24	
-9	B1	S9	40'	4/24	
-10	B1	S10	50'	4/25	
-11	B1	S11	60'	4/25	
-12	B1	S12	70'	4/25	
-13	B2	S1	1'	4/24	
-14	B2	S2	5.5'	4/24	
-15	B2	S3	10.5'	4/24	
-16	B2	S4	15'	4/24	
-17	B2	S5	25'	4/24	20947-B2-C
-18	B2	S6	30'	4/24	
-19	B2	S7	35'	4/24	
-20	B2	S8	39.5'	4/24	
-21	B3	S1	.5'	4/23	
-22	B3	S2	3.5'	4/23	
-23	B3	S3	6'	4/23	
-24	B3	S4	8.5'	4/23	
-25	B3	S5	11'	4/23	20947-B3-C
-26	B3	S6	13.5'	4/23	
-27	B4	S1	1.5'	4/23	
-28	B4	S2	3.5'	4/23	20947-B4-C
-29	B4	S3	6'	4/23	(20947-28 excluded)
-30	B4	S4	8.5'	4/23	

This report is for the sole and exclusive use of the client to whom it is addressed.
Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

Dames & Moore
Lab No. 20947
May 31, 1985
Page 2

CAL I.D.	Sample I.D.				Analytical Composite
20947-31	B4	S5	11'	4/23	
-32	B4	S6	13.5'	4/23	
-33	B4	S7	16'	4/23	
-34	B5A	S1	1'	4/22	
-35	B5A	S2	3.5'	4/22	20947-B5A-C
-36	B5A	S3	6'	4/22	
-37	B5A	S4	8.5'	4/22	
-38	B5A	S5	11'	4/22	
-39	B5A	S6	13.6'	4/22	
-40	B5A	S7	16'	4/22	
-41	B5A	S8	18'	4/22	
-42	B5A	S9	21'	4/22	
-43	B5B	S1	.5'	4/22	
-44	B5B	S2	3.5'	4/22	20947-44
-45	B5B	S3	6'	4/22	
-46	B5B	S4	8'	4/22	
-47	B5B	S5	11'	4/22	
-48	B5B	S6	13.5'	4/22	
-49	B5B	S7	15'	4/22	
-50	B5B	S8	18.5'	4/22	
-51	B5B	S9	21'	4/22	
-52	B6	S1	1'	4/23	
-53	B6	S2	3.5'	4/23	
-54	B6	S3	6'	4/23	
-55	B6	S4	8.5'	4/23	20947-B6-C
-56	B6	S5	11'	4/23	
-57	B6	S6	13.5'	4/23	
-58	B6	S7	18.5'	4/23	
-59	B7A	S1	1.5'	4/25	
-60	B7A	S2	4.5'	4/25	
-61	B7A	S3	7'	4/25	20947-B7A-C
-62	B7A	S4	9.5'	4/25	
-63	B7A	S5	12'	4/25	
-64	B7A	S6	14.5'	4/25	
-65	B7A	S7	17'	4/25	
-66	B7A	S8	19.5'	4/25	
-67	B7A	S9	25'	4/25	
-68	B7A	S10	30'	4/25	
-69	B7A	S11	34.5'	4/25	
-70	B7B	S1	2'	4/25	20947-B7B-C
-71	B7B	S2	3.5'	4/25	

Dames & Moore
Lab No. 20947
May 31, 1985
Page 3

CAL I.D.	Sample I.D.				Analytical Composite
20947-72	B7B	S3	6'	4/25	
-73	B7B	S4	8.5'	4/25	
-74	B7B	S5	11'	4/25	
-75	B7B	S6	13.5'	4/25	
-76	B7B	S7	16'	4/25	
-77	B7B	S8	18.5'	4/25	
-78	B7B	S9	20'	4/25	
-79	B7B	S10	25.5'	4/25	
-80	B7C	S1	1.5'	4/26	
-81	B7C	S2	3.5'	4/26	
-82	B7C	S3	5.5'	4/26	
-83	B7C	S4	8'	4/26	
-84	B7C	S5	10.5'	4/26	
-85	B7C	S6	13'	4/26	
-86	B7C	S7	15.5'	4/26	
-87	B7C	S8	20.5'	4/26	
-88	B7C	S9	25'	4/26	
-89	B8	S1	1.5'	4/26	
-90	B8	S2	3'	4/26	
-91	B8	S3	5.5'	4/26	
-92	B8	S4	8'	4/26	
-93	B8	S5	10.5'	4/26	
-94	B8	S6	13'	4/26	
-95	B8	S7	15.5'	4/26	
-96	B8	S8	20.5'	4/26	20947-B8-C
-97	B8	S9	25'	4/26	
-98	SURFACE SOIL SS-1 4/26				
-99	SURFACE SOIL SS-2 4/26				

Compositing and analysis instructions were received from Bob Troutman on 8 May. Results for TOC and TOX follow; additional results are on the attached data sheets.

CAL I.D.	value found TOC (%)	TOX (ppm)
20947-B1-C	0.2	<5
-B2-C	<0.1	<5
-B3-C	<0.1	<5
-B4-C	<0.1	<5
-B5A-C	3	<5
-B6-C	<0.1	<5
-B7A-C	0.2	<5
-B8-C	<0.1	<5
-B7B-C	7	<5
-44	3	<5

Charles J. Soderquist, PhD
Vice President

Anthony S. Wong, PhD
Vice President

nc

VOLATILE HALOGENATED ORGANICS

EPA Method 8010

Data Sheet

Sample I.D. Composite CAL I.D. 20947-B3-C

	ug/g (ppm)
1,1-Dichloroethylene	<0.05
1,1-Dichloroethane	<0.05
trans-1,2-Dichloroethylene	<0.05
Chloroform	<0.05
1,1,2-Trichloro-2,2,1-trifluoroethane	<0.05
1,2-Dichloroethane	<0.05
1,1,1-Trichloroethane	<0.05
Carbon tetrachloride	<0.05
Bromodichloromethane	<0.05
1,2-Dichloropropane	<0.05
cis-1,3-Dichloropropylene	<0.05
Trichloroethylene	<0.05
trans-1,3-Dichloropropylene	<0.05
1,1,2-Trichloroethane	<0.05
Dibromochloromethane	<0.05
1,2-Dibromoethane	<0.05
Bromoform	<0.05
Tetrachloroethylene	<0.05
1,1,2,2-Tetrachloroethane	<0.05
Chlorobenzene	<0.05

PREPARED BY KP

APPROVED BY CJS

DATE 31 May

VOLATILE HALOGENATED ORGANICS
EPA Method 8010
Data Sheet

Sample I.D. Composite

CAL I.D. 20947-B4-C

	ug/g (ppm)
1,1-Dichloroethylene	<0.05
1,1-Dichloroethane	<0.05
trans-1,2-Dichloroethylene	<0.05
Chloroform	<0.05
1,1,2-Trichloro-2,2,1-trifluoroethane	<0.05
1,2-Dichloroethane	<0.05
1,1,1-Trichloroethane	<0.05
Carbon tetrachloride	<0.05
Bromodichloromethane	<0.05
1,2-Dichloropropane	<0.05
cis-1,3-Dichloropropylene	<0.05
Trichlorcethylene	<0.05
trans-1,3-Dichloropropylene	<0.05
1,1,2-Trichloroethane	<0.05
Dibromochloromethane	<0.05
1,2-Dibromoethane	<0.05
Bromoform	<0.05
Tetrachloroethylene	<0.05
1,1,2,2-Tetrachloroethane	<0.05
Chlorobenzene	<0.05

PREPARED BY KP

APPROVED BY GS

DATE 31 May

VOLATILE HALOGENATED ORGANICS

EPA Method 8010

Data Sheet

Sample I.D. Composite

CAL I.D. 20947-B5A-C

	ug/g (ppm)
1,1-Dichloroethylene	<0.05
1,1-Dichloroethane	<0.05
trans-1,2-Dichloroethylene	<0.05
Chloroform	<0.05
1,1,2-Trichloro-2,2,1-trifluoroethane	<0.05
1,2-Dichloroethane	<0.05
1,1,1-Trichloroethane	<0.05
Carbon tetrachloride	<0.05
Bromodichloromethane	<0.05
1,2-Dichloropropane	<0.05
cis-1,3-Dichloropropylene	<0.05
Trichloroethylene	<0.05
trans-1,3-Dichloropropylene	<0.05
1,1,2-Trichloroethane	<0.05
Dibromochloromethane	<0.05
1,2-Dibromoethane	<0.05
Bromoform	<0.05
Tetrachloroethylene	<0.05
1,1,2,2-Tetrachloroethane	<0.05
Chlorobenzene	<0.05

PREPARED BY KP

APPROVED BY CB

DATE 31 May

VOLATILE HALOGENATED ORGANICS

EPA Method 8010

Data Sheet

Sample I.D. Composite

CAL I.D. 20947-44

	ug/g (ppm)
1,1-Dichloroethylene	<0.05
1,1-Dichloroethane	<0.05
trans-1,2-Dichloroethylene	<0.05
Chloroform	<0.05
1,1,2-Trichloro-2,2,1-trifluoroethane	<0.05
1,2-Dichloroethane	<0.05
1,1,1-Trichloroethane	0.07
Carbon tetrachloride	<0.05
Bromodichloromethane	<0.05
1,2-Dichloropropane	<0.05
cis-1,3-Dichloropropylene	<0.05
Trichloroethylene	0.25
trans-1,3-Dichloropropylene	<0.05
1,1,2-Trichloroethane	<0.05
Dibromochloromethane	<0.05
1,2-Dibromoethane	<0.05
Bromoform	<0.05
Tetrachloroethylene	0.11
1,1,2,2-Tetrachloroethane	<0.05
Chlorobenzene	<0.05

PREPARED BY KP

APPROVED BY CJS

DATE 31 May

ATTACHMENT 1

LABORATORY REPORTS FOR SOIL SAMPLES COLLECTED IN APRIL 1985 BY DAMES & MOORE

VOLATILE HALOGENATED ORGANICS

EPA Method 8010

Data Sheet

Sample I.D. Composite CAL I.D. 20947-B6-C

	ug/g (ppm)
1,1-Dichloroethylene	<0.05
1,1-Dichloroethane	<0.05
trans-1,2-Dichloroethylene	<0.05
Chloroform	<0.05
1,1,2-Trichloro-2,2,1-trifluoroethane	<0.05
1,2-Dichloroethane	<0.05
1,1,1-Trichloroethane	<0.05
Carbon tetrachloride	<0.05
Bromodichloromethane	<0.05
1,2-Dichloropropane	<0.05
cis-1,3-Dichloropropylene	<0.05
Trichloroethylene	<0.05
trans-1,3-Dichloropropylene	<0.05
1,1,2-Trichloroethane	<0.05
Dibromochloromethane	<0.05
1,2-Dibromoethane	<0.05
Bromoform	<0.05
Tetrachloroethylene	<0.05
1,1,2,2-Tetrachloroethane	<0.05
Chlorobenzene	<0.05

PREPARED BY KP

APPROVED BY CJS

DATE 31 May

VOLATILE AROMATICS
EPA Method 8020
Data Sheet

Sample I.D. Composite

CAL I.D. 20947-B3-C

	ug/g (ppm)
benzene	<0.05
toluene	<0.05
chlorobenzene	<0.05
ethylbenzene	<0.05
xylene (total*)	<0.05
dichlorobenzene (total*)	<0.05

* (includes o, m & p isomers)

PREPARED BY SB

APPROVED BY CJS

DATE 31 May

VOLATILE AROMATICS
EPA Method 8020
Data Sheet

Sample I.D. Composite

CAL I.D. 20947-B4-C

	ug/g (ppm)
benzene	<0.05
toluene	<0.05
chlorobenzene	<0.05
ethylbenzene	<0.05
xylene (total*)	<0.05
dichlorobenzene (total*)	<0.05

* (includes o, m & p isomers)

PREPARED BY JB
APPROVED BY CJS

DATE 31 May

VOLATILE AROMATICS
EPA Method 8020
Data Sheet

Sample I.D. Composite

CAL I.D. 20947-B5A-C

	ug/g (ppm)
benzene	<0.5
toluene	0.64
chlorobenzene	<0.5
ethylbenzene	<0.5
xylene (total*)	<1.0**
dichlorobenzene (total*)	<1.0**

* (includes o, m & p isomers)
** higher detection limit due to matrix interferences

PREPARED BY SB
APPROVED BY CH

DATE 31 May

VOLATILE AROMATICS
EPA Method 8020
Data Sheet

Sample I.D. Composite

CAL I.D. 20947-44

	ug/g (ppm)
benzene	<0.05
toluene	<0.49
chlorobenzene	<0.05
ethylbenzene	<0.05
xylene (total*)	<0.05
dichlorobenzene (total*)	<0.05

* (includes o, m & p isomers)

PREPARED BY SB

APPROVED BY CK

DATE 31 may

VOLATILE AROMATICS
EPA Method 8020
Data Sheet

Sample I.D. Composite

CAL I.D. 20947-B6-C

	ug/g (ppm)
benzene	<0.05
toluene	<0.05
chlorobenzene	<0.05
ethylbenzene	<0.05
xylene (total*)	<0.05
dichlorobenzene (total*)	<0.05

* (includes o, m & p isomers)

PREPARED BY GB
APPROVED BY CJS

DATE 31 May

ORGANOCHLORINE PESTICIDES AND PCB'S
EPA Method 8080

Sample I.D. Composite

CAL I.D. 20947-B3-C

OC Compound	ug/g (ppm)
alpha-BHC	<0.005
gamma-BHC	<0.005
beta-BHC	<0.005
heptachlor	<0.005
delta-BHC	<0.005
aldrin	<0.005
heptachlor epoxide	<0.005
endosulfan I/II	<0.01
p,p'-DDE	<0.01
dieldrin	<0.01
endrin	<0.01
p,p'-DDD	<0.02
p,p'-DDT	<0.02
endrin aldehyde	<0.02
endosulfan sulfate	<0.02
methoxychlor	<0.08
PCB-1242	<0.08
PCB-1248	<0.08
PCB-1254	<0.08
PCB-1260	<0.08
chlordane	<0.08
toxaphene	<0.8

PREPARED BY

APPROVED BY

DATE 31 May

ORGANOCHLORINE PESTICIDES AND PCB'S
EPA Method 8080

Sample I.D. Composite

CAL I.D. 20947-B4-C

OC Compound	ug/g (ppm)
alpha-BHC	<0.005
gamma-BHC	<0.005
beta-BHC	<0.005
heptachlor	<0.005
delta-BHC	<0.005
aldrin	<0.005
heptachlor epoxide	<0.005
endosulfan I/II	<0.005
p,p'-DDE	<0.01
dieldrin	<0.01
endrin	<0.01
p,p'-DDD	<0.01
p,p'-DDT	<0.02
endrin aldehyde	<0.02
endosulfan sulfate	<0.02
methoxychlor	<0.02
PCB-1242	<0.08
PCB-1248	<0.08
PCB-1254	<0.08
PCB-1260	<0.08
chlordane	<0.08
toxaphene	<0.8

PREPARED BY KP

APPROVED BY CR

DATE 31 May

ORGANOCHLORINE PESTICIDES AND PCB'S
EPA Method 8080

Sample I.D. Composite

CAL I.D. 20947-B5A-C

OC Compound	ug/g (ppm)
alpha-BHC	<0.005
gamma-BHC	<0.005
beta-BHC	<0.005
heptachlor	<0.005
delta-BHC	<0.005
aldrin	<0.005
heptachlor epoxide	<0.005
endosulfan I/II	<0.01
p,p'-DDE	<0.01
dieldrin	<0.01
endrin	<0.01
p,p'-DDD	<0.02
p,p'-DDT	<0.02
endrin aldehyde	<0.02
endosulfan sulfate	<0.02
methoxychlor	<0.08
PCB-1242	<0.08
PCB-1248	<0.08
PCB-1254	<0.08
PCB-1260	<0.08
chlordane	<0.08
toxaphene	<0.8

PREPARED BY AP

APPROVED BY CB

DATE 31 May

ORGANOCHLORINE PESTICIDES AND PCB'S
EPA Method 8080

Sample I.D. Composite

CAL I.D. 20947-44

OC Compound	ug/g (ppm)
alpha-BHC	<0.005
gamma-BHC	<0.005
beta-BHC	<0.005
heptachlor	<0.005
delta-BHC	<0.005
aldrin	<0.005
heptachlor epoxide	<0.005
endosulfan I/II	<0.005
p,p'-DDE	<0.01
dieldrin	<0.01
endrin	<0.01
p,p'-DDD	<0.01
p,p'-DDT	<0.02
endrin aldehyde	<0.02
endosulfan sulfate	<0.02
methoxychlor	<0.02
PCB-1242	<0.08
PCB-1248	<0.08
PCB-1254	<0.08
PCB-1260	<0.08
chlordane	<0.08
toxaphene	<0.8

PREPARED BY KP

APPROVED BY CJB

DATE 31 Aug

ORGANOCHLORINE PESTICIDES AND PCB'S
EPA Method 8080

Sample I.D. Composite

CAL I.D. 20947-B6-C

OC Compound	ug/g (ppm)
alpha-BHC	<0.005
gamma-BHC	<0.005
beta-BHC	<0.005
heptachlor	<0.005
delta-BHC	<0.005
aldrin	<0.005
heptachlor epoxide	<0.005
endosulfan I/II	<0.005
p,p'-DDE	<0.01
dieldrin	<0.01
endrin	<0.01
p,p'-DDD	<0.01
p,p'-DDT	<0.02
endrin aldehyde	<0.02
endosulfan sulfate	<0.02
methoxychlor	<0.02
PCB-1242	<0.08
PCB-1248	<0.08
PCB-1254	<0.08
PCB-1260	<0.08
chlordane	<0.08
toxaphene	<0.8

PREPARED BY KP

APPROVED BY CK

DATE 3/[illegible]

C.A.M. METALS
Data Sheet

SAMPLE ID: Composite

CAL ID: 20947-B3-C

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachabl Found (mg/L)
Arsenic	500	<5	5	--
Antimony	500	<5	15	--
Barium	10000	47	100	--
Beryllium	75	0.85	0.75	--
Cadmium	100	<0.5	1	--
*Chromium III/VI	2500/500	6.5	560/5	--
Cobalt	8000	3.4	80	--
Copper	2500	8.9	25	--
Lead	1000	<5	5	--
Mercury	20	<0.10	0.2	--
Molybdenum	3500	<10	350	--
Nickel	2000	6.6	20	--
Selenium	100	<1	1	--
Silver	500	<2	5	--
Thallium	700	<5	7	--
Vanadium	2400	13	24	--
Zinc	5000	25	250	--

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY JRB

APPROVED BY [illegible] DATE 5/31/85

C.A.M. METALS
Data Sheet

SAMPLE-ID: Composite

CAL ID: 20947-B4-C

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachabl Found (mg/L)
Arsenic	500	<5	5	--
Antimony	500	<5	15	--
Barium	10000	163	100	--
Beryllium	75	1.8	0.75	--
Cadmium	100	<0.5	1	--
*Chromium III/VI	2500/500	18	560/5	--
Cobalt	8000	6.4	80	--
Copper	2500	27	25	--
Lead	1000	5.1	5	--
Mercury	20	<0.10	0.2	--
Molybdenum	3500	<10	350	--
Nickel	2000	18	20	--
Selenium	100	<1	1	--
Silver	500	<2	5	--
Thallium	700	<5	7	--
Vanadium	2400	34	24	--
Zinc	5000	66	250	--

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY JRB

APPROVED BY [illegible] DATE 5/31/85

C.A.M. METALS
Data Sheet

SAMPLE ID: Composite

CAL ID: 20947-B5A-C

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	--
Antimony	500	<5	15	--
Barium	10000	760	100	--
Beryllium	75	1.5	0.75	--
Cadmium	100	0.55	1	--
*Chromium III/VI	2500/500	19	560/5	--
Cobalt	8000	9.3	80	--
Copper	2500	29	25	--
Lead	1000	30	5	--
Mercury	20	<0.10	0.2	--
Molybdenum	3500	<10	350	--
Nickel	2000	20	20	--
Selenium	100	<1	1	--
Silver	500	<2	5	--
Thallium	700	<5	7	--
Vanadium	2400	30	24	--
Zinc	5000	101	250	--

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY JRB

APPROVED BY [illegible] DATE 5/21/85

C.A.M. METALS
Data Sheet

SAMPLE ID: Composite

CAL ID: 20947-B6-C

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	--
Antimony	500	<5	15	--
Barium	10000	96	100	--
Beryllium	75	1.7	0.75	--
Cadmium	100	<0.5	1	--
*Chromium III/VI	2500/500	16	560/5	--
Cobalt	8000	6.4	80	--
Copper	2500	18	25	--
Lead	1000	6.5	5	--
Mercury	20	<0.10	0.2	--
Molybdenum	3500	<10	350	--
Nickel	2000	14	20	--
Selenium	100	<1	1	--
Silver	500	<2	5	--
Thallium	700	<5	7	--
Vanadium	2400	27	24	--
Zinc	5000	44	250	--

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY JRB

APPROVED BY [illegible] DATE 5/31/85

C.A.M. METALS
Data Sheet

SAMPLE ID: Composite

CAL ID: 20947-44

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachi Four (mg/L
Arsenic	500	<5	5	--
Antimony	500	<5	15	--
Barium	10000	2520	100	--
Beryllium	75	1.5	0.75	--
Cadmium	100	0.85	1	--
*Chromium III/VI	2500/500	27	560/5	--
Cobalt	8000	11	80	--
Copper	2500	35	25	--
Lead	1000	88	5	--
Mercury	20	<0.10	0.2	--
Molybdenum	3500	<10	350	--
Nickel	2000	27	20	--
Selenium	100	<1	1	--
Silver	500	<2	5	--
Thallium	700	<5	7	--
Vanadium	2400	41	24	--
Zinc	5000	116	250	--

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY JRB

APPROVED BY [illegible] DATE 5/31/85

ATTACHMENT 2

LABORATORY REPORTS FOR SOIL SAMPLES COLLECTED IN MARCH 1986 BY DAMES & MOORE

California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

March 24, 1986
Lab No. 24056
Received: 3-11-86
Project: Santa Fe Springs
Project #13262-009-01

Bob Troutman
Dames & Moore
812 Anacapa Street, Suite A
Santa Barbara, CA 93101

Twenty-nine soil samples were received under chain of custody in four-inch metal core tubes to be analyzed for CAM-TTLC Metals and Volatile Aromatics (EPA 8020).

CAL I.D.	SAMPLE I.D.	
24056-1	B-5E-1	3-7-86
-2	B-5E-2	3-7-86
-3	B-5E-3	3-7-86
-4	B-5E-4	3-7-86
-5	B-5E-5	3-7-86
-6	B-5F-1	3-7-86
-7	B-5F-2	3-7-86
-8	B-5F-3	3-7-86
-9	B-5F-4	3-7-86
-10	B-5G-1	3-7-86
-11	B-5G-2	3-7-86
-12	B-5G-3	3-7-86
-13	B-5G-4	3-7-86
-14	B-5G-5	3-7-86

CAL I.D.	SAMPLE I.D.	
24056-15	B-5G-6	3-7-86
-16	B-5H-1	3-7-86
-17	B-5H-2	3-7-86
-18	B-5H-3	3-7-86
-19	B-5H-4	3-7-86
-20	B-5B-1	3-7-86
-21	B-5C-2	3-6-86
-22	B-5C-3	3-6-86
-23	B-5C-4	3-6-86
-24	B-5C-5	3-6-86
-25	B-5C-6	3-6-86
-26	B-5D-1	3-6-86
-27	B-5D-2	3-6-86
-28	B-5D-3	3-6-86
-29	B-5D-4	3-6-86

RESULTS:

Samples 24056-2,-5,-11,-16,-20,-21 and -27 were analyzed for CAM-TTLC Metals. Sample 24056-3 was analyzed for Volatile Aromatics. Results are on the attached data sheets.

Charles J. Soderquist, PhD
Vice President

Dennis E. Gall
Extractions Lab Supervisor

dlc

This report is for the sole and exclusive use of the client to whom it is addressed.
Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise

C.A.M. METALS

California Title 22 Protocol

Data Sheet

SAMPLE ID: B-5C-2 3-6-86

CAL ID: 24056-21

	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<40	5	xx
Antimony	500	<40	15	xx
Barium	10000	1120	100	xx
Beryllium	75	<0.5	0.75	xx
Cadmium	100	0.55	1	xx
*Chromium III/VI	2500/500	18	560/5	xx
Cobalt	8000	10	80	xx
Copper	2500	30	25	xx
Lead	1000	52	5	xx
Mercury	20	<0.10	0.2	xx
Molybdenum	3500	<10	350	xx
Nickel	2000	22	20	xx
Selenium	100	<5.0	1	xx
Silver	500	<2.0	5	xx
Thallium	700	<50	7	xx
Vanadium	2400	26	24	xx
Zinc	5000	83	250	xx

*Reported as Cr III plus Cr VI.

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY [illegible]

APPROVED BY JRB

C.A.M. METALS
California Title 22 Protocol
Data Sheet

SAMPLE ID: B-5D-2 3-6-86

CAL ID: 24056-27

	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<40	5	xx
Antimony	500	<40	15	xx
Barium	10000	615	100	xx
Beryllium	75	<0.5	0.75	xx
Cadmium	100	<0.5	1	xx
*Chromium III/VI	2500/500	20	560/5	xx
Cobalt	8000	9.5	80	xx
Copper	2500	27	25	xx
Lead	1000	37	5	xx
Mercury	20	<0.10	0.2	xx
Molybdenum	3500	<10	350	xx
Nickel	2000	18	20	xx
Selenium	100	<5.0	1	xx
Silver	500	<2.0	5	xx
Thallium	700	<50	7	xx
Vanadium	2400	31	24	xx
Zinc	5000	73	250	xx

*Reported as Cr III plus Cr VI.

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY [signature]

APPROVED BY JRB

C.A.M. METALS

California Title 22 Protocol

Data Sheet

SAMPLE ID: B-5E-2 3-7-86

CAL ID: 24056-2

	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<40	5	xx
Antimony	500	<40	15	xx
Barium	10000	473	100	xx
Beryllium	75	<0.5	0.75	xx
Cadmium	100	<0.5	1	xx
*Chromium III/VI	2500/500	16	560/5	xx
Cobalt	8000	8.3	80	xx
Copper	2500	22	25	xx
Lead	1000	17	5	xx
Mercury	20	0.10	0.2	xx
Molybdenum	3500	<10	350	xx
Nickel	2000	15	20	xx
Selenium	100	<5.0	1	xx
Silver	500	<2.0	5	xx
Thallium	700	<50	7	xx
Vanadium	2400	28	24	xx
Zinc	5000	50	250	xx

*Reported as Cr III plus Cr VI.

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY RW

APPROVED BY JRB

C.A.M. METALS

California Title 22 Protocol

Data Sheet

SAMPLE ID: B-5E-5 3-7-86

CAL ID: 24056-5

	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<40	5	xx
Antimony	500	<40	15	xx
Barium	10000	49	100	xx
Beryllium	75	<0.5	0.75	xx
Cadmium	100	<0.5	1	xx
#Chromium III/VI	2500/500	8.4	560/5	xx
Cobalt	8000	4.5	80	xx
Copper	2500	1.0	25	xx
Lead	1000	<5.0	5	xx
Mercury	20	<0.10	0.2	xx
Molybdenum	3500	<10	350	xx
Nickel	2000	8.2	20	xx
Selenium	100	<5.0	1	xx
Silver	500	<2.0	5	xx
Thallium	700	<50	7	xx
Vanadium	2400	16	24	xx
Zinc	5000	23	250	xx

#Reported as Cr III plus Cr VI.

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY AW

APPROVED BY JRB

C.A.M. METALS

California Title 22 Protocol

Data Sheet

SAMPLE ID: B-5G-2 3-7-86

CAL ID: 24056-11

	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<40	5	xx
Antimony	500	<40	15	xx
Barium	10000	248	100	xx
Beryllium	75	<0.5	0.75	xx
Cadmium	100	<0.5	1	xx
*Chromium III/VI	2500/500	18	560/5	xx
Cobalt	8000	9.5	80	xx
Copper	2500	35	25	xx
Lead	1000	93	5	xx
Mercury	20	<0.10	0.2	xx
Molybdenum	3500	<10	350	xx
Nickel	2000	17	20	xx
Selenium	100	<5.0	1	xx
Silver	500	<2.0	5	xx
Thallium	700	<50	7	xx
Vanadium	2400	31	24	xx
Zinc	5000	127	250	xx

*Reported as Cr III plus Cr VI.

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY RW

APPROVED BY JRB

ATTACHMENT 3

LETTER FROM CALIFORNIA DEPARTMENT OF HEALTH SERVICES

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY

GEORGE DEUKMEJIAN, Governor

DEPARTMENT OF HEALTH SERVICES
107 SOUTH BROADWAY, ROOM B 48
LOS ANGELES, CA 90012

George Beaty
Assistant Director for Planning
P.O. Box 11710
Santa Fe Springs, CA 90670

June 5, 1986

Dear Mr. Beaty:

WALKER PROPERTY - BLOOMFIELD AVENUE and LAKELAND ROAD, SANTA FE SPRINGS

The Department has reviewed the May 7, 1986 submittal by Dames & Moore. The results of the recent investigation, along with information previously submitted reveal no significantly elevated levels of contaminants in the soil in the eastern portion of the subject site ("Area to be capped," figure 1 attached to the May 7 submittal). These comments are limited to that area.

As you are aware, there were some low levels of organic vapors detected in two of the borings. This could be related to contaminants which were not detected or it may indicate general conditions in the area. The levels detected, when viewed in light of the overall investigation, do not appear to represent a significant problem. You may, however, wish to directly assess the presence of such vapors and consider the need for mitigation measures as a part of development proposals.

Although the Department has no objections to Dames & Moore's proposal to cap or otherwise limit surface water infiltration, such measures do not appear necessary based on the information provided.

If you have additional questions regarding this matter, please contact Maxine Richey at this office.

Sincerely,

Jim Smith

Jim Smith, Program Manager
Southern California Section
Toxic Substances Control Division

ATTACHMENT 4

CERTIFIED ANALYTICAL REPORTS OF SOIL SAMPLES COLLECTED IN JULY 1988 BY EMCON ASSOCIATES

California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

April 28, 1986
Lab No. 24528
Received: 4/22/86
Project: 13262-009-01
Walker Properties

Bob Troutman
Dames & Moore
812 Anacapa Street, Ste. A
Santa Barbara, CA 93101

Five soil samples were resubmitted in four inch core tubes to be analyzed for PCB's (EPA 8080). RUSH.

CAL I.D.	Sample I.D.	Old CAL I.D.	
24528-1	B-5E-3	24056-3	3/7/86
-2	B-5D-3	24056-28	3/6/86
-3	B-5E-2	24234-1	3/7/86
-4	B-5C-2	24234-4	3/6/86
-5	B-5D-2	24234-5	3/6/86

RESULTS

Analysis by GC-ECD (EPA 8080) indicated that no PCB's were present. The detection limit was 0.1 mg/Kg (ppm)

Charles J. Soderquist, PhD
President

Kirk Pocan
GC Lab Supervisor

jb

This report is for the sole and exclusive use of the client to whom it is addressed.
Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

C.A.M. METALS

California Title 22 Protocol

Data Sheet

SAMPLE ID: B-5H-1 3-7-86

CAL ID: 24056-16

	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<40	5	xx
Antimony	500	<40	15	xx
Barium	10000	526	100	xx
Beryllium	75	<0.5	0.75	xx
Cadmium	100	0.71	1	xx
*Chromium III/VI	2500/500	20	560/5	xx
Cobalt	8000	22	80	xx
Copper	2500	33	25	xx
Lead	1000	98	5	xx
Mercury	20	<0.10	0.2	xx
Molybdenum	3500	<10	350	xx
Nickel	2000	20	20	xx
Selenium	100	<5.0	1	xx
Silver	500	<2.0	5	xx
Thallium	700	<50	7	xx
Vanadium	2400	26	24	xx
Zinc	5000	125	250	xx

*Reported as Cr III plus Cr VI.

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY RW

APPROVED BY JRB

VOLATILE AROMATICS
EPA Method 8020
Data Sheet

Sample I.D. B-5E-3 3-7-86 CAL I.D. 24056-3

	ug/Kg (ppb)
benzene	<500
toluene	<500
chlorobenzene	<500
ethylbenzene	<500
xylene (total*)	<500
dichlorobenzene (total*)	<500

* (includes o, m & p isomers)

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY [signature] APPROVED BY [signature]

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92680
AREA CODE 714 • 730-6239
AREA CODE 213 • 225-1564
CABLE: TRUELABS

CLIENT **Emcon**
3300 North San Fernando Blvd.
Burbank, CA 91504
Attention: K. Patton

DATE **July 18, 1988**

RECEIVED **July 8, 1988**

LABORATORY NO. **29945**

SAMPLE **Soil Samples**
Project #:B15-01.01; Project Name: Walker

INVESTIGATION **As Requested**

RESULTS

Sample Identification	Milligrams per Kilogram	
	Barium (Ba, 7080)	Lead (Pb, 7420)
B-1 5'	137	12.6
B-2 5'	169	14.5
B-3 5'	123	12.5
B-4 5'	120	11.5
B-5 5'	91.3	13.8
B-6 5'	96.7	17.9
B-7 5'	108	12.0
B-8 5'	63.9	9.5
B-9 5'	47.1	8.9
B-10 5'	640	84.9
B-11 5'	321	32.0
B-12 5'	107	10.4
B-13 5'	126	16.6

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-1 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-1

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-1 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-1

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-1
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-2 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-2

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-2 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-2

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-2
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-3 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-3

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-3 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-3

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-3
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-4 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-4

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506

ATTENTION: K. Patton

SAMPLE: B-4 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-4

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-4
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-5 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-5

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-5 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-5

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-5
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-6 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-6

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-6 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-6

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-6
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-7 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-7

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506

ATTENTION: K. Patton

SAMPLE: B-7 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-7

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-7
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-8 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-8

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-8 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-8

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-8
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-9 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-9

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-9

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-9

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-9
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-10 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-10

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-10 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-10

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-10
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-11 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-11

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-11 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-11

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-11
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-12 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-12

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-12

ATTENTION: K. Patton
SAMPLE: B-12 5'

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-12
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Blvd.
Burbank, Calif 91504
ATTENTION: K. Patton
SAMPLE: B-13 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-13

INVESTIGATION: Chlorinated Pesticides/PCB's by GC-EDC (EPA 8080)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)
Aldrin	0.5 ug/kg	ND
alpha-BHC	0.5 ug/kg	ND
beta-BHC	0.5 ug/kg	ND
delta-BHC	0.5 ug/kg	ND
gamma-BHC (Lindane)	0.5 ug/kg	ND
Chlorodane	0.5 ug/kg	ND
4,4-DDD	0.5 ug/kg	ND
4-4'DDE	0.5 ug/kg	ND
4-4'DDT	0.5 ug/kg	ND
Dieldrin	0.5 ug/kg	ND
Endosulfan I (alpha)	0.5 ug/kg	ND
Endosulfan II (beta)	0.5 ug/kg	ND
Endosulfan sulfate	0.5 ug/kg	ND
Endrin	0.5 ug/kg	ND
Endrin aldehyde	0.5 ug/kg	ND
Heptachlor	0.5 ug/kg	ND
Heptachlor epoxide	0.5 ug/kg	ND
Toxaphene	0.5 ug/kg	ND
PCB-1016	100 ug/kg	ND
PCB-1221	100 ug/kg	ND
PCB-1232	100 ug/kg	ND
PCB-1242	100 ug/kg	ND
PCB-1248	100 ug/kg	ND
PCB-1254	100 ug/kg	ND
PCB-1260	100 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CLIENT: Emcon
3300 N. San Fernando Rd.
Burbank, CA 91506
ATTENTION: K. Patton
SAMPLE: B-13 5'

DATE: July 18, 1988
RECEIVED: July 8, 1988
LAB NUMBER: 29945-13

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Benzene	500.0 ug/kg	ND
Bromodichloromethane	500.0 ug/kg	ND
Bromoform	500.0 ug/kg	ND
Bromomethane	500.0 ug/kg	ND
Carbon Tetrachloride	500.0 ug/kg	ND
Chlorobenzene	500.0 ug/kg	ND
Chloroethane	500.0 ug/kg	ND
2-Chlorethyvinyl ether	500.0 ug/kg	ND
Chloroform	500.0 ug/kg	ND
Chloromethane	500.0 ug/kg	ND
Dibromochloromethane	500.0 ug/kg	ND
1,2-Dichlorobenzene	500.0 ug/kg	ND
1,3-Dichlorobenzene	500.0 ug/kg	ND
1,4-Dichlorobenzene	500.0 ug/kg	ND
Dichlorodifluoromethane	500.0 ug/kg	ND
1,1-Dichloroethane	500.0 ug/kg	ND
1,2-Dichloroethane	500.0 ug/kg	ND
1,1-Dichloroethene	500.0 ug/kg	ND
trans-1,2-Dichloroethene	500.0 ug/kg	ND
1,2-Dichloropropane	500.0 ug/kg	ND
cis-1,3-Dichloropropene	500.0 ug/kg	ND
trans-1,3-Dichloropropene	500.0 ug/kg	ND
Ethyl Benzene	500.0 ug/kg	ND
Methylene Chloride	500.0 ug/kg	ND
Methyl Ethyl Ketone	500.0 ug/kg	ND
Methyl Isobutyl Ketone	500.0 ug/kg	ND
1,1,2,2-Tetrachloroethane	500.0 ug/kg	ND
Tetrachloroethene	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 29945-13
CLIENT: Emcon

INVESTIGATION: Purgeable Organics (Volatiles) by GC-MS (EPA 8240)

Constituent	Approximate Detection Limit*	Concentration ug/kg**
Toluene	500.0 ug/kg	ND
1,1,1-Trichloroethane	500.0 ug/kg	ND
1,1,2-Trichloroethane	500.0 ug/kg	ND
Trichloroethene	500.0 ug/kg	ND
Trichlorofluoromethane	500.0 ug/kg	ND
Vinyl Chloride	500.0 ug/kg	ND
Xylenes	500.0 ug/kg	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND = Not detected, below detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg

Julia Nayberg, Manager
Inorganic Chemistry

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92680
AREA CODE 714 • 730-6239
AREA CODE 213 • 225-1564
CABLE: TRUELABS

CLIENT Emcon
3300 North San Fernando Boulevard
Burbank, California 91504
Attn: K. Patton

DATE 7/27/88

RECEIVED 7/21/88

LABORATORY NO. 30353

SAMPLE Soil Sample
Project No. 815-01.01
Project Name: Walker

INVESTIGATION Lead Content as per Title 22 Calfornia Code of Regulations

RESULTS

PARAMETER	STLC	MILLIGRAMS PER LITER
Lead (Pb, 7420)	5.0	2.9

Respectfully Submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager
Inorganic Chemistry

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.