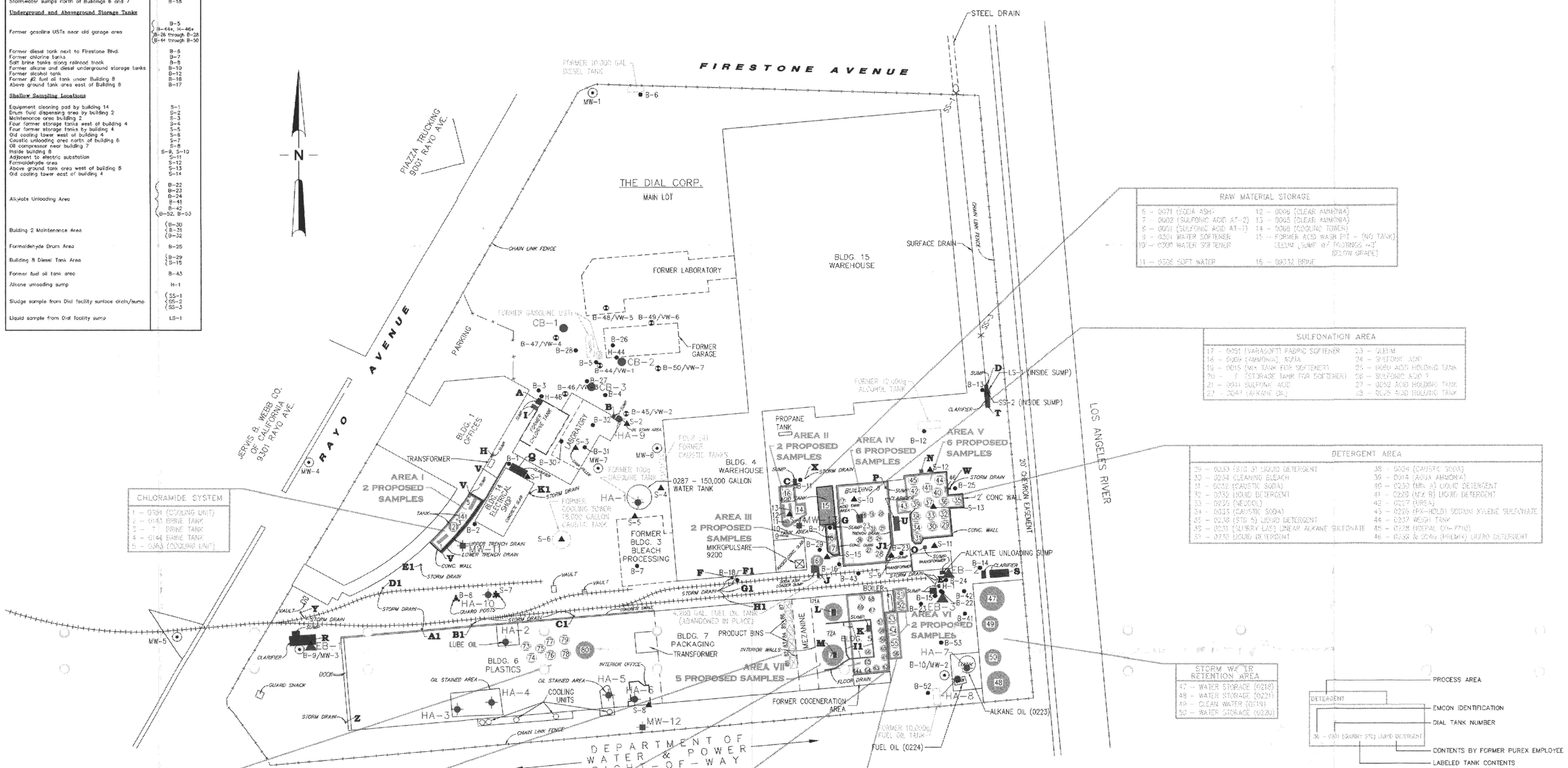
Sampling Summary

Sample Location	Sample Designation
Main Facility	
Sumps and Clarifiers	
Clarifier between Buildings 2 and 14	B-1
Trench between Buildings 1 and 14	B-2
Pump sump next to the Building 2 bleach tank	B-3
Poly drum sump north of Building 2 lab	B-4
Clarifiers near south gate(s)	B-9
Sump east of Building 4 and old cooling tower	B-11
Drain sump by Building 15	B-13
Clarifier near stormwater retention tanks	B-14
Alkylate unloading sump	B-15
Stormwater sumps north of Buildings 6 and 7	B-18
Underground and Aboveground Storage Tanks	
Former gasoline USTs near old garage area	B-3, B-44a, H-46*, B-26 through B-28, B-44 through B-50
Former diesel tank next to Firestone Blvd.	B-6
Former chlorine tanks	B-7
Soft brine tanks along railroad track	B-8
Former alkane and diesel underground storage tanks	B-10
Former alcohol tank	B-12
Former 10 fuel oil tank under Building 8	B-16
Above ground tank area east of Building 8	B-17
Shallow Sampling Locations	
Equipment cleaning pad by building 14	S-1
Drum fluid dispensing area by building 2	S-2
Maintenance area building 2	S-3
Four former storage tanks west of building 4	S-4
Four former storage tanks by building 4	S-5
Old cooling tower west of building 4	S-6
Caustic unloading area north of building 6	S-7
Oil compressor near building 7	S-8
Inside building 8	S-9, S-10
Adjacent to electric substation	S-11
Formaldehyde area	S-12
Above ground tank area west of building 8	S-13
Old cooling tower east of building 4	S-14
Alkylate Unloading Area	B-22, B-23, B-24, B-41, B-42, B-52, B-53
Building 2 Maintenance Area	B-30, B-31, B-32
Formaldehyde Drum Area	B-25
Building 8 Diesel Tank Area	B-29, S-15
Former fuel oil tank area	B-43
Alkane unloading sump	H-1
Sludge sample from Dial facility surface drain/sump	SS-1, SS-2, SS-3
Liquid sample from Dial facility sump	LS-1



CHLORAMIDE SYSTEM
1 - 0194 (COOLING UNIT)
2 - 0141 BRINE TANK
3 - ? BRINE TANK
4 - 0194 BRINE TANK
5 - 0363 (COOLING UNIT)

RAW MATERIAL STORAGE	
5 - 0071 (SODA ASH)	12 - 0009 (CLEAR AMMONIA)
7 - 0002 (SULFONIC ACID AT-2)	13 - 0005 (CLEAR AMMONIA)
8 - 0001 (SULFONIC ACID AT-1)	14 - 0008 (COOLING TOWER)
9 - 0301 WATER SOFTENER	15 - FORMER ACID WASH PIT - (NO TANK) SEDUM (SUMP w/ FROTINGS ~3' BELOW GRADE)
10 - 0300 WATER SOFTENER	
11 - 0306 SOFT WATER	16 - 0232 BRINE

SULFONATION AREA	
17 - 0051 (VARASOFT FABRIC SOFTENER)	23 - ALEUM
18 - 0009 (AMMONIA) ACMA	24 - SULFONIC ACID
19 - 0015 (MIX TANK FOR SOFTENER)	25 - 0080 ACID HOLDING TANK
20 - ? (STORAGE TANK FOR SOFTENER)	26 - SULFONIC ACID ?
21 - 0041 SULFONIC ACID	27 - 0050 ACID HOLDING TANK
22 - 0047 (ALKANE OIL)	28 - 0025 ACID HOLDING TANK

DETERGENT AREA	
29 - 0233 (STG 3) LIQUID DETERGENT	38 - 0034 (CAUSTIC SODA)
30 - 0234 CLEANING BLEACH	39 - 0014 (AQUA AMMONIA)
31 - 0035 (CAUSTIC SODA)	40 - 0230 (MIX A) LIQUID DETERGENT
32 - 0232 (LIQUID DETERGENT)	41 - 0229 (MIX B) LIQUID DETERGENT
33 - 0235 (NEOCOL)	42 - 0227 (UREA)
34 - 0023 (CAUSTIC SODA)	43 - 0226 (PIX-HOLD) SODIUM XYLENE SULFONATE
35 - 0238 (STG 5) LIQUID DETERGENT	44 - 0237 WEIGH TANK
36 - 0231 (SLURRY LAS) LINEAR ALKANE SULFONATE	45 - 0228 (HOPAL DW-7710)
37 - 0230 LIQUID DETERGENT	46 - 0236 & 0240 (PHENIX) LIQUID DETERGENT

STORM WATER RETENTION AREA
47 - WATER STORAGE (0218)
48 - WATER STORAGE (0221)
49 - CLEAN WATER (0219)
50 - WATER STORAGE (0220)

PLASTIC MIX TANKS (ELEVATED OFF FLOOR)	
73 - 0603	PLASTIC RESIN
74 - 0601	PLASTIC RESIN
75 - 0602	PLASTIC RESIN
76 - 0605	PLASTIC RESIN
77 - 0604	PLASTIC RESIN
78 - 0544	PLASTIC RESIN
79 - 0605	PLASTIC RESIN
80 - 0598	PLASTIC RESIN

DRY PRODUCT STORAGE
81 - 0491 FINISHED PRODUCT
82 - 0492 FINISHED PRODUCT
83 - 0493 FINISHED PRODUCT
84 - 0494 FINISHED PRODUCT
85 - 0495 FINISHED PRODUCT
86 - 0496 FINISHED PRODUCT
87 - 0497 FINISHED PRODUCT

CONTINUOUS MIX TANKS
64 - 0125 DETERGENT
64A - 0124 WET COLLECTOR/DUST SCRUBBER
65 - 0123 DETERGENT
66 - 20646 DETERGENT
67 - 0141 DETERGENT
68 - 0136 DETERGENT
69 - 0138 DETERGENT
70 - 0137 WET COLLECTOR/DUST SCRUBBER
71 - ? DETERVENT (SPRAY DRYER)
71A - ? PRP MIX
72 - 10975 DETERGENT (SPRAY DRYER)
72A - ? PROCESS TANK

PRODUCT STORAGE
57 - 0108 DETERGENT
58 - 0109 DETERGENT
59 - 0110 DETERGENT
60 - 0111 DETERGENT
61 - 0112 DETERGENT
62 - 0114 DETERGENT
63 - 0113 DETERGENT

SILO STORAGE
51 - 0076 (BASA)
52 - 0075 (NACL)
53 - 0087 (SODA ASH)
54 - 0088 (SODA ASH)
55 - 0094 (SILICA)
56 - 0093 (SILICA)

EXPLANATION

- HA-10 ● PROPOSED HAND AUGER BORING
- MW-13 ■ PROPOSED GROUNDWATER MONITORING WELL
- CB-3 ● PROPOSED CONFIRMATORY SOIL BORING
- EB-3 ▲ PROPOSED EXPLORATORY BORING
- B-44/VW-1 ⊕ EXPLORATORY BORING CONVERTED TO VAPOR EXTRACTION WELL
- MW-1 ⊙ GROUNDWATER MONITORING WELL
- B-1 ● EXPLORATORY SOIL BORING
- H-1, H-44, H-45 ● HAND AUGER BORING
- S-1 ▲ SURFACE SAMPLE LOCATION
- SS-1 X SLUDGE SAMPLE
- LS-1 ○ LIQUID SAMPLE

NOTE:
1.) UST = UNDERGROUND STORAGE TANK.

- ■ WASTE MANAGEMENT FACILITIES THAT HAVE BEEN PREVIOUSLY ASSESSED
- ■ WASTE MANAGEMENT FACILITIES THAT HAVE NOT BEEN ASSESSED TO DATE
- AREA II □ ABOVE GROUND TANK AREAS PROPOSED FOR CLOSURE SAMPLING SHOWING NUMBER OF PROPOSED SAMPLES (1 SAMPLE EVERY 1,000 sq. ft. OF SURFACE AREA OR MINIMUM OF 2 SAMPLES)
- I1 — WASTE MANAGEMENT FACILITIES WITH LETTER DESIGNATION

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

BENCHMARK:

CITY OF SOUTHGATE BENCHMARK

THE TOP OF A WATER VALVE HANDHOLE IN THE ASPHALT PARKING LOT AT THE SOUTHWEST CORNER OF RAYO AVENUE AND SOUTHERN AVENUE.

ELEVATION = 104.986

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 1/23/96 DWN BY KK DES BY CLB CHK BY MEF APP BY

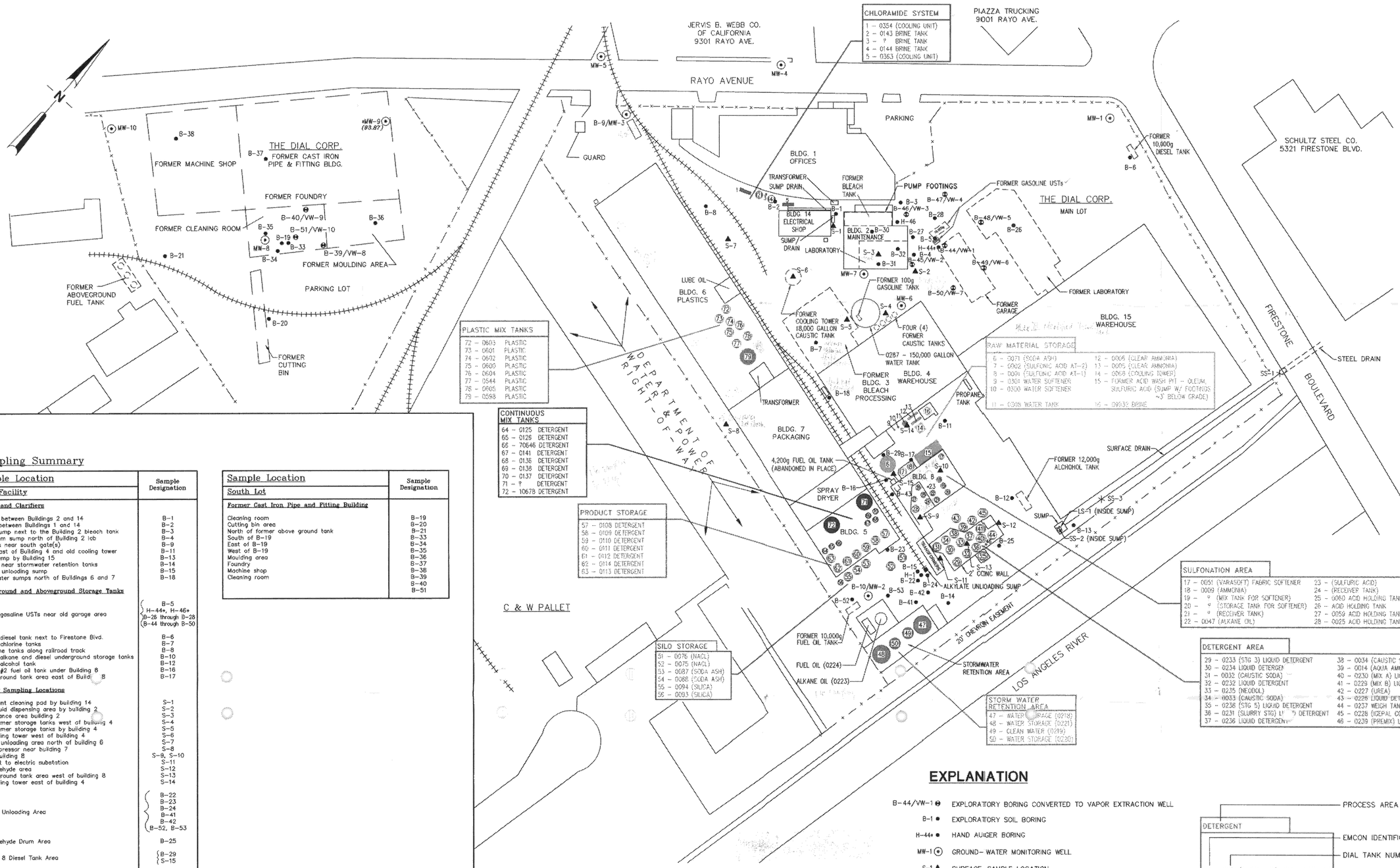
EMCON

THE DIAL CORPORATION
MAIN FACILITY
9300 RAYO AVENUE
SOUTH GATE, CALIFORNIA

PROPOSED SOIL BORINGS, MONITORING WELLS, AND CLOSURE SAMPLES FOR WMUs AND ACT AREAS TO BE CLOSED

DRAWING NO. 1
PROJECT NO. 20H93-001.007

CADD FILE:UPDATE2
DATE LAST REVISED:06/20/96



Sampling Summary

Sample Location	Sample Designation
Main Facility	
Sumps and Clarifiers	
Clarifier between Buildings 2 and 14	B-1
Trench between Buildings 1 and 14	B-2
Pump sump next to the Building 2 bleach tank	B-3
Poly drum sump north of Building 2 lab	B-4
Clarifiers near south gate(s)	B-9
Sump east of Building 4 and old cooling tower	B-11
Drain sump by Building 15	B-13
Clarifier near stormwater retention tanks	B-14
Alkylate unloading sump	B-15
Stormwater sumps north of Buildings 6 and 7	B-18
Underground and Aboveground Storage Tanks	
Former gasoline USTs near old garage area	B-5, H-44*, H-46*, B-28 through B-28, B-44 through B-50
Former diesel tank next to Firestone Blvd.	B-6
Former chlorine tanks	B-7
Salt brine tanks along railroad track	B-8
Former alkane and diesel underground storage tanks	B-10
Former alcohol tank	B-12
Former #2 fuel oil tank under Building 8	B-16
Above ground tank area east of Building 8	B-17
Shallow Sampling Locations	
Equipment cleaning pad by building 14	S-1
Drum fluid dispensing area by building 2	S-2
Maintenance area building 2	S-3
Four former storage tanks west of building 4	S-4
Four former storage tanks by building 4	S-5
Old cooling tower west of building 4	S-6
Caustic unloading area north of building 6	S-7
Oil compressor near building 7	S-8
Inside building 8	S-9, S-10
Adjacent to electric substation	S-11
Formaldehyde area	S-12
Above ground tank area west of building 8	S-13
Old cooling tower east of building 4	S-14
Alkylate Unloading Area	B-22, B-23, B-24, B-41, B-42, B-52, B-53
Formaldehyde Drum Area	B-25
Building 8 Diesel Tank Area	B-29, S-15
Former fuel oil tank area	B-43
Alkane unloading sump	H-1
Sludge sample from Dial facility surface drain/sump	SS-1, SS-2, SS-3
Liquid sample from Dial facility sump	LS-1

Sample Location	Sample Designation
South Lot	
Former Cast Iron Pipe and Fitting Building	
Cleaning room	B-19
Cutting bin area	B-20
North of former above ground tank	B-21
South of B-19	B-33
East of B-19	B-34
West of B-19	B-35
Moulding area	B-36
Foundry	B-37
Machine shop	B-38
Cleaning room	B-39, B-40, B-51

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 9/6/95 DWN BY KK DES BY CLB CHK BY MEF APP BY

EMCON

THE DIAL CORPORATION
9300 RAYO AVENUE
SOUTH GATE, CALIFORNIA

SITE PLAN

DRAWING NO. 1
PROJECT NO. DH93-001.006

CADD FILE: NEWBASE
DATE LAST REVISED: 12/14/95

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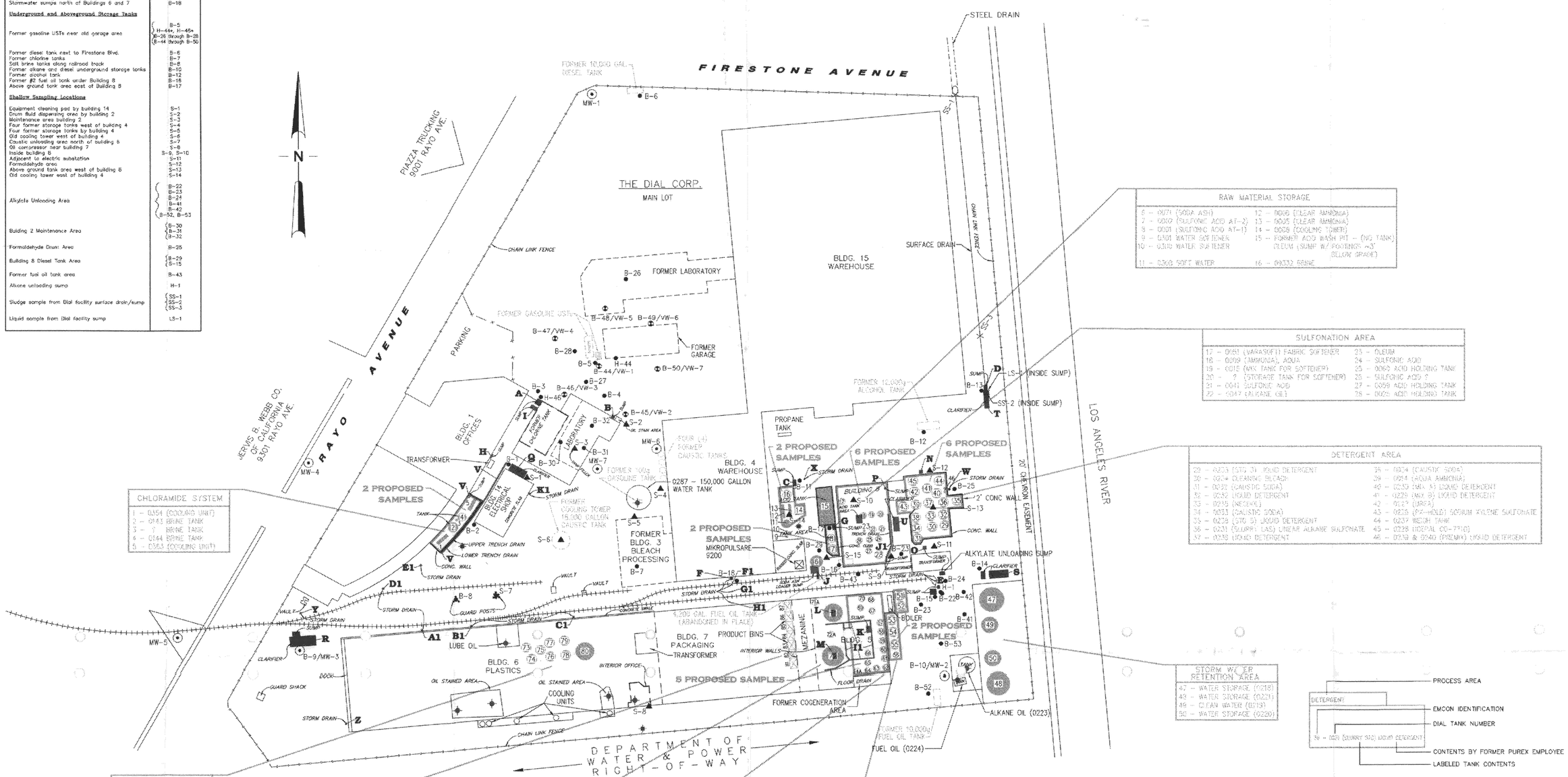
Sampling Summary

Sample Location	Sample Designation
Main Facility	
Sumps and Clarifiers	
Clarifier between Buildings 2 and 14	B-1
Trench between Buildings 1 and 14	B-2
Pump sump next to the Building 2 bleach tank	B-3
Poly drum sump north of Building 2 lab	B-4
Clarifiers near south gate(s)	B-9
Sump east of Building 4 and old cooling tower	B-11
Drain sump by Building 15	B-13
Clarifier near stormwater retention tanks	B-14
Alkylate unloading sump	B-15
Stormwater sumps north of Buildings 6 and 7	B-18
Underground and Aboveground Storage Tanks	
Former gasoline USTs near old garage area	B-5, H-44+, H-46+, B-28 through B-28, B-44 through B-50
Former diesel tank next to Firestone Blvd.	B-6
Former chlorine tanks	B-7
Salt brine tanks along railroad track	B-8
Former alkane and diesel underground storage tanks	B-10
Former alcohol tank	B-12
Former #2 fuel oil tank under Building 8	B-16
Above ground tank area east of Building 8	B-17
Shallow Sampling Locations	
Equipment cleaning pad by building 14	S-1
Drum fluid dispensing area by building 2	S-2
Maintenance area building 2	S-3
Four former storage tanks west of building 4	S-4
Four former storage tanks by building 4	S-5
Old cooling tower west of building 4	S-6
Caustic unloading area north of building 6	S-7
Oil compressor near building 7	S-8
Inside building 8	S-9, B-10
Adjacent to electric substation	S-11
Formaldehyde area	S-12
Above ground tank area west of building 8	S-13
Old cooling tower east of building 4	S-14
Alkylate Unloading Area	B-22, B-23, B-24, B-41, B-42, B-52, B-53
Building 2 Maintenance Area	B-30, B-31, B-32
Formaldehyde Drum: Area	B-25
Building 8 Diesel Tank Area	B-29, S-15
Former fuel oil tank area	B-43
Alkane unloading sump	H-1
Sludge sample from Dial facility surface drain/sump	SS-1, SS-2, SS-3
Liquid sample from Dial facility sump	LS-1



RAW MATERIAL STORAGE	
6 - 0071 (SODA ASH)	12 - 0006 (CLEAR AMMONIA)
7 - 0060 (SULFONIC ACID AT-2)	13 - 0005 (CLEAR AMMONIA)
8 - 0001 (SULFONIC ACID AT-1)	14 - 0008 (COOLING TOWER)
9 - 0301 WATER SOFTENER	15 - FORMER ACID WASH PIT - (NO TANK)
10 - 0310 WATER SOFTENER	OLEUM (SUMP W/ FOOTINGS ~3' BELOW GRADE)
11 - 0360 SOFT WATER	16 - 0032 BRINE

SULFONATION AREA	
17 - 0051 (VARASOFT) FABRIC SOFTENER	23 - OLEUM
18 - 0009 (AMMONIA), AQUA	24 - SULFONIC ACID
19 - 0015 (MIX TANK FOR SOFTENER)	25 - 0060 ACID HOLDING TANK
20 - ? (STORAGE TANK FOR SOFTENER)	26 - SULFONIC ACID ?
21 - 0041 SULFONIC ACID	27 - 0059 ACID HOLDING TANK
22 - 0047 (ALKANE OIL)	28 - 0025 ACID HOLDING TANK

DETERGENT AREA	
29 - 0203 (STD 3) LIQUID DETERGENT	38 - 0204 (CAUSTIC SODA)
30 - 0204 CLEANING BLEACH	39 - 0214 (AQUA AMMONIA)
31 - 0022 (CAUSTIC SODA)	40 - 0230 (MIX 4) LIQUID DETERGENT
32 - 0232 LIQUID DETERGENT	41 - 0228 (MIX 8) LIQUID DETERGENT
33 - 0235 (NEODOL)	42 - 0227 (UREA)
34 - 0033 (CAUSTIC SODA)	43 - 0236 (RX-HOLD) SODIUM XYLENE SULFONATE
35 - 0239 (STD 5) LIQUID DETERGENT	44 - 0237 WEIGH TANK
36 - 0231 (SLURRY LAS) LINEAR ALKANE SULFONATE	45 - 0228 (SODIUM CO-77)(I)
37 - 0238 (HONEY DETERGENT	46 - 0238 & 0240 (PREMIX) LIQUID DETERGENT

CHLORAMIDE SYSTEM
1 - 0354 (COOLING UNIT)
2 - 0141 BRINE TANK
3 - 1 BRINE TANK
4 - 0144 BRINE TANK
5 - 0351 (COOLING UNIT)

STORM WATER RETENTION AREA
47 - WATER STORAGE (0219)
48 - WATER STORAGE (0221)
49 - CLEAN WATER (0219)
50 - WATER STORAGE (0220)

DETERGENT
79 - 0239 (SOURCE STD) LIQUID DETERGENT

- PROCESS AREA
- EMCON IDENTIFICATION
- DIAL TANK NUMBER
- CONTENTS BY FORMER PUREX EMPLOYEE
- LABELED TANK CONTENTS

PLASTIC MIX TANKS (ELEVATED OFF FLOOR)	
73 - 0603	PLASTIC RESIN
74 - 0601	PLASTIC RESIN
75 - 0602	PLASTIC RESIN
76 - 0600	PLASTIC RESIN
77 - 0604	PLASTIC RESIN
78 - 0644	PLASTIC RESIN
79 - 0605	PLASTIC RESIN
80 - 0598	PLASTIC RESIN

DRY PRODUCT STORAGE
81 - 0491 FINISHED PRODUCT
82 - 0492 FINISHED PRODUCT
83 - 0493 FINISHED PRODUCT
84 - 0494 FINISHED PRODUCT
85 - 0495 FINISHED PRODUCT
86 - 0496 FINISHED PRODUCT
87 - 0497 FINISHED PRODUCT

CONTINUOUS MIX TANKS	
64 - 0125	DETERGENT
64A - 0124	WET COLLECTOR/DUST SCRUBBER
65 - 0126	DETERGENT
66 - 70646	DETERGENT
67 - 0141	DETERGENT
68 - 0136	DETERGENT
69 - 0138	DETERGENT
70 - 0137	WET COLLECTOR/DUST SCRUBBER
71 - ?	DETERGENT (SPRAY DRYER)
71A - ?	PRE MIX
72 - 18678	DETERGENT (SPRAY DRYER)
72A - ?	PROCESS TANK

PRODUCT STORAGE	
57 - 0108	DETERGENT
58 - 0109	DETERGENT
59 - 0110	DETERGENT
60 - 0111	DETERGENT
61 - 0112	DETERGENT
62 - 0114	DETERGENT
63 - 0115	DETERGENT

SILO STORAGE	
51 - 0076	(NACL)
52 - 0075	(NACL)
53 - 0087	(SODA ASH)
54 - 0088	(SODA ASH)
55 - 0094	(SILICA)
56 - 0093	(SILICA)

EXPLANATION

- PROPOSED HAND AUGER BORING
- PROPOSED GROUNDWATER MONITORING WELL
- B-44/VW-1 — EXPLORATORY BORING CONVERTED TO VAPOR EXTRACTION WELL
- MW-1 — GROUNDWATER MONITORING WELL
- B-1 — EXPLORATORY SOIL BORING
- H-1, H-44, H-46 — HAND AUGER BORING
- S-1 — SURFACE SAMPLE LOCATION
- SS-1 — SLUDGE SAMPLE
- LS-1 — LIQUID SAMPLE
- WASTE MANAGEMENT FACILITIES THAT HAVE BEEN PREVIOUSLY ASSESSED
- WASTE MANAGEMENT FACILITIES THAT HAVE NOT BEEN ASSESSED TO DATE
- ABOVE GROUND TANK AREAS PROPOSED FOR CLOSURE SAMPLING SHOWING NUMBER OF PROPOSED SAMPLES (1 SAMPLE EVERY 1,000 ft. OF SURFACE AREA OR MINIMUM OF 2 SAMPLES)
- I1 — WASTE MANAGEMENT FACILITIES WITH LETTER DESIGNATION

NOTE:
1.) UST = UNDERGROUND STORAGE TANK.

BENCHMARK:

CITY OF SOUTHGATE BENCHMARK

THE TOP OF A WATER VALVE HANDHOLE IN THE ASPHALT PARKING LOT AT THE SOUTHWEST CORNER OF RAYO AVENUE AND SOUTHERN AVENUE.

ELEVATION = 104.986

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 1/22/96 | DWN BY KK | DES BY CLB | CHK BY MET | APP BY

EMCON

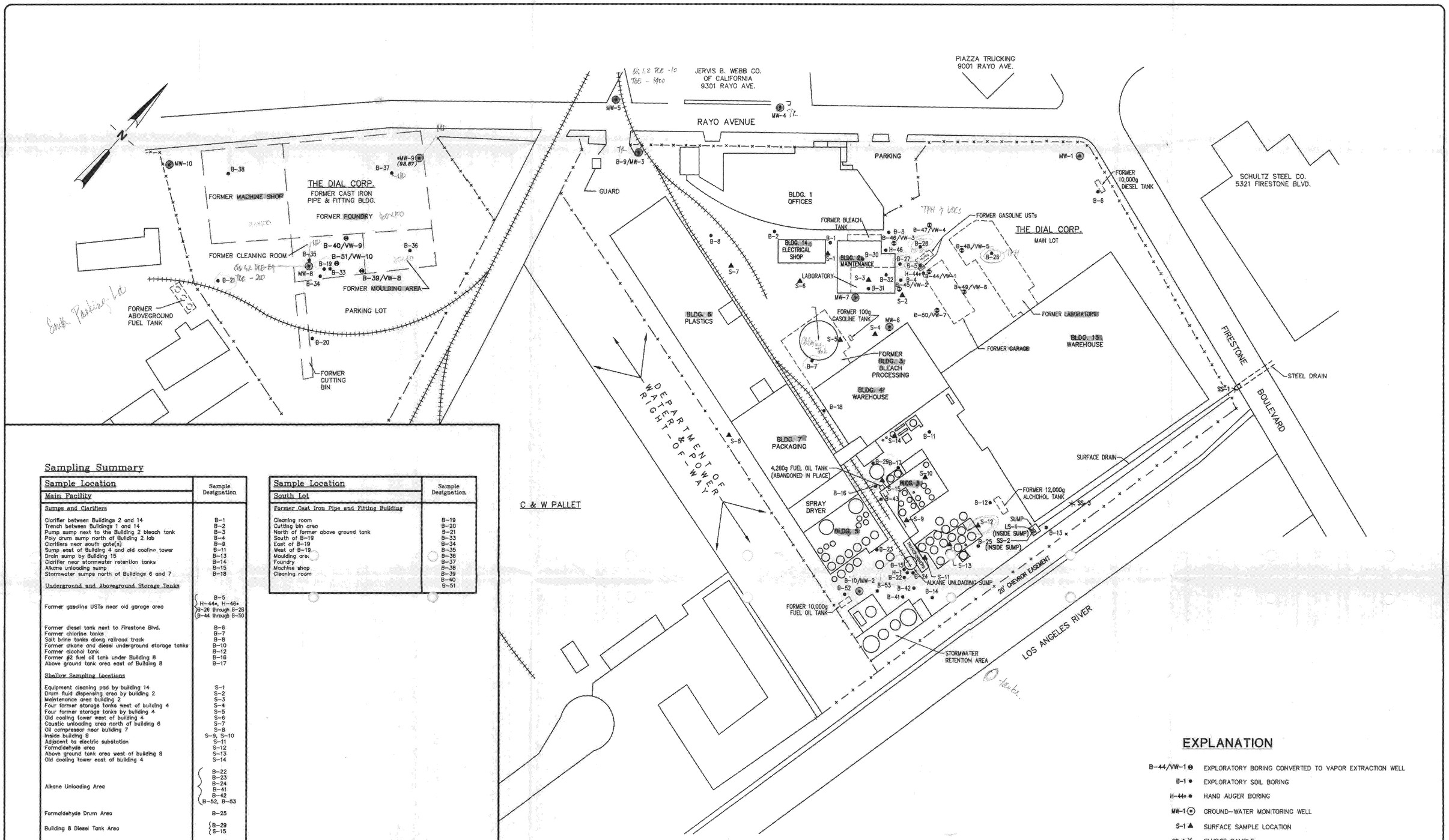
THE DIAL CORPORATION
MAIN FACILITY
9300 RAYO AVENUE
SOUTH GATE, CALIFORNIA

SITE PLAN SHOWING FACILITIESAND ABOVE GROUND TANKS TO BE CLOSED

DRAWING NO. 2

PROJECT NO. 20H93-001.007

CADD FILE:UPDATE2
DATE LAST REVISED 05/08/96



Sampling Summary

Sample Location	Sample Designation
Main Facility	
Sumps and Clarifiers	
Clarifier between Buildings 2 and 14	B-1
Trench between Buildings 1 and 14	B-2
Pump sump next to the Building 2 bleach tank	B-3
Poly drum sump north of Building 2 lab	B-4
Clarifiers near south gate(s)	B-9
Sump east of Building 4 and old cooling tower	B-11
Drain sump by Building 15	B-13
Clarifier near stormwater retention tanks	B-14
Alkane unloading sump	B-15
Stormwater sumps north of Buildings 6 and 7	B-18
Underground and Aboveground Storage Tanks	
Former gasoline USTs near old garage area	B-5, H-444, H-46*, B-26 through B-28, B-44 through B-50
Former diesel tank next to Firestone Blvd.	B-6
Former chlorine tanks	B-7
Salt brine tanks along railroad track	B-8
Former alkane and diesel underground storage tanks	B-10
Former alcohol tank	B-12
Former #2 fuel oil tank under Building 8	B-16
Above ground tank area east of Building 8	B-17
Shallow Sampling Locations	
Equipment cleaning pad by building 14	S-1
Drum fluid dispensing area by building 2	S-2
Maintenance area building 2	S-3
Four former storage tanks west of building 4	S-4
Four former storage tanks by building 4	S-5
Old cooling tower west of building 4	S-6
Caustic unloading area north of building 6	S-7
Oil compressor near building 7	S-8
Inside building 8	S-9, S-10
Adjacent to electric substation	S-11
Formaldehyde area	S-12
Above ground tank area west of building 8	S-13
Old cooling tower east of building 4	S-14
Alkane Unloading Area	B-22, B-23, B-24, B-41, B-42, B-52, B-53
Formaldehyde Drum Area	B-25
Building 8 Diesel Tank Area	B-29, S-15
Former fuel oil tank area	B-43
Alkane unloading sump	H-1
Sludge sample from Dial facility surface drain/sump	SS-1, SS-2, SS-3
Liquid sample from Dial facility sump	LS-1

Sample Location	Sample Designation
South Lot	
Former Cast Iron Pipe and Fitting Building	
Cleaning room	B-19
Cutting bin area	B-20
North of former above ground tank	B-21
South of B-19	B-33
East of B-19	B-34
West of B-19	B-35
Moulding area	B-36
Foundry	B-37
Machine shop	B-38
Cleaning room	B-39
	B-40
	B-51

EXPLANATION

- B-44/VW-1 — EXPLORATORY BORING CONVERTED TO VAPOR EXTRACTION WELL
- B-1 — EXPLORATORY SOIL BORING
- H-44 — HAND AUGER BORING
- MW-1 — GROUND-WATER MONITORING WELL
- S-1 — SURFACE SAMPLE LOCATION
- SS-1 — SLUDGE SAMPLE
- LS-1 — LIQUID SAMPLE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 9/6/95 DWN BY KK CHK BY MEF
DES BY CLB APP BY

EMCON

THE DIAL CORPORATION
9300 RAYO AVENUE
SOUTH GATE, CALIFORNIA

SITE PLAN

DRAWING NO. 1

PROJECT NO. 0H93-001.006

CADD FILE: NEWBASE
DATE LAST REVISED: 09/20/95