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SOIL REMEDIATION REPORT

FOR

501 ELLIS STREET

MOUNTAIN VIEW, CALIFORNIA

Conducted November 6 to December 31, 1991

VOLUME II—APPENDICES

Submitted in Fulfillment of
the Requirements of U.S. EPA
CERCLA §106 Order, Docket No. 91-4

Prepared for

NEC Electronics Inc.

By

Bechtel Environmental, Inc.

San Francisco, California

March 1992

405 pages total

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This document was prepared in compliance with
Section IX.A.10 of the Administrative Order for Remedial
Design and Remedial Action, EPA Docket No. 91-4.

Janet L Argyres
Bechtel Environmental, Inc.

Michael O'Kiernan
NEC Electronics Inc.

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GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-01

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,518.3 E 1,549,732.5	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-6-91	11-6-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
13.8/86	0	10	na	44.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE "N" BLOWS % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.8					
							44.1				**0.0 - 0.7 ft: CONCRETE Slab.**	Concrete slab was diamond core drilled by subcontractor
							43.8				**0.7 - 1.0 ft: FILL**; gravelly	
SS 2.5	1.5	1.0	8 10 13								**1.0 - 8.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with ~25% silt and 0-20% fine to medium sand, trace of coarse sand, medium plasticity, firm, moist.	13:52 - began sampling at 1.0'. Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.5	1.4	12 16 17									
SS 2.5	1.5	1.5	6 8 10					5				
SS 2.5	1.5	1.3	12 13 13									
SS 2.5	1.5	1.5	6 8 11									
							36.3				**8.5 - 10.5 ft: Silty SAND**, (SM), Medium gray (N5) mottled with Light brown (5YR5/6), fine to medium sand, ~10% silt, trace subrounded gravel up to 1 cm, loose, slightly moist.	
SS 2.5	1.5	1.5	11 13 13									
SS 2.5	1.5	1.5	7 14 14					10				
							34.3				**10.5 - 11.0 ft: GRAVEL**, (GP)	
							33.8				**11.0 - 13.5 ft: SAND**, (SP), Medium gray (N5) mottled with Light brown (5YR5/6), medium sand with trace decomposed-granitic gravel, loose, moist.	
SS 2.5	1.5	1.5	14 19 16									
SS 2.5	1.5	1.5	6 10 14				31.3				**13.5 - 16.0 ft: Sandy SILT to Silty SAND**, (ML-SM); Medium gray (N5) mottled with Light brown (5YR5/6); silt and medium sand, loose, moist to wet.	15:54 - ceased augering at 13.0' - continued sampling to 16.0'.
SS 2.5	1.5	1.1	7 7 9					15				
							28.8				TOTAL DEPTH = 16.0 FT.	16:15 - terminated sampling at 16.0'. Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System

Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-02

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,508.9 E 1,549,727.5	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-7-91	11-7-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
13.3/83	0	10	na	44.9	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.9					
							44.4				**0.0 - 0.5 ft: CONCRETE Slab.**	Concrete slab was diamond core drilled by subcontractor
							43.9				**0.5 - 1.0 ft: FILL**, gravelly	
SP	1.5	1.0	7 8 8								**1.0 - 9.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Brownish black (5YR2/1) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with ~30% silt, white concretions or decomposed shells increasing with depth and react strongly with HCl, blocky structure, medium plasticity, firm, dry to slightly moist.	08:49 - began sampling at 1.0' Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.5	1.5	7 11 16									
SP	1.5	1.2	4 6 8					5				
SS 2.5	1.5	1.4	7 12 14									
SP	1.5	1.4	4 6 8									
SS 2.5	1.5	1.2	7 14 19				35.4					
							34.9	10			**9.5 - 10.0 ft: Sandy GRAVEL**, (GW); Olive gray (5Y4/1), rounded to subrounded gravel up to 4 cm, ~20% fine to medium sand, loose, dry to slightly moist.	
SP	1.5	1.2	6 7 11								**10.0 - 12.0 ft: SAND**, (SP); Dark yellowish orange (10YR6/6) to Light olive gray (5Y5/2), medium sand, ~5% subrounded gravel up to 4 cm, loose, slightly moist.	10:00 - encountered difficult drilling conditions at 11.5' - ceased augering but continued sampling to 16.0'
SS 2.5	1.5	1.5	14 22 23				32.9					
							32.4				**12.0 - 12.5 ft: Clayey SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with ~30% clay and pods of fine sand.	
SS 2.5	1.5	1.4	8 7 6									
							30.4				**12.5 - 14.5 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand, ~20% silt, ~10% subrounded gravel up to 3 cm, very moist.	
SS 2.5	1.5	1.5	5 5 5					15				
							28.9				**14.5 - 16.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2), silt with ~20% sand, ~5% subrounded gravel up to 0.5 cm, medium plasticity, soft, very moist to wet.	10:40 - terminated sampling at 16.0' Borehole backfilled with cement grout or cement-bentonite grout.
											TOTAL DEPTH = 16.0 FT.	

Soil description and classification by visual examination of sample using the Unified Soil Classification System.

Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street

Last Update: 01/27/92

HOLE NO. R-02

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-03

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,505.3 E 1,549,726.4	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-7-91	11-7-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
13.3/83	0	10	na	44.9	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN	SAMPLE REC. CORE REC.	SAMPLE BLOWS 6" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.9					
							44.4				**0.0 - 0.5 ft: CONCRETE Slab.**	Concrete slab was diamond core drilled by subcontractor.
							43.9				**0.5 - 1.0 ft: FILL**; Gravelly with mud.	
SS 2.5	1.5	1.3	11 14 15								**1.0 - 9.5 ft: Silty CLAY**, (CL); Olive gray (5Y3/2) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -20% silt, white concretions or decomposed shells increasing with depth and react strongly with HCl, blocky structure, low to medium plasticity, firm to stiff, dry.	12:09 - began sampling at 1.0' Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.5	1 5	13 14 15									
SS 2.5	1.5	1 5	6 8 12					5				
SS 2.5	1.5	1.3	11 19 17									
SP	1.5	1.2	4 7 9									
SS 2.5	1 5	1 2	7 13 25				35.4					
SP	1.5	1.1	14 20 16					10			**9.5 - 14.0 ft: Gravelly SAND**, (SP), Light olive gray (5Y5/2) to Light olive brown (5Y5/6), fine to medium sand, -30% subangular to subrounded gravel up to 4 cm, -10% silt, loose, slightly moist.	13.20 - encountered difficult drilling conditions at 10.0' - ceased augering but continued sampling to 16.0'.
SS 2.5	1 5	1 2	27 39 34									
SS 2 5	1.5	1.5	19 10 7				30.9					
SS 2.5	1.5	1.5	4 4 4					15			**14.0 - 16.0 ft: Gravelly, Sandy SILT**, (ML); Light olive brown (5Y5/6), silt with -30% fine to medium sand, -20% gravel, low plasticity, soft, very moist to wet.	
							28.9					
											TOTAL DEPTH = 16.0 FT.	14:24 - terminated sampling at 16.0'. Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System. Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-04

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,512.7 E 1,549,735.0	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-9-91	11-9-91	Clear Heart	Giddings Portable	4 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
14.2/89	0	10	na	44.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.7					
							44.4				**0.0 - 0.3 ft: ASPHALT Pavement**	07.51 - began drilling through asphalt.
SS 2.5	1.5	1.5	9 10 10				43.2				**0.3 - 1.5 ft: FILL**, Gravelly SAND, (SW); Yellowish gray (5Y7/2), well graded sand with -20% subrounded gravel up to 3 cm, loose, dry	08:06 - began sampling at 1.0'
SS 2.5	1.5	1.5	8 10 10								**1.5 - 9.0 ft: Silty CLAY**, (CL), Brownish black (5YR2/1) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -20% silt and trace sand, trace calcareous deposits increasing with depth to -20%, blocky structure, low to medium plasticity, firm, slightly moist	08:29 - steel sheet piling encountered at 1' depth, 2' from and parallel to building wall - sheet piling limited hole access to 4" OD solid-stem augers.
SP	1.5	1.5	4 5 5					5				Borehole advanced using truck-powered portable drill rig.
SS 2.5	1.5	1.5	6 10 11									
SP	1.5	1.2	3 6 7									
SS 2.5	1.5	1.5	5 12 26				35.7				**9.0 - 13.5 ft: Sandy GRAVEL**, (GP); Light olive gray (5Y5/2), subrounded gravel up to 4 cm, -30% medium sand, loose, moist	
SP	1.5	1.3	12 26 32					10				
SS 2.5	1.5	1.5	45 25 18									
SP	1.5	1.2	7 4 3				31.2				**13.5 - 16.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine to medium sand, -20% silt, 5-10% subrounded gravel up to 0.5 cm, -20% clay at 14.0', loose, moist to wet.	9:22 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.5	1.5	1.5	5 5 10					15				
							28.7				TOTAL DEPTH = 16.0 FT.	9:35 - terminated sampling at 16.0'.
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-05

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,515.1 E 1,549,728.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-9-91	11-9-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
12.5/78	0	10	na	44.9	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN. CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.9					
							44.4				**0.0 - 0.5 ft: CONCRETE Slab.**	Concrete slab was diamond core drilled by subcontractor
											0.5 - 1.5 ft: FILL; gravelly with mud and additional cement layers	
							43.4					
SS 2.5	1.5	1.5	11 13 14								**1.5 - 9.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6) to Olive gray (5Y4/1), clay with 20-30% silt, occasional 2 cm pods of green medium sand, trace rounded gravel up to 1 cm, rootlet tubules, blocky struture, low to medium plasticity, moist.	11:30 - began sampling at 1.5'. Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.0	0.8	13 21									
SP	1.5	1.2	6 7 8					5				
SS 2.5	1.5	1.5	6 8 10									
SP	1.0	0.5	5 6									
SS 2.5	1.5	1.4	6 6 10				35.4					
SP	1.5	1.3	4 5 9					10			**9.5 - 12.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2), mottled with Light brown (5YR5/6) to 11.0', fine sand with 10-20% silt, trace to 30% subrounded gravel up to 3 cm, content decreasing with depth and layer of Gravel between 11.0 - 11.2', loose, slightly moist	
SS 2.5	1.5	1.3	10 13 12				32.9					
											12.0 - 14.0 ft: SAND, (SP), Light olive gray (5Y5/2), fine to medium sand with ~10% subrounded gravel up to 3 cm, loose, wet.	
SP	1.5	1.5	5 5 5				30.9					
SS 2.5	1.5	1.5	7 7 8					15			**14.0 - 15.5 ft: Clayey SAND**, (SC), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with ~5% coarse sand and ~30% clay, low to medium plasticity, soft, loose, moist to wet	13:06 - ceased augering at 14.5' - continued sampling to 16.0'.
							29.4					
							28.9				**15.5 - 16.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand, ~30% silt, low to medium plasticity, soft, loose, wet.	13:20 - terminated sampling at 16.0'. Borehole backfilled with cement grout or cement-bentonite grout.
											TOTAL DEPTH = 16.0 FT.	
												Soil description and classification by visual examination of sample using the Unified Soil Classification System Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-06

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,524.1 E 1,549,730.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-11-91	11-11-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
14.1/88	0	10	na	44.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.8					
							44.3				**0.0 - 0.5 ft: CONCRETE Slab.**	Concrete slab was diamond core drilled by subcontractor.
							43.8				**0.5 - 1.0 ft: FILL**, gravelly with mud.	
SS 2.5	1.5	1.5	11 17 17								**1.0 - 8.0 ft: Silty CLAY**, (CL); Brownish black (5YR2/1) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with 20-30% silt, occasional pods of green medium sand up to 1 cm, subangular to subrounded gravel up to 1 cm, vertical rootlet tubules, low plasticity, firm, dry to slightly moist.	07 52 - began sampling at 1.0' Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.5	1.0	12 17 19									
SP	1.5	1.3	3 6 7					5				
SS 2.5	1.5	1.5	5 10 11									
SP	1.5	1.4	5 5 10				36.8				**8.0 - 12.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand, ~30% silt, ~10% clay, ~10% subangular to subrounded gravel up to 1 cm, loose, soft.	
SS 2.5	1.5	1.5	8 11 12									
SP	1.5	1.5	4 7 13					10				
SS 2.5	1.5	1.4	12 14 10				32.8				**12.0 - 13.0 ft: Gravelly SAND**, (SP); Medium dark gray (N4), fine to medium sand with ~40% subrounded gravel up to 2 cm, 5-10% silt, loose, moist.	
SP	1.5	1.5	4 4 4				31.8				**13.0 - 14.5 ft: Clayey SAND**, (SC); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with ~20% clay, ~10% silt and ~5% subangular coarse sand, soft, loose, very moist to wet	9:25 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.5	1.5	1.5	6 8 8				30.3 29.8	15			**14.5 - 15.0 ft: Gravelly CLAY**, (CL); Light olive gray (5Y5/2), clay with ~30% subrounded gravel up to 1 cm, low plasticity, soft, loose, moist.	9:40 - terminated sampling at 16.0'.
							28.8				**15.0 - 16.0 ft: Clayey SAND**, (SC); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with ~20% clay, ~10% silt, blocky structure, firm, loose, moist	Borehole backfilled with cement grout or cement-bentonite grout.
											TOTAL DEPTH = 16.0 FT	

Soil description and classification by visual examination of sample using the Unified Soil Classification System.

Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-06

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-07

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,525.6 E 1,549,734.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-11-91	11-11-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
13.3/83	0	10	na	44.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.8					
							44 3				**0.0 - 0.5 ft: CONCRETE Slab.**	Concrete slab was diamond core drilled by subcontractor.
							43 8				**0.5 - 1.0 ft: FILL**, gravelly with mud	
SS 2 5	1.5	1 5	9 14 14								**1.0 - 8.0 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2) changing to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6) at 4 5', clay with 20-30% silt, 0-10% sand between 1 0 - 4.5' with no sand below; -20% subrounded gravel up to 3 cm below 5 5', low plasticity with medium plasticity below 4 5', blocky structure, stiff to firm, dry	11:59 - began sampling at 1 0' Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2 5	1 5	1.0	10 12 13									
SP	1.5	1.4	3 4 5					5				
SS 2.5	1.5	1.3	5 8 9									
SP	1.5	1.4	3 5 6				36 8					
SS 2.5	1.5	1.2	6 9 11								**8.0 - 10.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -40% silt and -5% subrounded coarse sand, loose, firm, slightly moist.	
							34.8	10				
SP	1.5	1.5	3 5 9								**10.0 - 13.5 ft: SAND**, (SP); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine to medium sand with -10% subrounded gravel up to 2 cm, loose, moist; -20% silt, wet, between 11.5 - 12 0', layer of fine sand, Pale red purple (5RP6/2) between 13 4 - 13 5'.	
SS 2 5	1.5	1 3	11 16 15									
SP	1 5	1 2	5 6 8				31.3					
SS 2.5	1 5	1.5	10 13 14					15			**13.5 - 16.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -30% silt, trace subrounded coarse sand; soft to very hard, not calcareous cement, between 14.0 - 14.3'; loose, moist.	13:38 - ceased augering at 14.5' - continued sampling to 16.0'.
							28.8					
											TOTAL DEPTH = 16.0 FT.	13:56 - terminated sampling at 16 0' Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System. Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-07

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-08

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,507.2 E 1,549,734.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-12-91	11-12-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
12.9/81	0	10	na	44.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.7					
							44 3				**0.0 - 0.4 ft: ASPHALT Pavement**	07.42 - began drilling through asphalt
SS 2.5	1.5	1 3	8 10 10								**0.4 - 7.0 ft: FILL.** 0 4 - 5 5 ft. Silty SAND, (SM), Olive gray (5Y3/2) to Light olive gray (5Y5/2), well-graded sand with -20% silt and -10% subangular gravel up to 0 5 cm, dense, moist.	07.52 - began sampling at 1.0'. Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2 5	1 5	1.3	9 12 12									
SP	1.5	1.1	3 2 5					5				
SS 2.5	1.5	1.5	6 9 7								5.5 - 7 0 ft: SAND, (SW), Light olive gray (5Y5/2), well-graded sand with -10% subangular gravel up to 3 cm, loose, moist.	
							37.7					
SP	1 5	1.0	3 4 7								**7.0 - 9.0 ft: Silty CLAY**, (CL); Olive gray (5Y3/2) mottled with Light olive gray (5Y5/2) and Light brown (5YR5/6), clay with -20% silt, blocky structure, low to medium plasticity, soft, moist.	
SS 2.5	1.5	1.5	7 13 23				35.7				**9.0 - 13.5 ft: Gravelly SAND**, (SW); Light olive gray (5Y5/2), well-graded sand with -30% subrounded gravel up to 3 cm, loose, very moist.	
SP	1.5	1.0	13 24 19					10				
SS 2 5	1.5	1.4	63 52 31									
SP	1 5	1 3	10 5 4				31.2				**13.5 - 14.5 ft: Silty CLAY**, (CL), Olive gray (5Y4/1), clay with -20% silt, -5% coarse sand and gravel up to 0 5 cm, blocky structure, medium plasticity, firm, moist.	9:25 - ceased augering at 14 5' - continued sampling to 16.0'
							30 2					
SS 2.5	1 5	1 5	5 6 8					15			**14.5 - 16.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt, loose, soft, wet.	
							28.7					9:36 - terminated sampling at 16.0'
											TOTAL DEPTH = 16.0 FT	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-08

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-09

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,525.3 E 1,549,739.2	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-12-91	11-12-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
12.7/79	0	10	na	44.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.7					
							44.4				**0.0 - 0.3 ft: ASPHALT Pavement.**	10:08 - began drilling through asphalt.
SS 2.5	1.5	1.5	17 13 12								**0.3 - 6.0 ft: FILL.** 0.3 - 5.0 ft: Gravelly SAND, (SW); Light olive gray (5Y5/2), well-graded sand with -20% angular to rounded gravel up to 2 cm, loose, moist.	10:14 - began sampling at 1.0'. Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.5	1.0	7 9 10									
SP	1.5	1.0	3 4 4					5			5.0 - 6.0 ft: Silty SAND, (SM); Olive gray (5Y3/2), fine to medium sand with -20% silt and -20% subangular coarse sand and gravel up to 0.5 cm, soft, loose, moist.	
SS 2.5	1.5	1.5	3 4 6				38.7				**6.0 - 9.0 ft: Silty CLAY, (CL);** Olive gray (5Y3/2) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -20% silt and -10% rounded gravel up to 0.5 cm, vertical tubules, blocky structures, medium plasticity, firm, moist.	
SP	1.5	1.1	3 4 5									
SS 2.5	1.5	1.5	7 11 11				35.7				**9.0 - 12.0 ft: Silty SAND, (SM);** Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with 20-30% silt, 0-20% subangular coarse sand and gravel up to 0.5 cm, soft, loose, moist.	
SP	1.5	1.2	3 4 7					10				
SS 2.5	1.1	0.9	21 63 50/1"				32.7				**12.0 - 14.0 ft: Gravelly SAND, (SP);** Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine to medium sand with 20-30% rounded gravel up to 3 cm, loose, moist; layer of fine Sand, Pale red purple (5RP6/2) between 12.3 - 12.5'.	
SP	1.9	1.5	27 43 13 7/5"				30.7					
SS 2.5	1.5	1.5	5 6 8					15			**14.0 - 16.0 ft: Silty SAND, (SM);** Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt, loose, soft, wet.	11.41 - ceased augering at 14.5' - continued sampling to 16.0'.
							28.7				TOTAL DEPTH = 16.0 FT.	11:57 - terminated sampling at 16.0' Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System. Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street

Last Update: 01/27/92

HOLE NO. R-09

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-10

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,531.3 E 1,549,734.9	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-12-91	11-12-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
13.7/86	0	10	na	44.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.8					
							44.3				**0.0 - 0.5 ft: CONCRETE Slab**	Concrete slab was diamond core drilled by subcontractor
SS 2.5	1.5	1.5	9 12 15				43.3				**0.5 - 1.5 ft: FILL**; Silty SAND, (SM), Light brown (5YR5/6), well-graded sand with -20% silt and -20% subangular gravel up to 2 cm, loose, dry	14:38 - began sampling at 1.0'
SS 2.5	1.5	1.0	11 13 16								**1.5 - 5.0 ft: Silty CLAY to Clayey SILT**, (CL-ML), Dusky brown (5YR2/2), clay and silt with trace sand, blocky structure, low to medium plasticity, firm, slightly moist.	Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SP	1.5	1.3	4 4 7				39.8	5				
SS 2.5	1.5	1.5	5 7 10				38.3				**5.0 - 6.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with 20% silt and -5% subrounded gravel up to 0.5 cm, dense to loose, soft, slightly moist.	
SP	1.5	1.3	3 5 6				36.8				**6.5 - 8.0 ft: Clayey SILT**, (ML); Dusky brown (5YR2/2), silt with -20% clay and -10% subangular coarse sand, blocky structure, low plasticity, stiff, moist.	
SS 2.5	1.5	1.2	7 10 11								**8.0 - 16.0 ft: Silty SAND**, (SM); Medium gray (N5) mottled with Light brown (5YR5/6), fine sand, 10-30% silt with no silt between 11.0 - 12.0', 5-10% rounded coarse sand and gravel up to 0.5 cm, dense to loose, soft, moist.	
SP	1.5	1.5	3 5 7					10				
SS 2.5	1.5	1.4	13 13 7									
SP	1.5	1.5	3 4 5									
SS 2.5	1.5	1.5	11 13 13					15				16:09 - ceased augering at 14.5' - continued sampling to 16.0'.
							28.8					
											TOTAL DEPTH = 16.0 FT.	16:19 - terminated sampling at 16.0'
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-10

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-11

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,521.5 E 1,549,722.9	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-13-91	11-13-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
13.0/81	0	10	na	44.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Ron Bisio

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.8				**0.0 - 0.7 ft: CONCRETE Slab**	Concrete slab was diamond core drilled by subcontractor
							44.1				**0.7 - 9.0 ft: Silty CLAY**, (CL); dark gray to gray mottled with red, clay with -30% silt, -5% pea gravel, some calcareous blebs with iron staining, blocky structure, medium plasticity, soft to very stiff, moist.	08:40 - began sampling at 1.0' Borehole advanced using truck-powered portable drill rig with hollow-stem augers
SP	1.5	1.3	13 19 22									
SS 2.5	1.5	1.3	22 24 23									
SP	1.5	1.1	5 6 9					5				
SS 2.5	1.5	1.5	4 9 14									
SP	1.5	1.1	3 6 9									
SS 2.5	1.5	1.5	12 21 26				35.8				**9.0 - 10.0 ft: Gravelly, Silty SAND**, (SM), light gray-brown, fine to medium sand with -25% silt, -10% gravel up to 4 cm, medium dense, moist	
SP	1.5	1.0	18 19 19				34.8	10			**10.0 - 13.0 ft: Gravelly SAND**, (SP), red-brown to gray, fine to medium sand with -30% subrounded gravel up to 5 cm, -10% silt, medium dense, moist.	
SS 2.5	1.5	1.4	21 22 23									
SP	1.5	1.3	7 3 3				31.8				**13.0 - 15.0 ft: Silty CLAY**, (CL), red mottled with gray, clay with -25% silt, medium plasticity, very soft to medium stiff, moist.	10:20 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.5	1.5	1.5	5 8 8				29.8	15			**15.0 - 16.0 ft: Sandy SILT**, (ML); gray (N5) mottled with red; silt with -30% very fine sand, medium stiff, moist.	
							28.8				TOTAL DEPTH = 16.0 FT.	10:40 - terminated sampling at 16.0'. Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-11

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-12

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,527.4 E 1,549,728.5	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-13-91	11-13-91	Clear Heart	Giddings Portable	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
11.5/72	0	10	na	44.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Ron Bisio

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.8					
							44.1				**0.0 - 0.7 ft: CONCRETE Slab**	Concrete slab was diamond core drilled by subcontractor
SP	1.5	1.2	11 14 15								**0.7 - 10.0 ft: Silty CLAY**, (CL); dark gray to gray mottled with red, clay with -35% silt, -10% subrounded gravel upto 5 cm, some calcareous blebs starting at 3.0', blocky structure, low to medium plasticity, very soft to very stiff, moist.	13 05 - began sampling at 1 0' Borehole advanced using truck-powered portable drill rig with hollow-stem augers.
SS 2.5	1.5	1 1	17 19 19									
SP	1 5	1 2	8 10 11					5				
SS 2.5	1.5	1.0	5 7 10									
SP	1.5	1.3	3 5 6									
SS 2.5	1.5	0.8	5 7 11									
							34.8	10				
SP	1.5	1.2	6 7 11								**10.0 - 11.5 ft: Sandy SILT**, (ML), gray-brown, silt with -30% sand, -10% gravel, low plasticity, medium stiff, moist.	
							33.3					
SS 2.5	1 5	0.9	13 21 22								**11.5 - 13.0 ft: Gravelly SAND**, (SP); gray, medium sand with -40% rounded gravel up to 5 cm, -10% silt, medium dense, moist.	
							31.8					
SP	1.5	1.3	3 3 4				31.3				**13.0 - 13.5 ft: SAND**, (SP); gray mottled with red, fine sand with -15% gravel, very loose, moist.	
SS 2 5	1 5	1.5	4 5 7					15			**13.5 - 16.0 ft: Silty CLAY**, (CL); red mottled with gray, clay with -15% silt, some sand pods, medium to high plasticity, medium stiff, moist.	14:45 - ceased augering at 14 5' - continued sampling to 16.0'.
							28.8					
											TOTAL DEPTH = 16.0 FT.	14:55 - terminated sampling at 16 0' Borehole backfilled with cement grout or cement-bentonite grout
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street | Last Update: 01/27/92 | HOLE NO. R-12

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-13

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,463.4 E 1,549,877.5	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-13-91	11-13-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.1/63	0	10	na	45.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.8					
							45.6				**0.0 - 0.2 ft: ASPHALT Pavement.**	9:00 - began drilling through asphalt.
SS 2.5	1.5	1.3	18 14 7				43.8				**0.2 - 2.0 ft: FILL**; Silty SAND, (SM); Light brown (5YR5/6), fine to medium sand with ~20% silt and ~20% angular gravel up to 2 cm, loose, dry	9.06 - began sampling at 1 0'.
SS 2.5	1.5	0.7	5 11 12								**2.0 - 5.0 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with ~20% silt, trace white calcareous deposits forming very thin fracture fillings, blocky structure, low plasticity, firm, slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SP	1.5	1.3	2 3 4				40.8	5				
SS 2.5	1.5	0.8	4 9 11								**5.0 - 10.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6) to Olive gray (5Y3/2), fine sand with ~20% silt, trace rounded gravel up to 0.5 cm increasing with depth to ~30% subangular to subrounded gravel up to 3.0 cm, abundant white calcareuos deposits, decreasing with depth, soft, loose, dry.	
SP	1.5	1.0	2 3 6									
SS 2.5	1.5	0.7	7 9 11									
SP	1.5	0.6	1 4 6				35.3	10			**10.5 - 13.5 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with ~40% subrounded gravel up to 3 cm, trace silt, loose, moist.	
SS 2.5	1.5	1.1	16 27 22									
SP	1.5	1.1	4 10 8				32.3					
							31.8				**13.5 - 14.0 ft: SAND**, (SP); Moderate yellowish brown (10YR5/4), fine sand with ~10% silt, loose, very moist.	10:15 - ceased augering at 14.5' - continued sampling to 16.0'
SS 2.5	1.5	1.5	1 2 2					15			**14.0 - 16.0 ft: Sandy SILT to Silty SAND**, (ML-SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt and fine sand; varies from a soft, low-plasticity Sandy Silt to a soft, medium-plasticity Silt to a loose Silty Sand.	10:22 - terminated sampling at 16.0'
							29.8				TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-14

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,458.7 E 1,549,868.5	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-13-91	11-13-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
8.2/51	0	10	na	45.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.8					
							45 6				**0.0 - 0.2 ft: ASPHALT Pavement**	11.10 - began drilling through asphalt
SS 2.5	1.5	0 4	9 14 9				43 8				**0.2 - 2.0 ft: FILL**, Silty SAND, (SM); Moderate brown (5YR4/4), fine to medium sand with -20% silt and -10% angular to subrounded gravel up to 0.5 cm, loose, dry	11:12 - began sampling at 1.0'
SS 2.5	1 5	0.7	6 10 12								**2.0 - 8.5 ft: Silty CLAY**, (CL), Olive black (5Y2/1) changing to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6) at 4.5' and to Olive gray (5Y4/1) at 7.5', clay with -20% silt, calcareous deposits in thin fracture seams and as medium-sand-sized grains, blocky structure, low to medium plasticity, stiff to hard, slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1.0	3 5 7					5				
SS 2.5	1 5	0 7	5 9 10									
SP	1.5	0 8	2 4 6				37 3					
SS 2.5	1 5	1 0	6 12 15								**8.5 - 12.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt, -20% subangular to subrounded gravel and pods of green sand up to 2 cm, soft, loose, slightly moist; very hard, blocky, silt-rich zone at 9.0'.	
SP	1.5	1.0	4 5 10					10				
SS 2 5	1 5	0.8	11 21 19				33.8				**12.0 - 14.0 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2) mottled with Light brown (5RY5/6), fine to medium sand with -40% subangular to subrounded gravel, loose, slightly moist.	
SP	1.5	0 3	3 9 6				31.8				**14.0 - 16.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt, blocky structure, soft, moist.	12:13 - ceased augering at 14 5' - continued sampling to 16.0'.
SS 2 5	1.5	1.5	2 2 6					15				
							29.8				TOTAL DEPTH = 16.0 FT.	12:25 - terminated sampling at 16 0'. Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System.

Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-14

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-15

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,462.5 E 1,549,870.3	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-13-91	11-13-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
8.5/53	0	10	na	45.8	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.8					
							45.6				**0.0 - 0.2 ft: ASPHALT Pavement**	13 43 - began drilling through asphalt.
SS 2.5	1.5	0.2	8 15 8								**0.2 - 2.5 ft: FILL**, Silty SAND, (SM); Moderate brown (5YR4/4), fine to medium sand with -20% silt and -10% angular to subrounded gravel up to 0 5 cm, loose, dry	13:47 - began sampling at 1 0'
							43 3					Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SS 2 5	1 5	0 7	5 12 17								**2.5 - 9.0 ft: Silty CLAY**, (CL), Olive black (5Y2/1), clay with -20% silt, white calcareous deposits fill thin fracture seams, blocky structure, low to medium plasticity, hard, slightly moist	
SP	1.5	0.8	3 5 7					5				
SS 2.5	1.5	0.6	7 15 16									
SP	1 5	0.8	4 6 12									
SS 2.5	1.5	0.9	5 9 13				36.8				**9.0 - 14.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand with -20% silt and 0-30% angular to subrounded gravel up to 3 cm, soft, loose, slightly moist.	
SP	1 5	1.5	5 8 17					10				
SS 2.5	1 5	0 6	15 38 19									
SP	1 5	0.9	11 11 4									
							31.3					14:46 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.5	1 5	1.5	2 1 2					15			**14.5 - 16.0 ft: Sandy SILT**, (ML), Olive gray (5Y4/1), silt with -20% fine sand and 0-10% rounded gravel up to 0 5 cm, blocky structure, low plasticity, soft to firm, moist.	
							29 8					
											TOTAL DEPTH = 16 0 FT	14.55 - terminated sampling at 16 0'.
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-15

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-16

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,466.7 E 1,549,873.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-13-91	11-13-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
11.4/71	0	10	na	45.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.7					
							45.5				**0.0 - 0.2 ft: ASPHALT Pavement.**	15.28 - began drilling through asphalt.
SS 2.5	1.5	1.2	9 20 7								**0.2 - 2.0 ft: FILL**; Silty SAND, (SM); Moderate brown (5YR4/4), fine to medium sand with ~20% silt and ~10% angular to subrounded gravel up to 0.5 cm, loose, dry	15.31 - began sampling at 1.0'.
							43.7				**2.0 - 9.0 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with 20-50% silt, calcareous deposits, blocky structure, low plasticity, firm to stiff, dry.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SS 2.5	1.5	1.0	3 8 13									
SP	1.5	1.2	2 3 7					5				
SS 2.5	1.5	1 0	5 9 11									
SP	1.5	1 3	3 4 7									
SS 2.5	1.5	0 8	3 8 11				36.7				**9.0 - 14.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2), fine sand with ~20% silt and 10-20% angular to subrounded coarse sand and gravel up to 3 cm, dense to loose, firm, moist	
SP	1.5	1.2	3 4 11					10				
SS 2.5	1 5	0 9	14 20 22									
SP	1.5	1.3	10 9 4				31.7					
SS 2.5	1.5	1.5	1 2 3				31.2	15			**14.0 - 14.5 ft: SAND**, (SP); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with 0-10% silt, loose, moist	16:22 - ceased augering at 14.5' - continued sampling to 16.0'.
							29.7				**14.5 - 16.0 ft: SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), vertical tubules, medium plasticity, soft, moist.	16:30 - terminated sampling at 16 0'.
											TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-16

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-17

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331.461.2 E 1,549.863.3	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-14-91	11-14-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
11.5/72	0	10	na	45.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.7					
							45.5				**0.0 - 0.2 ft: ASPHALT Pavement**	08.02 - began drilling through asphalt
SS 2.5	1.5	1 3	8 12 7				43.7				**0.2 - 2.0 ft: FILL**; Silty SAND, (SM), Light brown (5YR5/6), fine to medium sand with -20% silt and -20% angular gravel up to 2 cm, loose, dry	08:07 - began sampling at 1 0'
SS 2.5	1.5	0.7	4 11 12								**2.0 - 6.0 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2), clay with -20% silt and -5% subrounded gravel up to 2 cm, abundant calcareous deposits, blocky structure, low plasticity, stiff, slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SP	1 5	1.5	6 6 7					5				
SS 2.5	1 5	1 0	4 9 10				39.7				**6.0 - 8.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6); silt with -20% fine sand, blocky structure, low plasticity, firm, dry.	
SP	1 5	1 2	2 4 7				37 7					
SS 2.5	1 5	1 0	6 9 13				36 7				**8.0 - 9.0 ft: Silty CLAY**, (CL); Olive gray (5Y3/2), clay with -20% silt, blocky structure, low plasticity, soft to firm, slightly moist.	
SP	1.5	1.3	3 2 6					10			**9.0 - 14.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) to Olive gray (5Y4/1), fine to medium sand; -20% silt, content decreases with depth to <10% below 11'; 0-20% angular to rounded coarse sand and gravel up to 1 cm; soft, loose, moist.	
SS 2.5	1.5	0.7	13 18 29									
SP	1.5	1 3	11 16 7				31.7					
SS 2.5	1 5	1 5	2 3 5				31.2	15			**14.0 - 14.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand with -20% silt, loose, soft, very moist.	08:57 - ceased augering at 14 5' - continued sampling to 16.0'.
							29.7				**14.5 - 16.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) and Light brown (5YR5/6), silt with -20% fine sand, blocky structure, low plasticity, soft, very moist	09:18 - terminated sampling at 16 0'.
											TOTAL DEPTH = 16.0 FT	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-17

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-18

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,466.5 E 1,549,865.8	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-14-91	11-14-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
11.9/74	0	10	na	45.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.6					
							45.4				**0.0 - 0.2 ft: ASPHALT Pavement.**	09:55 - began drilling through asphalt
SS 2.5	1.5	1.3	17 17 14				43.6				**0.2 - 2.0 ft: FILL**; Silty SAND, (SM), Light brown (5YR5/6), fine to medium sand with -20% silt and -20% angular gravel up to 2 cm, loose, dry	09:58 - began sampling at 1.0'
SS 2.5	1.5	0.7	5 9 15								**2.0 - 5.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2), clay with -20% silt and -5% subrounded gravel up to 2 cm, trace calcareous deposits, blocky structure, low plasticity, stiff, slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1.5	4 6 9					5				
SS 2.5	1.5	1.3	5 10 12				40.1				**5.5 - 8.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with -20% fine sand, blocky structure, low plasticity, firm, moist.	
SP	1.5	1.2	3 4 7				37.6					
SS 2.5	1.5	0.9	6 12 14				36.6				**8.0 - 9.0 ft: Silty CLAY**, (CL), Olive gray (5Y3/2), clay with -20% silt and -10% rounded gravel up to 0.5 cm, abundant calcareous deposits, blocky structure, low plasticity, firm, moist.	
SP	1.5	1.4	6 8 18					10			**9.0 - 11.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2), fine sand with -20% silt and 0-20% subrounded gravel up to 2 cm, soft, loose, moist.	
SS 2.5	1.5	0.9	16 26 30				34.6				**11.0 - 14.0 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with 20-30% subrounded to rounded coarse sand and gravel up to 4 cm, trace silt, loose, moist.	
SP	1.5	1.2	16 20 6				31.6					
SS 2.5	1.5	1.5	2 2 3				31.1	15			**14.0 - 14.5 ft: SAND**, (SP); Moderate yellowish brown (10YR5/4), fine sand with -10% silt, loose, moist.	10:53 - ceased augering at 14.5' - continued sampling to 16.0'.
							29.6				**14.5 - 16.0 ft: Silty CLAY**, (CL), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -30% silt, blocky structure, medium plasticity, soft, moist.	11:05 - terminated sampling at 16.0'.
											TOTAL DEPTH = 16.0 FT	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-19

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,471.0 E 1,549,868.5	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-14-91	11-14-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.4/65	0	10	na	45.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.6					
							45.4				**0.0 - 0.2 ft: ASPHALT Pavement**	11:33 - began drilling through asphalt.
							44.6				**0.2 - 1.0 ft: FILL**, Silty SAND, (SM), Light brown (5YR5/6), fine to medium sand with -20% silt and -20% angular gravel up to 2 cm, loose, dry.	11.36 - began sampling at 1.0'
SS 2.5	1.5	1 0	16 14 11								**1.0 - 5.5 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with -20% silt and -5% subrounded gravel up to 2 cm, trace calcareous deposits, blocky structure, low plasticity, stiff, slightly moist	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SS 2.5	1.5	0 6	4 7 10									
SP	1.5	1.3	4 4 12					5				
							40.1				**5.5 - 8.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with -20% fine sand, blocky structure, low plasticity, firm, moist.	
SS 2.5	1.5	1 0	5 11 12									
SP	1.5	1 1	4 6 8				37 6					
							36 6				**8.0 - 9.0 ft: Gravelly CLAY**, (CL), Olive gray (5Y3/2) to Light olive gray (5Y5/2), clay with -30% subrounded gravel up to 2 cm, abundant white calcareous deposits, blocky structure, medium plasticity, firm, moist.	
SS 2.5	1.5	1.1	5 11 14									
SP	1 5	1.1	6 5 13					10			**9.0 - 12.5 ft: Silty SAND**, (SM), Light olive gray (5Y5/2), fine to medium sand with -20% silt, trace angular to subrounded gravel up to 4 cm increasing with depth to -20%, dense to loose, moist.	
SS 2 5	1 5	0 8	16 22 34				33.1					
											12.5 - 14.0 ft: Gravelly SAND, (SP), Light olive gray (5Y5/2), fine to medium sand with -30% subangular to rounded gravel up to 2 cm, loose, slightly moist	
SP	1.5	1 1	17 10 6				31.6					
							31.1				**14.0 - 14.5 ft: SAND**, (SP); Moderate yellowish brown (10YR5/4), fine sand with -10% silt, loose, moist.	12:26 - ceased augering at 14.5' - continued sampling to 16.0'
SS 2.5	1 5	1 3	1 2 4					15			**14.5 - 16.0 ft: Silty CLAY**, (CL), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -30% silt, blocky structure, medium plasticity, soft, moist	
							29 6					12 35 - terminated sampling at 16.0'
											TOTAL DEPTH = 16 0 FT	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-19

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-20

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,475.7 E 1,549,871.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-14-91	11-14-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.3/64	0	10	na	45.5	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.5					
							45.3				**0.0 - 0.2 ft: ASPHALT Pavement**	14 11 - began drilling through asphalt.
SS 2 0	1.5	0 8	10 6 7				44 0				**0.2 - 1.5 ft: FILL**; Silty SAND, (SM), Light brown (5YR5/6), fine to medium sand with -20% silt and -20% angular gravel up to 2 cm, loose, dry	14:14 - began sampling at 1.0'
SS 2.0	1.5	1 4	3 8 17								**1.5 - 5.5 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with -20% silt and -5% subrounded gravel up to 2 cm, trace calcareous deposits, blocky structure, low plasticity, stiff, slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SP	1.5	1 0	5 7 13					5				
							40.0					
SS 2 0	1 5	0 8	4 6 7								**5.5 - 7.5 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with -20% fine sand, blocky structure, low plasticity, firm, moist.	
SP	1.5	1.0	3 6 15				38 0					
							37.0				**7.5 - 8.5 ft: Silty CLAY**, (CL); Olive gray (5Y3/2), clay with -20% silt, -10% subrounded coarse sand and gravel up to 0.5 cm, blocky structure, low plasticity, stiff, dry.	
SS 2.0	1.5	0 8	5 9 12									
SP	1 5	1.0	4 4 11					10			**8.5 - 11.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2), fine to medium sand with -20% silt and 0-20% subrounded gravel up to 0.5 cm, soft, loose, moist; layer of fine Sand, Light olive (10Y5/4), between 11.0 - 11 5'.	
							34.0					
SS 2 0	1.5	1.3	13 14 24								**11.5 - 13.5 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to rounded gravel up to 4 cm, loose, slightly moist	
SP	1.5	1 0	12 5 8				32.0					
											13.5 - 14.5 ft: Silty SAND, (SM), Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand with -20% silt, soft, loose, moist to wet.	
							31.0					15:07 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1 2	3 3 5					15			**14.5 - 16.0 ft: SILT**, (ML); Light olive gray (5Y5/2), blocky structure, medium plasticity, soft to firm, moist to wet.	
							29.5					
											TOTAL DEPTH = 16.0 FT.	15:16 - terminated sampling at 16 0'
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-21

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,460.3 E 1,549,857.0	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-14-91	11-14-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.7/61	0	10	na	45.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS 6" / % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.7					
							45.5				**0.0 - 0.2 ft: ASPHALT Pavement**	15:50 - began drilling through asphalt
SS 2.0	1.5	0.4	10 6 8				43.7				**0.2 - 2.0 ft: FILL**, Silty SAND, (SM), Light brown (5YR5/6), fine to medium sand with ~20% silt and ~20% angular gravel up to 2 cm, loose, dry.	15.53 - began sampling at 1.0'
SS 2.0	1.5	0.4	2 5 18								**2.0 - 7.0 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2), clay with ~20% silt and ~5% subrounded gravel up to 2 cm, trace calcareous deposits, blocky structure, low plasticity, stiff, slightly moist	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1.5	4 7 12					5				
SS 2.0	1.5	0.7	3 6 8				38.7					
SP	1.5	1.2	3 6 12				37.7				**7.0 - 8.0 ft: Sandy SILT**, (ML), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with ~20% fine sand, green fine sand at 8.0', white calcareous deposits, blocky structure, firm, slightly moist.	
SS 2.0	1.5	0.7	3 7 13				36.2				**8.0 - 9.5 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with ~20% silt and ~10% subangular to subrounded gravel up to 1 cm, abundant calcareous deposits, blocky structure, low plasticity, stiff, slightly moist.	
SP	1.5	1.0	6 8 14					10				
SS 2.0	1.5	1.0	13 21 27				34.2				**9.5 - 11.5 ft: Silty SAND**, (SM), Light olive gray (5Y5/2), fine sand with ~20% silt and 10-20% subrounded gravel up to 2 cm, dense to loose, moist.	
SP	1.5	1.3	20 7 15				31.7				**11.5 - 14.0 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with 20-30% subangular to subrounded gravel up to 4 cm, loose, moist.	
							31.2				**14.0 - 14.5 ft: SAND**, (SP); Moderate yellowish brown (10YR5/4), fine sand, loose, wet	16:41 - ceased augering at 14.5' - continued sampling to 16.0'
SS 2.0	1.5	1.5	2 3 5					15			**14.5 - 16.0 ft: Silty CLAY**, (CL), Olive gray (5Y4/1), clay with ~20% silt, blocky structure, medium plasticity, soft, very moist.	
							29.7					16.52 - terminated sampling at 16.0'
											TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-21

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-22

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,465.2 E 1,549,859.7	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-15-91	11-15-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.9/62	0	10	na	45.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS 6" / % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.6					
							45.4				**0.0 - 0.2 ft: ASPHALT Pavement**	07:37 - began drilling through asphalt.
SS 2.0	1.5	1.0	15 6 6				44.1				**0.2 - 1.5 ft: FILL**, Silty SAND, (SM); Light brown (5YR5/6), fine to medium sand with ~20% silt and ~20% angular gravel up to 2 cm, loose, dry.	07:41 - began sampling at 1.0'.
SS 2.0	1.5	0.5	4 6 9								**1.5 - 5.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with ~20% silt, trace calcareous deposits, blocky structure, low plasticity, hard, dry to slightly moist	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1.3	2 5 9					5				
SS 2.0	1.5	1.0	3 4 7				40.1				**5.5 - 7.5 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with ~20% fine sand, abundant white calcareous deposits, blocky structure, low plasticity, firm, slightly moist.	
SP	1.5	1.2	3 5 11				38.1				**7.5 - 9.0 ft: Silty CLAY**, (CL); Olive gray (5Y4/1), clay with ~20% silt and ~10% subrounded gravel up to 0.5 cm, abundant calcareous deposits, blocky structure, low plasticity, firm to stiff, slightly moist	
SS 2.0	1.5	0.8	2 6 8				36.6				**9.0 - 11.5 ft: Silty SAND**, (SM), Light olive gray (5Y5/2), fine to medium sand with ~20% silt and ~5% subrounded gravel up to 0.5 cm, dense to loose, moist, trace light-olive fine sand at 11.0'	
SP	1.5	1.0	4 5 10					10				
SS 2.0	1.5	0.9	9 14 26				34.1				**11.5 - 13.5 ft: Gravelly SAND**, (SP), Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to subrounded gravel up to 4 cm, loose, dry	
SP	1.5	0.7	8 5 8				32.1				**13.5 - 14.5 ft: SAND**, (SP), Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand, loose, very moist to wet	
SS 2.0	1.5	1.5	2 2 3				31.1	15			**14.5 - 16.0 ft: Silty CLAY**, (CL), Light olive gray (5Y5/2), clay with ~20% silt, vertical tubules, blocky structure, medium plasticity, soft, very moist; trace silty fine-sand. Moderate yellowish brown (10YR5/4) at 16.0'	08:27 - ceased augering at 14.5' - continued sampling to 16.0'.
							29.6					08:39 - terminated sampling at 16.0'.
											TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-23

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,471.7 E 1,459,876.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-15-91	11-15-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.2/58	0	10	na	45.3	/ na / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.3					
							45.1				**0.0 - 0.2 ft: ASPHALT Pavement**	09:23 - began drilling through asphalt.
SS 2.0	1.5	0.3	15 6 9								**0.2 - 2.5 ft: FILL**; Silty SAND, (SM); Light brown (5YR5/6), fine to medium sand with -20% silt and -20% angular gravel up to 2 cm, loose, dry.	09:27 - began sampling at 1.0'
							42.8					
SS 2.0	1.5	0.5	5 7 9								**2.5 - 6.0 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with -20% silt, trace calcareous deposits, blocky structure, low plasticity, hard, dry to slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1.0	2 5 10					5				
SS 2.0	1.5	1.1	3 6 9				39.3				**6.0 - 7.5 ft: Sandy SILT**, (ML), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with -20% fine sand, abundant white calcareous deposits, blocky structure, low plasticity, firm, slightly moist	
SP	1.5	1.2	2 3 7				37.8				**7.5 - 9.0 ft: Silty CLAY**, (CL); Olive gray (5Y4/1), clay with -20% silt and -10% subrounded gravel up to 0.5 cm, abundant calcareous deposits, blocky structure, low plasticity, firm to stiff, slightly moist.	
SS 2.0	1.5	1.0	2 7 11				36.3				**9.0 - 11.0 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine to medium sand with -20% silt and -10% subrounded gravel up to 2 cm, dense to loose, moist, trace light-olive fine sand at 11.0'.	
SP	1.5	1.0	4 6 12					10				
SS 2.0	1.5	1.0	6 18 24				34.3				**11.0 - 13.5 ft: Gravelly SAND**, (SP), Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to subrounded gravel up to 4 cm, loose, dry.	
SP	1.5	0.6	6 4 7				31.8				**13.5 - 14.5 ft: SAND**, (SP); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand, loose, very moist	
							30.8					10.15 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1.5	1 2 4					15			**14.5 - 16.0 ft: Sandy SILT**, (ML), Light olive gray (5Y5/2), silt with -20% fine sand and -5% subangular coarse sand, blocky structure; low plasticity, soft, moist.	
							29.3					
											TOTAL DEPTH = 16.0 FT.	10:23 - terminated sampling at 16.0'
												Borehole backfilled with cement grout or cement-bentonite grout
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-24

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,469.8 E 1,549,862.4	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-15-91	11-15-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.5/66	0	10	na	45.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.6					
							45.4				**0.0 - 0.2 ft: ASPHALT Pavement**	11:01 - began drilling through asphalt.
SS 2.0	1.5	1.0	7 5 10				43.6				**0.2 - 2.0 ft: FILL**, Silty SAND, (SM); Light brown (5YR5/6) to Light olive gray (5Y5/2) to Moderate yellowish brown (10YR5/4), fine to medium sand with -20% silt and -20% angular gravel up to 2 cm, loose, dry	11:05 - began sampling at 1.0'
SS 2.0	1.5	0.3	4 8 10								**2.0 - 6.0 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with -20% silt, trace calcareous deposits, blocky structure, low plasticity, hard, dry to slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SP	1.5	1.5	3 5 9					5				
SS 2.0	1.5	1.1	4 4 8				39.6				**6.0 - 7.5 ft: Silty CLAY**, (CL); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -20% silt, trace white calcareous deposits, low plasticity, firm, dry to slightly moist.	
SP	1.5	1.0	4 5 7				38.1				**7.5 - 10.0 ft: Silty CLAY**, (CL), Olive gray (5Y4/1), clay with -20% silt and -10% subrounded gravel up to 0.5 cm, abundant calcareous deposits, blocky structure, low plasticity, firm to stiff, slightly moist.	
SS 2.0	1.5	0.9	2 4 7				35.6	10			**10.0 - 11.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2), fine to medium sand with -20% silt and -5% subrounded gravel up to 2 cm, dense to loose.	
SP	1.5	1.4	4 3 15				34.1				**11.5 - 13.5 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to subrounded gravel up to 2 cm, loose, dry.	
SS 2.0	1.5	0.9	16 21 26				32.1				**13.5 - 14.5 ft: SAND**, (SP); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand, loose, very moist.	11.48 - ceased augering at 14.5' - continued sampling to 16.0'.
SP	1.5	0.9	8 5 10				31.1				**14.5 - 16.0 ft: Silty SAND to SILT to Silty CLAY**, (SM-CL), Light olive gray (5Y5/2) to Light brown (5YR5/6), blocky structure, low to medium plasticity, soft, moist	11.58 - terminated sampling at 16.0'
SS 2.0	1.5	1.5	2 1 4				29.6	15			TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System.

Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-24

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-25

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,474.9 E 1,549,864.8	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-15-91	11-15-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.2/58	0	10	na	45.5	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN. CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.5					
							45.3				**0.0 - 0.2 ft: ASPHALT Pavement**	13:00 - began drilling through asphalt
SS 2.0	1.5	0.8	20 6 8				44.0				**0.2 - 1.5 ft: FILL**; Silty SAND, (SM); Light brown (5YR5/6), fine to medium sand with ~20% silt and ~20% angular gravel up to 2 cm, loose, dry	13:03 - began sampling at 1.0'.
SS 2.0	1.5	0.8	5 6 11								**1.5 - 5.0 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with ~20% silt, trace calcareous deposits, blocky structure, medium plasticity, hard, dry to slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1.0	4 6 11				40.5	5				
SS 2.0	1.5	0.7	4 5 9								**5.0 - 7.0 ft: Sandy SILT**, (ML), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with ~20% fine sand, abundant white calcareous deposits, blocky structure, low plasticity, firm, slightly moist.	
SP	1.5	1.3	3 4 9				38.5				**7.0 - 9.0 ft: Silty CLAY**, (CL); Olive gray (5Y4/1), clay with ~20% silt and ~10% subrounded gravel up to 0.5 cm, abundant calcareous deposits, blocky structure, low plasticity, firm to stiff, slightly moist	
SS 2.0	1.5	0.8	2 7 11				36.5				**9.0 - 11.5 ft: Silty SAND**, (SM), Light olive gray (5Y5/2), fine to medium sand with ~20% silt, ~5% subrounded gravel up to 2 cm increasing to 40% with depth, dense to loose, moist; trace light-olive fine sand at 11.0'.	
SP	1.5	1.0	3 6 15					10				
SS 2.0	1.5	1.0	14 19 28				34.0				**11.5 - 14.5 ft: Gravelly SAND**, (SP), Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to subrounded gravel up to 4 cm, loose, dry.	
SP	1.5	0.3	11 5 12				31.0					13.46 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1.5	1 2 3				30.5	15			**14.5 - 15.0 ft: SAND**, (SP); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand, loose, very moist to wet.	
							29.5				**15.0 - 16.0 ft: Silty CLAY**, (CL), Light olive gray (5Y5/2) to Light brown (5YR5/6), clay with ~20% silt, vertical tubules, blocky structure, medium plasticity, soft, very moist.	13:56 - terminated sampling at 16.0'
											TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System

Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street — Last Update: 01/27/92 — HOLE NO. R-25

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-26

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,479.5 E 1,549,867.0	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-15-91	11-15-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.2/58	0	10	na	45.5	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.5					
							45.3				**0.0 - 0.2 ft: ASPHALT Pavement.**	14:30 - began drilling through asphalt
SS 2.0	1.5	0.4	15 8 9				43.5				**0.2 - 2.0 ft: FILL**, Silty SAND, (SM); Light brown (5YR5/6), fine to medium sand with ~20% silt and ~20% angular gravel up to 2 cm, loose, dry.	14:34 - began sampling at 1.0'.
SS 2.0	1.5	0.8	5 10 12								**2.0 - 5.5 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with ~20% silt, trace calcareous deposits, blocky structure, low plasticity, hard, dry to slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SP	1.5	1.5	5 9 13					5				
							40.0					
SS 2.0	1.5	0.7	4 4 8								**5.5 - 7.5 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with ~20% fine sand, abundant white calcareous deposits, blocky structure, low plasticity, firm, slightly moist.	
SP	1.5	1.4	4 6 13				38.0					
							37.0				**7.5 - 8.5 ft: Silty CLAY**, (CL), Olive gray (5Y4/1), clay with ~20% silt and ~10% subrounded gravel up to 0.5 cm, abundant calcareous deposits, blocky structure, low plasticity, firm to stiff, slightly moist.	
SS 2.0	1.5	0.7	3 9 10								**8.5 - 11.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2), fine to medium sand with ~20% silt and 10-20% subrounded gravel up to 4 cm, dense to loose, moist; trace light-olive fine sand at 11.0'.	
SP	1.5	1.0	5 6 14					10				
							34.0					
SS 2.0	1.5	0.9	16 13 35								**11.5 - 14.0 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to subrounded gravel up to 4 cm, loose, dry.	
SP	1.5	1.0	10 7 13				31.5					
							31.0				**14.0 - 14.5 ft: SAND**, (SP); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand, loose, wet	15:22 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1.2	2 2 3					15			**14.5 - 16.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2), silt with ~20% fine sand and ~5% subangular coarse sand, blocky structure, low plasticity, soft, moist	
							29.5					15:32 - terminated sampling at 16.0'
											TOTAL DEPTH = 16.0 FT	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-27

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,491.8 E 1,549,748.9	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-18-91	11-18-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
11.4/71	0	10	na	44.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS 6" % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.6					
							44.4				**0.0 - 0.2 ft: ASPHALT Pavement**	08:10 - began drilling through asphalt.
							43.6				**0.2 - 1.0 ft: FILL**; Silty SAND, (SM), Olive gray (5Y4/1), fine to medium sand with -20% silt, 0-20% subrounded gravel up to 0 5 cm, loose, dry	08:13 - began sampling at 1.0'
SS 2.0	1 5	1 0	5 10 13								**1.0 - 8.0 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with -20% silt, trace to abundant calcareous deposits, blocky structure, low to medium plasticity, firm to stiff, dry to moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SS 2 0	1 5	0.7	4 9 14									
SP	1 5	1.1	8 13 16					5				
SS 2 0	1 5	1.4	2 3 5									
SP	1.5	1.2	3 4 11				36.6					
SS 2.0	1.5	1.0	2 3 5								**8.0 - 10.0 ft: Sandy SILT**, (ML); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), silt with -20% fine sand, blocky structure, low to medium plasticity, soft to firm, moist.	
SP	1.5	1 3	3 5 8				34.6	10			**10.0 - 11.5 ft: Silty SAND**, (SM); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt, soft, loose, moist.	
SS 2.0	1.5	1 0	5 10 10				33.1				**11.5 - 13.5 ft: SAND**, (SP); Light olive gray (5Y5/2) to Moderate olive brown (5Y4/4), fine to medium sand, loose, wet	
SP	1 5	1 2	3 3 9				31 1				**13.5 - 16.0 ft: Silty CLAY**, (CL); Medium dark gray (N4) to Dark gray (N3), clay with -20% silt and 0-5% subrounded coarse sand and gravel up to 0.5 cm, occasional pods of Light brown, (5YR5/6), fine sand; vertical tubules, blocky structure, low to medium plasticity, soft, moist.	09.02 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1.5	2 2 3					15				
							28.6				TOTAL DEPTH = 16.0 FT.	09:13 - terminated sampling at 16.0'
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street

Last Update: 01/27/92

HOLE NO. R-27

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-28

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,497.8 E 1,549,748.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-18-91	11-18-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
12.3/77	0	10	na	44.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.6					
							44.4				**0.0 - 0.2 ft: ASPHALT Pavement**	10:15 - began drilling through asphalt.
							43.6				**0.2 - 1.0 ft: FILL**; Silty SAND, (SM), Olive gray (5Y4/1), fine to medium sand with ~20% silt, 0-20% subrounded gravel up to 0 5 cm, loose, dry	10:19 - began sampling at 1.0'.
SS 2 0	1.5	1.3	6 8 17								**1.0 - 8.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Olive gray (5Y4/1) to Light olive gray (5Y5/2), clay with ~20% silt, trace subangular coarse sand and gravel up to 0 5 cm increasing with depth to ~20%, trace calcareous deposits increasing with depth to abundant, blocky structure, low to medium plasticity, firm to stiff, dry to moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SS 2 0	1 5	1 3	3 6 11									
SP	1.5	0 6	4 6 11					5				
SS 2 0	1.5	1.3	3 3 6									
SP	1.5	1.0	2 4 9									
							36.1					
SS 2.0	1 5	1 3	2 3 5								**8.5 - 11.5 ft: Silty SAND**, (SM), Medium Light gray (N6) mottled with Light brown (5YR5/6) to Medium bluish gray (5B5/1), fine sand with 0-20% silt, ~10% subrounded gravel up to 3 cm decreasing with depth to trace at 9 0', soft, loose, moist, trace light olive fine sand at 10.0'	
SP	1 5	1.5	2 4 8					10				
							33.1					
SS 2 0	1 5	1.3	3 11 9								**11.5 - 14.0 ft: SAND**, (SP); Medium gray (N5) to Medium dark gray (N4), fine sand with trace subrounded gravel up to 0.5 cm, loose, moist to wet.	
SP	1 5	1.2	3 3 10									
							30.6				**14.0 - 16.0 ft: CLAY**, (CL); Dark gray (N3) to Olive gray (5Y3/2), trace tubules and white gastropod shells, blocky structure, medium plasticity, soft to stiff, wet.	11:05 - ceased augering at 14 5' - continued sampling to 16.0'.
SS 2.0	1 5	1.5	2 2 3					15				
							28.6					
											TOTAL DEPTH = 16 0 FT	11.13 - terminated sampling at 16 0'.
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-29

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,503.0 E 1,549,749.4	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-18-91	11-18-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.6/66	0	10	na	44.5	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.5					
							44.3				**0.0 - 0.2 ft: ASPHALT Pavement.**	12:28 - began drilling through asphalt
SS 2 0	1.5	1.5	5 10 12								**0.2 - 4.5 ft: FILL**, Silty SAND, (SM), Olive gray (5Y4/1), fine to medium sand with -20% silt, 5-10% subrounded gravel up to 0 5 cm, asphalt chunks between 2.5 - 3.0', loose, dry to moist.	12:32 - began sampling at 1.0' Borehole advanced using truck-mounted drill rig with hollow-stem augers
SS 2 0	1 5	0.5	4 6 9									
SP	1 5	1.0	2 2 7				40 0	5			**4.5 - 9.5 ft: Silty CLAY**, (CL), Light olive gray (5Y5/2) to Light brown (5YR5/6) to Olive gray (5Y4/1), clay with -20% silt, trace to abundant calcareous deposits, blocky structure, low to medium plasticity, firm to stiff, dry to moist.	
SS 2.0	1.5	1.0	2 3 5									
SP	1 5	1.0	2 3 6									
SS 2.0	1.5	0 7	1 3 5				35.0					
SP	1.5	1 3	2 4 8				34.5	10			**9.5 - 10.0 ft: Silty SAND**, (SM); Medium bluish gray (5B5/1) to Medium gray (N5) mottled with Light brown (5YR5/6), fine sand with -20% silt decreasing with depth to trace at 10 0', -5% subrounded gravel up to 2 cm, loose, moist	
							33.5					
SS 2 0	1.5	1 3	4 7 8				32.5				**10.0 - 11.0 ft: SAND**, (SP), Light brown (5YR5/6), fine sand, loose, moist.	
											11.0 - 12.0 ft: Sandy SILT, (ML); Light olive gray (5Y5/2), silt with -20% fine sand, low plasticity, soft to firm, moist.	
SP	1 5	1.1	2 4 9				30.5				**12.0 - 14.0 ft: SAND**, (SP); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine sand, loose, wet	
SS 2 0	1.5	1 2	1 2 3				30 0	15			**14.0 - 14.5 ft: CLAY**, (CL); Light olive gray (5Y5/2), blocky structure, medium plasticity, stiff, wet.	13.27 - ceased augering at 14.5' - continued sampling to 16 0'.
							28 5				**14.5 - 16.0 ft: SILT**, (ML); Light olive gray (5Y5/2), blocky structure, low plasticity, soft, wet	13:35 - terminated sampling at 16 0'.
											TOTAL DEPTH = 16 0 FT	Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System

Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street

Last Update: 01/27/92

HOLE NO. R-29

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-30

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,499.7 E 1,549,743.3	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-18-91	11-18-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
11.6/73	0	10	na	45.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS 6" / % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							45.6					
							45.4				**0.0 - 0.2 ft: ASPHALT Pavement**	14.04 - began drilling through asphalt
SS 2.0	1.5	1.5	9 4 3				43.6				**0.2 - 2.0 ft: FILL**, Silty SAND, (SM); Olive gray (5Y4/1) to Moderate olive brown (5Y4/4), fine to medium sand with -20% silt, 0-20% subrounded gravel up to 0.5 cm, loose to dense, dry	14:08 - began sampling at 1.0'.
SS 2.0	1.5	1.3	5 5 8								**2.0 - 8.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -20% silt; subrounded gravel up to 1 cm and pods of fine to medium sand, Medium bluish gray (5B5/1), content increasing with depth; blocky structure, low to medium plasticity, firm to stiff, dry to moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	0.5	3 4 6					5				
SS 2.0	1.5	1.3	1 2 5									
SP	1.5	0.6	1 3 6									
							37.1					
SS 2.0	1.5	1.1	2 3 6								**8.5 - 10.5 ft: Silty SAND**, (SM), Medium bluish gray (5B5/1) with trace mottling of Light brown (5YR5/6), fine sand with -20% silt, dense to loose, soft, moist.	
								10				
SP	1.5	1.5	3 3 8				35.1				**10.5 - 12.0 ft: SAND**, (SP); Medium bluish gray (5B5/1), fine sand with 0-5% silt, loose, moist.	
SS 2.0	1.5	1.3	2 10 10				33.6				**12.0 - 13.5 ft: Gravelly SAND**, (SP); Olive gray (5Y3/2), fine to medium sand with -20% subrounded gravel up to 2 cm, loose, wet.	
SP	1.5	1.0	3 3 7				32.1				**13.5 - 16.0 ft: CLAY**, (CL); Medium dark gray (N4) to Light olive gray (5Y5/2), clay, 10-20% fine sand decreasing with depth to trace, trace subangular gravel up to 0.5 cm, firm to soft with increasing depth, wet.	14:50 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1.5	3 3 4					15				
							29.6					
											TOTAL DEPTH = 16.0 FT	14.55 - terminated sampling at 16.0'
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-31

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,500.7 E 1,549,739.0	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-18-91	11-18-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.5/66	0	10	na	44.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP. TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.6					
							44.4				**0.0 - 0.2 ft: ASPHALT Pavement** **0.2 - 4.5 ft: FILL**, Silty SAND, (SM); Olive gray (5Y4/1) to Moderate olive brown (5Y4/4) to Dusky yellowish brown (10YR2/2), fine to medium sand with -20% silt, 0-20% subrounded gravel up to 0.5 cm, loose to dense, dry.	15.25 - began drilling through asphalt. 15:30 - began sampling at 1 0'. Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SS 2 0	1.5	1 2	4 6 8									
SS 2.0	1 5	1.2	5 4 4									
SP	1 5	0 7	1 2 10				40 1	5			**4.5 - 7.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), clay with -20% silt, trace to abundant calcareous deposits, blocky structure, low to medium plasticity, hard to stiff, dry to moist.	
SS 2.0	1.5	0 7	2 3 5									
SP	1 5	1 0	2 2 6				37 1				**7.5 - 8.5 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt, blocky structure, low plasticity, firm, moist.	
SS 2.0	1.5	0 8	2 4 6				36.1				**8.5 - 10.0 ft: Silty SAND**, (SM); Medium bluish gray (5B5/1), fine to medium sand with -20% silt, -10% subangular to subrounded gravel up to 0.5 cm increasing with depth to -20%, loose, moist	
SP	1 5	1.2	3 3 8				34.6	10			**10.0 - 14.5 ft: SAND**, (SP); Light olive gray (5Y5/2) to Light brown (5YR5/6), fine to medium sand, -10% silt between 11.5 - 12.0', -30% rounded gravel up to 3 cm between 12.0 - 12.5', loose, wet	
SS 2.0	1 5	1 3	5 14 19									
SP	1.5	0.9	6 3 7									
SS 2.0	1 5	1.5	3 3 4				30.1	15			**14.5 - 16.0 ft: Silty CLAY**, (CL); Light olive gray (5Y5/2) mottled with Light brown (5YR5/6); clay with -20% silt and trace subrounded to subangular coarse sand and gravel up to 0.5 cm, blocky structure, medium plasticity, soft to firm, very moist.	16.18 - ceased augering at 14 5' - continued sampling to 16.0'. 16:26 - terminated sampling at 16.0' Borehole backfilled with cement grout or cement-bentonite grout.
							28.6				TOTAL DEPTH = 16.0 FT	

Soil description and classification by visual examination of sample using the Unified Soil Classification System

Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-31

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-32

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,502.6 E 1,549,733.4	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-19-91	11-19-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.9/62	0	10	na	44.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.6					
							44.4				**0.0 - 0.2 ft: ASPHALT Pavement**	07 42 - began drilling through asphalt.
SS 2.0	1.5	1.4	4 5 5								**0.2 - 2.5 ft: FILL**, Silty SAND, (SM); Light brown (5YR5/6) to Grayish olive (10Y4/2), fine to medium sand with -20% silt and 10-20% subrounded gravel up to 2 cm, loose to dense, dry to slightly moist.	07:46 - began sampling at 1.0'
							42.1				**2.5 - 8.5 ft: Silty CLAY**, (CL), Dusky yellowish brown (10YR2/2), clay with -20% silt, -10% subrounded gravel up to 0.5 cm between 5.5 - 8.5'; pods of fine sand, Pale olive (10Y6/2), increasing with depth to -50% below 7.5', trace shells, blocky structure, medium plasticity, soft to stiff, sticky, moist (Note: Some or all of this interval may be backfilled native soil and fill.)	Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SS 2.0	1.5	1.1	3 5 6									
SP	1.5	0.4	1 2 6					5				
SS 2.0	1.5	0.7	2 4 6									
SP	1.5	0.8	3 5 8									
							36.1				**8.5 - 13.5 ft: Gravelly SAND**, (SP); Grayish green (10GY5/2), fine to medium sand with 20-40% subrounded coarse sand and gravel up to 5 cm, 10-15% silt in places, loose, moist to wet.	
SS 2.0	1.5	1.3	2 5 8									
SP	1.5	0.8	6 7 14					10				
SS 2.0	1.5	1.2	15 23 31									
SP	1.5	0.9	18 15 21				31.1					
							30.6				**13.5 - 14.0 ft: SAND**, (SP); Moderate olive brown (5Y4/4), fine to medium sand, loose, wet	08 37 - ceased augering at 14.5' - continued sampling to 16.0'
SS 2.0	1.5	1.3	4 4 2					15			**14.0 - 16.0 ft: Silty CLAY**, (CL); Greenish gray (5GY6/1), clay with -10% rounded coarse sand and gravel up to 0.5 cm, blocky structure, medium plasticity, soft, wet	
							28.6					
											TOTAL DEPTH = 16.0 FT	08:47 - terminated sampling at 16.0'.
												Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street

Last Update: 01/27/92

HOLE NO. R-32

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-33

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,504.9 E 1,549,744.3	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-19-91	11-19-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
9.2/58	0	10	na	44.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.6					
							44.4				**0.0 - 0.2 ft: ASPHALT Pavement.**	09:15 - began drilling through asphalt.
SS 2 0	1.5	1.5	12 7 14								**0.2 - 8.5 ft: FILL**, Silty SAND, (SM); Light brown (5YR5/6) to Moderate olive brown (5Y4/4) to Dusky yellowish brown (10YR2/2), fine to medium sand with ~20% silt; ~20% subangular to subrounded coarse sand and gravel up to 0 5 cm, very gravelly between 7.0 - 8 5'; piece of red brick at 6 5', blocky structure, medium plasticity, soft to firm, dry to moist.	09:20 - began sampling at 1.0' Borehole advanced using truck-mounted drill rig with hollow-stem augers
SS 2.0	1.5	1.3	4 5 7									
SP	1.5	1.0	2 3 11					5				
SS 2.0	1.5	1.0	2 2 8									
SP	1.5	0.4	3 4 8									
							36 1					
SS 2 0	1.5	0 4	2 4 5								**8.5 - 10.0 ft: SILT**, (ML); Olive black (5Y2/1), dry, soft.	
							34.6	10				
SP	1.5	0.1	5 6 6								**10.0 - 14.5 ft: SAND**, (SP); Medium dark gray (N4) mottled with Moderate olive brown (5Y4/4) to Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine to medium sand, trace subangular to subrounded gravel up to 3 cm increasing to 40% below 13.5', loose, moist to wet	
SS 2.0	1 5	1.3	3 6 7									
SP	1.5	0.7	2 6 7									
							30.1					10.08 - ceased augering at 14 5' - continued sampling to 16.0'.
SS 2 0	1.5	1.5	2 2 3					15			**14.5 - 16.0 ft: CLAY**, (CL); Greenish gray (5GY6/1), trace subrounded coarse sand and gravel up to 0.5 cm, trace white gastropod shells up to 0 5 cm, blocky structure, medium plasticity, soft, moist.	
							28.6					
											TOTAL DEPTH = 16 0 FT.	10:15 - terminated sampling at 16.0' Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System

Colors from "Rock-Color Chart" (GSA, 1948)

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-34

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,506.7 E 1,549,739.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-19-91	11-19-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
12.1/76	0	10	na	44.6	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS: LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.6					
							44.4				**0.0 - 0.2 ft: ASPHALT Pavement**	10 48 - began drilling through asphalt.
SS 2 0	1.5	1 4	10 7 8								**0.2 - 9.0 ft: FILL**, Silty SAND, (SM), Light brown (5YR5/6) to Grayish olive (10Y4/2), fine to medium sand with -20% silt and 10-20% subangular to subrounded gravel up to 2 cm, loose to dense, dry to moist	10:52 - began sampling at 1.0'
SS 2 0	1 5	1.4	7 8 9									Borehole advanced using truck-mounted drill rig with hollow-stem augers
SP	1 5	1 0	2 3 8					5				
SS 2.0	1 5	1 4	2 9 7									
SP	1 5	1 0	3 6 6									
SS 2.0	1.5	0.9	2 3 5				35.6				**9.0 - 10.5 ft: SAND**, (SP), Yellowish gray (5Y7/2), fine to medium sand with -5% coarse sand, loose, slightly moist	
SP	1.5	1.2	2 2 10				34.1	10				
							33 6				**10.5 - 11.0 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with -20% silt, blocky structure, medium plasticity, soft, moist.	
SS 2.0	1.5	1 0	8 16 31									
							32.1				**11.0 - 12.5 ft: Gravelly SAND**, (SP); Light olive gray (5Y5/2), fine to medium sand with 20-40% subangular to rounded gravel up to 3 cm, loose, moist.	
SP	1 5	1 3	6 20 24								**12.5 - 14.5 ft: SAND**, (SP); Light olive brown (5Y5/6), fine to medium sand with 0-20% angular to rounded gravel up to 3 cm, loose, wet.	
							30.1					11:38 - ceased augering at 14.5' - continued sampling to 16.0'
SS 2 0	1 5	1 5	2 2 2					15			**14.5 - 16.0 ft: CLAY**, (CL), Medium light gray (N6) mottled with Light brown (5YR5/6), 5-10% subrounded gravel up to 0.5 cm, trace calcareous deposits and shells, blocky structure, low to medium plasticity, soft to firm, wet.	
							28.6					11:48 - terminated sampling at 16 0'.
											TOTAL DEPTH = 16 0 FT	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE: 501 Ellis Street

Last Update: 01/27/92

HOLE NO. R-34

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-35

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,519.5 E 1,549,738.1	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-22-91	11-22-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
8.6/54	0	8	na	44.7	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.7					
							44.5				**0.0 - 0.2 ft: ASPHALT Pavement** **0.2 - 9.0 ft: FILL** 0.2 - 4.0 ft: Silty SAND to GRAVEL, (SM-GM); Olive gray (5Y4/1) to Light gray (N7), fine to medium sand with -20% silt and -30% subangular gravel up to 3 cm, grading to 60-80% gravel with 20-40% fine sand and silt at 4 0', loose, dry to moist	08:16 - began drilling through asphalt. 08:39 - began sampling at 4.0' Borehole advanced using truck-mounted drill rig with hollow-stem augers.
SP	1.5	1 2	2 3 6					5			4.0 - 4 5 ft: Silty SAND, (SM); Moderate olive brown (5Y4/4), fine sand with -20% silt and -10% subangular gravel up to 1 cm, loose, dry. 4.5 - 9.0 ft: Sandy CLAY, (CL); Dusky yellowish brown (10YR2/2), clay with -30% well-graded sand, redbrick debris at 6.5', low plasticity, soft, slightly moist.	
SS 2 0	1.5	1.0	2 5 7									
SP	1.5	1 0	2 4 8									
SS 2.0	1.5	0.8	3 4 6				35 7				**9.0 - 14.5 ft: SAND**, (SP), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with 5-30% subangular to subrounded gravel, trace silt, loose, moist.	
SP	1.5	1.2	5 6 18					10				
SS 2 0	1.5	1 0	11 9 13									
SP	1.5	1.0	13 11 17									
							30.2					09 19 - ceased augering at 14 5' - continued sampling to 16.0'
SS 2 0	1.5	1 4	2 4 5					15			**14.5 - 16.0 ft: Silty SAND**, (SM), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with -20% silt and 0-20% clay, gravelly and loose in places, soft to firm, moist	
							28 7					
											TOTAL DEPTH = 16.0 FT	09.34 - terminated sampling at 16.0'. Borehole backfilled with cement grout or cement-bentonite grout.

Soil description and classification by visual examination of sample using the Unified Soil Classification System.

Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NEC MOUNTAIN VIEW	17660	1 OF 1	R-36

SITE	COORDINATES and/or STATIONINGS	ANGLE FROM HORIZ	BEARING
501 Ellis Street	N 331,515.1 E 1,549,736.7	Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
11-22-91	11-22-91	Clear Heart	Failing FA-100	6 in	16.0	0.0	16.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
10.1/63	0	9	na	44.5	▽ / na ▼ / na	na/na

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 lbs/30 in	none	Curtis Obi

(Template: BCHTLLS)

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS "N" % CORE RECOVERY	WATER PRESSURE TESTS LOSS IN G.P.M	PRESS. P.S.I.	TIME IN MIN.	ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
							44.5					
							44.3				**0.0 - 0.2 ft: ASPHALT Pavement.**	10:05 - began drilling through asphalt.
											0.2 - 2.0 ft: FILL, Silty SAND, (SM); Light brown (5YR5/6), fine to medium sand with ~20% silt and ~30% subangular gravel up to 3 cm, loose, dry to moist.	10:13 - began sampling at 2.5'
							42.5				**2.0 - 7.5 ft: Silty CLAY**, (CL); Dusky yellowish brown (10YR2/2), clay with ~20% silt, blocky structure, low to medium plasticity, firm to stiff, slightly moist.	Borehole advanced using truck-mounted drill rig with hollow-stem augers
SS 2.0	1.5	1.0	2 4 7									
SP	1.5	1.0	3 6 8					5				
SS 2.0	1.5	1.5	3 4 6									
SP	1.5	1.0	2 4 11				37.0				**7.5 - 10.0 ft: Gravelly CLAY**, (CL), Light olive gray (5Y5/2), clay with 10-40% subrounded gravel up to 5 cm and ~20% fine sand, moist.	
SS 2.0	1.5	1.0	2 4 9									
							34.5	10				
SP	1.5	0.8	6 10 21								**10.0 - 14.5 ft: SAND**, (SP), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6), fine sand with 0-40% angular to rounded gravel up to 4 cm in interbedded layers, loose, moist.	
SS 2.0	1.5	1.3	17 29 41									
SP	1.5	1.0	8 11 16									
							30.0					10:58 - ceased augering at 14.5' - continued sampling to 16.0'.
SS 2.0	1.5	1.5	2 3 5					15			**14.5 - 15.5 ft: Silty CLAY**, (CL), Light olive gray (5Y5/2) mottled with Light brown (5YR5/6); clay with ~20% silt, blocky structure, low plasticity, soft, moist.	
							29.0					
							28.5				**15.5 - 16.0 ft: CLAY**, (CL); Light olive gray (5Y5/2), trace shells and coarse sand, blocky structure, medium plasticity, stiff, moist.	11:00 - terminated sampling at 16.0'.
											TOTAL DEPTH = 16.0 FT.	Borehole backfilled with cement grout or cement-bentonite grout.
												Soil description and classification by visual examination of sample using the Unified Soil Classification System.
												Colors from "Rock-Color Chart" (GSA, 1948).

SS = SPLIT SPOON SAMPLER/ID inches
SP = STD PENETRATION TEST SAMPLER

SITE	Last Update:	HOLE NO.
501 Ellis Street	01/27/92	R-36

APPENDIX B

HNU READINGS DURING EXPLORATION AND REMEDIATION

TABLES B-1 - HNU READINGS FOR EXPLORATORY BORINGS

TABLE B-2 - HNU READINGS FOR REMEDIATION

TABLE B-1

HNU READINGS FOR EXPLORATORY BORINGS

			HNU READINGS (ppm)		
Exploratory Boring Number	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Boring	Soil Cutting	Soil Bag
R-1	3.5	0.12	NA	NA	NA
R-1	6.5	0.56	NA	NA	NA
R-1	9.5	1.0	NA	5	NA
R-1	12.5	0.21	NA	15	NA
R-1	15.5	1.1	NA	5	NA
R-2	3.5	0.06	NA	0	NA
R-2	6.5	0.07	NA	0	NA
R-2	9.5	0.06	NA	0	NA
R-2	12.5	0.05	NA	0.5	NA
R-2	15.5	0.09	NA	0	NA
R-3	3.5	0.06	NA	0	NA
R-3	6.5	0.07	NA	0	NA
R-3	9.5	0.06	NA	0	NA
R-3	12.5	0.06	NA	0	NA
R-3	15.5	0.19	NA	0	NA
R-4	3.5	0.05	NA	0	NA
R-4	6.5	0.05	NA	0	NA
R-4	9.5	0.09	2	0.5	NA
R-4	12.5	0.11	7	NA	10
R-4	15.5	0.09	1	NA	0
R-5	3.5	0.11	0	0	0
R-5	6.5	0.23	0	0	0
R-5	9.5	0.23	0	0.5	2
R-5	12.5	0.18	NA	0.5	NA
R-5	15.5	0.17	2	1	NA
R-6	3.5	0.15	0	0	NA
R-6	6.5	0.56	0	0	NA
R-6	9.5	0.61	1	2	NA
R-6	12.5	1.2	25	60	100
R-6	15.5	1.0	60	2	2
R-7	3.5	0.19	0.5	0	NA
R-7	6.5	1.3	1	0.5	NA
R-7	9.5	1.4	3	1	8
R-7	12.5	0.59	2	15	15
R-7	15.5	2.1	25	5	18
R-8	3.5	0.02	0	0	0
R-8	6.5	0.02	0	0	0
R-8	9.5	0.04	2	1	1
R-8	12.5	0.04	2	1	5
R-8	15.5	0.13	10	0	1

NA = Not Analyzed

TABLE B-1 (cont'd)

HNU READINGS FOR EXPLORATORY BORINGS

Exploratory Boring Number	Depth (feet)	Photovac, TCE In Soil (mg/kg)	HNU READINGS (ppm) Boring	Soil Cutting	Soil Bag
R-9	3.5	0.04	NA	0	0.5
R-9	6.5	0.14	4	1	35
R-9	9.5	1.5	150	160	160
R-9	12.5	2.2	70	130	140
R-9	15.5	0.56	120	60	35
R-10	3	0.04	<0.5	1	1
R-1o	6.5	0.25	0	0.5	1
R-10	9.5	0.09	0	16	1
R-10	12.5	0.29	120	125	120
R-10			60		
R-10	15.5	0.34	0	2	6
R-11	3.5	0.12	0 (a)	NA	NA
R-11	6.5	0.13	0 (a)	0 (a)	0 (a)
R-11	9.5	0.05	0 (a)	0 (a)	0 (a)
R-11	12.5	0.02	0	0 (a)	15 (a)
R-11	15.5	0.28	0	0	0
R-12	3.5	0.14	NA	0	4
R-12	6.5	0.25	2.5	0	3.5
R-12	9.5	0.31	NA	0	4.5
R-12	12.5	0.68	NA	0	>500
R-12	15.5	0.37	0	0	300
R-13	3.5	0.09	0	0	0
R-13	6.5	0.09	0	0	0
R-13	9.5	0.08	0	0	0
R-13	12.5	0.05	0	0	<0.5
R-13	15.5	0.37	0	0	0.5
R-14	2.5	0.05	0	0	0
R-14	5.5	0.05	0	0	0
R-14	9.5	0.04	0	0	<0.5
R-14	11.5	0.04	0	0	1
R-14	15.5	0.18	0	0	1
R-15	2.5	0.04	NA	NA	NA
R-15	5.5	0.05	NA	NA	NA
R-15	9	0.06	NA	NA	NA
R-15	11.5	0.05	NA	NA	NA
R-15	15	0.08	NA	NA	NA
R-16	3.	0.08	0	NA	3
R-16	6.	0.07	NA	NA	5
R-16	8.5	0.08	3	0	2
R-16	12	0.09	2	NA	2
R-16	15	0.11	2	NA	5

(a) HNu readings are not considered reliable
(b) The HNu meter spiked to this value and returned to or near zero.
NA = Not Analyzed

TABLE B-1 (cont'd)

HNU READINGS FOR EXPLORATORY BORINGS

			HNU READINGS (ppm)		
Exploratory Boring Number	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Boring	Soil Cutting	Soil Bag
R-17	2.5	0.04	NA	NA	1
R-17	6	0.03	0	NA	1
R-17	9	0.03	NA	NA	NA
R-17	11.5	0.06	NA	NA	3
R-17	15.5	0.07	0	NA	0
R-18	2.5	0.05	0	NA	0
R-18	6.5	0.04	0	NA	0
R-18	9	0.03	NA	NA	0
R-18	12	0.02	NA	NA	NA
R-18	15.5	0.05	2	NA	4
R-19	2.5	0.04	0	NA	NA
R-19	6	0.06	0	NA	2 (b)
R-19	9	0.03	1	NA	2 (b)
R-19	12	0.04	2	NA	NA
R-19	15.5	0.08	0	NA	4 (b)
R-20	3	0.07	0	NA	2 (b)
R-20	6	0.04	0	NA	4 (b)
R-20	9	0.02	0	NA	3 (b)
R-20	12	0.02	1	NA	4 (b)
R-20	15.5	0.08	0	NA	4 (b)
R-21	2.5	0.03	4	NA	1 (b)
R-21	5.5	0.02	NA	NA	2 (b)
R-21	8.5	0.03	NA	NA	1 (b)
R-21	12	0.02	0	NA	NA
R-21	15.5	0.04	1	NA	NA
R-22	2.5	0.04	NA	NA	NA
R-22	6	0.03	0	NA	5 (b)
R-22	9	0.01	0	NA	NA
R-22	12	0.03	1	NA	0
R-22	15.5	0.01	0	NA	4 (b)
R-23	2.5	0.02	0	NA	NA
R-23	6.5	0.06	0	NA	4 (b)
R-23	9	0.04	0	NA	5 (b)
R-23	12	0.03	0	NA	4 (b)
R-23	15.5	0.11	0	NA	4 (b)
R-24	2.5	0.02	NA	NA	NA
R-24	6	0.03	NA	NA	NA
R-24	9	0.02	NA	NA	NA
R-24	12	0.02	0	NA	4 (b)
R-24	15.5	0.02	0	NA	4 (b)

(a) HNu readings are not considered reliable
(b) The HNu meter spiked to this value and returned to or near zero.
NA = Not Analyzed

TABLE B-1 (cont'd)

HNU READINGS FOR EXPLORATORY BORINGS

			HNU READINGS (ppm)		
Exploratory Boring Number	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Boring	Soil Cutting	Soil Bag
R-25	3	0.03	0	NA	NA
R-25	5.5	0.02	0	NA	4 (b)
R-25	9	0.03	0	NA	3 (b)
R-25	12	0.05	0	NA	3 (b)
R-25	15.5	0.02	0	NA	NA
R-26	3	0.05	NA	NA	NA
R-26	5.5	0.02	0	NA	NA
R-26	8.5	0.02	0	NA	4 (b)
R-26	12.5	0.03	0	NA	NA
R-26	15	0.02	0	NA	4 (b)
R-27	2.5	0.04	0	NA	2 (b)
R-27	6.5	0.05	0	NA	0
R-27	9	0.05	0	NA	0
R-27	12	0.04	0	NA	0
R-27	15.5	0.13	0	NA	0
R-28	3	0.06	0	NA	0
R-28	6.5	0.09	0	NA	0
R-28	9.5	0.07	0	0	3 (b)
R-28	12.5	0.04	0	NA	20
R-28	15.5	0.25	0	NA	0
R-29	3	0.05	0	NA	NA
R-29	6	0.15	NA	NA	90
R-29	8.5	0.16	0	700	150
R-29	12.5	0.10	90	NA	3
R-29	15.5	0.10	40	0	0
R-30	3	0.11	0	0	0
R-30	6	0.13	0	0	0
R-30	9	0.10	0	NA	3
R-30	12	0.06	9	20	3
R-30	15.5	0.13	15	3	3
R-31	3.5	0.08	0	NA	0
R-31	5.5	0.06	0	NA	0
R-31	8.5	0.09	0	NA	6
R-31	12.5	0.04	4	NA	20
R-31	15.5	0.14	15	NA	0
R-32	3	0.09	0	NA	0
R-32	5.5	0.07	0	NA	0
R-32	9	0.07	0	NA	2
R-32	12	0.02	0	NA	1
R-32	15	0.15	0	NA	0

(a) HNu readings are not considered reliable
(b) The HNu meter spiked to this value and returned to or near zero.
NA = Not Analyzed

TABLE B-1 (cont'd)

HNU READINGS FOR EXPLORATORY BORINGS

			HNU READINGS (ppm)		
Exploratory Boring Number	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Boring	Soil Cutting	Soil Bag
R-33	3	0.05	0	NA	0
R-33	6	0.11	0	NA	0
R-33	12.5		30	NA	7
R-33	16	0.43	60	NA	0
R-34	3.5	0.05	NA	NA	0
R-34	6.5	0.19	0	NA	4
R-34	9	0.16	1	NA	8
R-34	12.5	0.06	4	NA	12
R-34	15.5	0.13	16	NA	0
R-35	6.5	0.12	0	NA	1 (b)
R-35	9	1.5	0	NA	200
R-35	12.5	1.1	3	40	80
R-35	15.5	1.0	20	NA	6
R-36	3	0.08	0	0	0
R-36	6.5	0.20	0	0	1
R-36	9	0.25	0	NA	3
R-36	12.5	0.39	0	NA	NA
R-36	15.5	0.07	NA	NA	NA

(a) HNu readings are not considered reliable
(b) The HNu meter spiked to this value and returned to or near zero.
NA = Not Analyzed

TABLE B-2

HNU READINGS DURING REMEDIATION

			HNU READINGS (ppm))		
Auger-Hole	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Soil	Borehole	Breathing Zone
BA-1	6	0.042	NA	0	NA
BA-1	12.5	0.043	NA	0	NA
BA-1	16.5	0.100	0	0	NA
BA-2	13.6	0.044	0	0	NA
BA-2	16.5	0.150	0	0	NA
BA-3	3	0.026	NA	NA	NA
BA-3	6	0.027	0	NA	NA
BA-3	10	0.031	0	NA	NA
BA-3	13.6	0.044	NA	0	NA
BA-3	16.5	0.150	0	NA	NA
BA-4	4	0.034	0	0	NA
BA-4	8	0.074	NA	NA	NA
BA-4	12	0.031	3	NA	NA
BA-4	15	0.120	0	0	NA
BA-4	16.5	0.097	0	0	NA
BA-5	10.5	0.120	NA	NA	NA
BA-5	15	0.270	NA	NA	NA
BA-6	5.0	NA	2.5	0	NA
BA-6	5.2	0.100	40	4	NA
BA-6	5.9	NA	6	NA	NA
BA-6	6.7	0.190	60	NA	NA
BA-6	7.8	0.160	50	70	NA
BA-6	8.7	0.290	200	150	NA
BA-6	NM	NA	220	95	NA
BA-6	9.8	NA	120	70	NA
BA-6	10.1	0.110	300	150	NA
BA-6	NM	NA	150	3	NA
BA-6	10.8	NA	90	60	NA
BA-6	12.0	0.064	10	NA	NA
BA-6	12.5	NA	NA	20	NA
BA-6	NM	NA	6	50	NA
BA-6	14.0	0.220	50	40	NA
BA-6	NM	NA	50	NA	NA
BA-6	NM	NA	50	15	NA
BA-7	6.2	NA	NA	2	NA
BA-7	NM	NA	NA	8	NA
BA-7	NM	NA	100	NA	NA
BA-7	9.0	NA	100	NA	NA
BA-7	10.0	NA	NA	100	5
BA-7	12.0	NA	NA	85	NA
BA-7	13.0	NA	NA	40	NA
BA-7	14.5	NA	40	NA	NA

NA = Not Analyzed
NM = Not Measured

TABLE B-2 (cont'd)

HNU READINGS DURING REMEDIATION

			HNU READINGS (ppm)		
Auger-Hole	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Soil	Borehole	Breathing Zone
BA-7	NM	NA	NA	4	NA
BA-7	16.5	NA	NA	10	NA
BA-8	5.5	NA	150	NA	NA
BA-8	NM	NA	NA	40	15
BA-8	11.0	NA	NA	100	2
BA-8	14.5	NA	NA	40	4
BA-8	16.5	NA	NA	45	NA
BA-9	6	0.140	NA	NA	NA
BA-9	9.5	0.058	NA	NA	NA
BA-9	12	0.096	NA	NA	NA
BA-9	15	0.110	NA	NA	NA
BA-11	7.0	NA	2	5	NA
BA-11	11.0	0.037	NA	7	NA
BA-11	NM	NA	NA	15	NA
BA-11	12.0	NA	NA	3	NA
BA-11	NM	NA	NA	10	NA
BA-12	7.5	NA	4	4	NA
BA-12	NM	NA	NA	15	NA
BA-12	10.0	NA	20	NA	NA
BA-12	NM	NA	NA	13	NA
BA-12	NM	NA	NA	9	NA
BA-12	14.5	NA	NA	13	NA
BA-12	15.0	NA	NA	6	NA
BA-13	6.0	0.067	NA	NA	NA
BA-13	9.0	0.250	NA	NA	NA
BA-13	14.0	NA	NA	190	NA
BA-13	16.5	NA	50	110	NA
BA-15	5.5	NA	2	NA	NA
BA-15	NM	NA	NA	35	NA
BA-15	7.0	NA	NA	80	NA
BA-15	8.0	0.110	200	NA	NA
BA-15	9.0	NA	NA	50	NA
BA-15	NM	NA	NA	140	NA
BA-15	NM	NA	NA	200	NA
BA-15	13.0	1.200	200	90	NA
BA-15	NM	NA	NA	120	NA
BA-15	NM	NA	NA	150	NA
BA-15	16.5	0.240	NA	140	NA
BA-16	8.5	NA	40	NA	NA
BA-16	10.0	NA	NA	60	NA
BA-16	11.5	NA	NA	40	NA
BA-16	12.5	NA	100	NA	NA
BA-16	NM	NA	100	NA	NA

NA = Not Analyzed
NM = Not Measured

TABLE B-2 (cont'd)

HNU READINGS DURING REMEDIATION

			HNU READINGS (ppm)		
Auger-Hole	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Soil	Borehole	Breathing Zone
BA-16	NM	NA	150	NA	NA
BA-16	14.0	0.140	140	NA	NA
BA-17	5.5	NA	0	0	NA
BA-17	7.0	NA	NA	35	NA
BA-17	NM	NA	NA	12	0
BA-17	8.0	NA	NA	110	NA
BA-17	9.0	NA	80	75	NA
BA-17	10.2	NA	NA	120	6
BA-17	NM	NA	NA	30	NA
BA-17	NM	NA	NA	20	NA
BA-17	12.2	NA	15	20	NA
NA-17	NM	NA	NA	15	NA
BA-17	14.0	NA	NA	20	6
BA-17	14.9	NA	NA	6	NA
BA-17	15.6	NA	NA	NA	NA
BA-19	11.0	NA	NA	10	NA
BA-19	12.5	NA	NA	120	NA
BA-19	13.0	NA	120	NA	NA
BA-19	13.7	NA	NA	30	NA
BA-19	14.7	NA	NA	140	NA
BA-19	15.5	NA	NA	55	3
BA-19	16.1	NA	NA	30	NA
BA-20	8.5	NA	4	NA	NA
BA-20	NM	NA	6	NA	NA
BA-20	10.5	NA	NA	6	NA
BA-20	11.0	NA	NA	12	NA
BA-20	NM	NA	NA	6	NA
BA-20	13.0	NA	NA	7	0
BA-20	14.5	NA	NQ	10	NA
BA-21	6.0	NA	0	NA	NA
BA-21	6.8	NA	15	NA	NA
BA-21	9.0	NA	50	NA	NA
BA-21	10.0	0.630	50	70	NA
BA-21	11.5	NA	135	160	NA
BA-21	13.5	0.380	190	170	NA
BA-21	14.5	NA	NA	30	NA
BA-21	15.3	NA	NA	NA	NA
BA-21	16.0	0.440	2	18	NA
BA-22	6.3	NA	0	NA	NA
BA-22	7.2	NA	10	3	NA
BA-22	NM	NA	NA	6	NA
BA-22	NM	NA	NA	8	NA
BA-22	NM	NA	NA	20	NA
BA-22	10.5	NA	130	25	NA

NA = Not Analyzed
NM = Not Measured

TABLE B-2 (cont'd)

HNU READINGS DURING REMEDIATION

			HNU READINGS (ppm)		
Auger-Hole	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Soil	Borehole	Breathing Zone
BA-22	NM	NA	NA	70	NA
BA-22	13.5	NA	130	50	3
BA-22	NM	NA	NA	50	0
BA-22	16.2	NA	20	NA	NA
BA-23	6.0	NA	5	NA	NA
BA-23	9.5	NA	NA	60	0
BA-23	NM	NA	NA	100	NA
BA-23	10.5	NA	NA	75	NA
BA-23	NM	NA	NA	30	NA
BA-23	NM	NA	80	20	NA
BA-23	NM	NA	NA	70	NA
BA-23	14.0	NA	60	14	NA
BA-23	NM	NA	15	30	NA
BA-23	15.5	NA	30	NA	NA
BA-23	16.0	0.170	25	3	NA
BA-25	8.5		NA	6	NA
BA-25	NM	NA	45	NA	NA
BA-25	NM	NA	NA	100	NA
BA-25	9.7	NA	NA	130	NA
BA-25	NM	NA	NA	125	NA
BA-25	11.0	NA	140	NA	NA
BA-25	11.5	NA	NA	60	NA
BA-25	NM	NA	NA	100	NA
BA-25	13.5	NA	NA	50	NA
BA-25	NM	NA	NA	100	NA
BA-25	15.8	NA	NA	5	NA
BA-25	16.1	NA	13	NA	NA
BA-26	3.0	NA	4	NA	NA
BA-26	6.0	NA	NA	15	NA
BA-26	9.5	NA	NA	20	NA
BA-26	10.5	0.082	130	170	NA
BA-26	13.5	NA	30	70	NA
BA-26	15.0	0.330	10	20	NA
BA-26	16.0	NA	NA	18	NA
BA-27	5.0	NA	0	NA	NA
BA-27	5.5	NA	6	10	NA
BA-27	6.5	NA	2	5	NA
BA-27	8.4	NA	NA	20	NA
BA-27	9.0	0.200	2	25	NA
BA-27	11.0	0.067	120	100	NA
BA-28	5.5	0.007	4	2	NA
BA-28	7.8	NA	NA	19	NA
BA-28	9.0	NA	NA	100	20

NA = Not Analyzed
NM = Not Measured

TABLE B-2 (cont'd)

HNU READINGS DURING REMEDIATION

Auger-Hole	Depth (feet)	Photovac, TCE In Soil (mg/kg)	HNU READINGS (ppm) Soil	Borehole	Breathing Zone
BA-28	10.0	0.200	200	50	NA
BA-28	11.0	NA	180	100	5
BA-28	11.7	0.059	200	50	NA
BA-28	13.0	NA	50	15	NA
BA-28	14.5	NA	45	30	NA
BA-28	15.5	0.490	15	20	NA
BA-28	16.2	NA	45	NA	NA
BA-31	4.0	0.043	5	NA	NA
BA-31	5.0	0.060	20	NA	NA
BA-31	6.0	NA	15	6	0
BA-31	7.0	0.070	15	20	0
BA-31	8.5	0.170	100	80	NA
BA-31	10.5	NA	50	90	3
BA-31	12.0	0.038	40	15	NA
BA-31	14.0	NA	50	50	NA
BA-31	15.0	0.086	15	NA	NA
BA-31	16.0	NA	12	60	1
BA-32	2.5	NA	7	0	NA
BA-32	NM	NA	10	NA	NA
BA-32	5.5	0.051	10	0	NA
BA-32	8.0	0.460	120	15	NA
BA-32	9.5	NA	200	35	NA
BA-32	11.5	0.039	50	60	NA
BA-32	12.5	NA	40	135	0
BA-32	13.5	0.036	50	10	NA
BA-32	15.5	0.150	12	20	0
BA-32	16.5	0.097	1	30	NA
BA-33	3.5	NA	7	0	0
BA-33	4.5	NA	9	3	0
BA-33	NM	NA	5	0	0
BA-33	7.0	0.036	15	10	NA
BA-33	8.0	0.029	180	60	NA
BA-33	9.5	NA	150	110	30
BA-33	11.0	0.068	>200	60	20
BA-33	12.5	0.099	150	170	20
BA-33	14.5	0.100	160	160	25
BA-33	15.0	0.088	100	195	100
BA-33	16.0	0.150	60	130	15
BA-34	2.5	NA	5	0	NA
BA-34	7.0	NA	6	NA	NA
BA-34	9.0	NA	5	10	NA
BA-34	10.0	0.030	7	15	NA
BA-34	11.0	NA	50	25	NA
BA-34	12.0	0.066	120	50	NA

NA = Not Analyzed
NM = Not Measured

TABLE B-2 (cont'd)

HNU READINGS DURING REMEDIATION

			HNU READINGS (ppm)		
Auger-Hole	Depth (feet)	Photovac, TCE In Soil (mg/kg)	Soil	Borehole	Breathing Zone
BA-34	13.0	NA	60	50	NA
BA-34	14.5	0.076	60	90	NA
BA-34	15.5	0.210	60	40	NA
BA-34	16.5	0.300	10	40	NA
BA-35	8.5	NA	4.5	4	NA
BA-35	10.5	0.094	18	30	NA
BA-35	11.5	0.062	10	6	NA
BA-35	13.0	0.100	75	150	3
BA-35	13.5	0.340	100	50	1
BA-35	14.0	0.110	45	20	NA
BA-35	15.5	0.270	65	75	NA
BA-35	16.0	0.290	35	50	NA
BA-36	4.0	NA	6	NA	NA
BA-36	6.5	NA	7	3	NA
BA-36	8.0	0.089	12	NA	NA
BA-36	9.0	NA	12	11	NA
BA-36	10.0	0.035	120	80	20
BA-36	12.0	0.036	50	45	NA
BA-36	13.0	NA	45	55	NA
BA-36	14.0	0.068	55	75	NA
BA-36	15.0	0.450	12	NA	NA
BA-36	16.0	0.280	125	20	NA
BA-37	2.5	NA	9	NA	NA
BA-37	6.0	0.022	5	NA	NA
BA-37	6.5	NA	15	NA	NA
BA-37	7.5	NA	6	3	NA
BA-37	8.5	0.026	20	1	NA
BA-37	10.0	0.024	120	65	0
BA-37	11.0	0.039	190	70	NA
BA-37	12.5	0.062	100	60	NA
BA-37	14.5	0.092	60	50	NA
BA-37	15.5	0.056	50	30	NA
BA-37	16.0	NA	10	60	NA

NA = Not Analyzed
NM = Not Measured

APPENDIX C - INDEX TO LABORATORY REPORTS
CROSS-REFERENCED TO THE EXPLORATORY BORINGS IN NUMERICAL ORDER

Exploratory Boring	Sample ID	Depth (feet)	LABORATORY REPORT NUMBER			
			For Method 8010	For Method 8020	For Method 8040	For Metals
R-1	R-1-6.0-6.5	6.0 - 6.5	1	NA	NA	NA
R-1	R-1-9.0-9.5	9.0 - 9.5	1	2	2	2
R-1	R-1-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-1	R-1-15.0-15.5	15.0 - 15.5	1	NA	NA	NA
R-2	R-2-6.0-6.5	6.0 - 6.5	2	NA	NA	NA
R-2	R-2-9.0-9.5	9.0 - 9.5	10	NA	NA	NA
R-2	R-2-12.0-12.5	12.0 - 12.5	2	NA	NA	NA
R-2	R-2-15.0-15.5	15.0 - 15.5	10	NA	NA	NA
R-3	R-3-6.0-6.5	6.0 - 6.5	2	NA	NA	NA
R-3	R-3-9.0-9.5	9.0 - 9.5	2	NA	NA	NA
R-3	R-3-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-3	R-3-15.0-15.5	15.0 - 15.5	10	NA	NA	NA
R-4	R-4-9.0-9.5	9.0 - 9.5	3	NA	NA	NA
R-4	R-4-12.0-12.5	12.0 - 12.5	3	NA	NA	NA
R-5	R-5-3.0-3.5	3.0 - 3.5	10	NA	NA	NA
R-5	R-5-6.0-6.5	6.0 - 6.5	3	NA	NA	NA
R-5	R-5-9.0-9.5	9.0 - 9.5	3	NA	NA	NA
R-5	R-5-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-6	R-6-6.0-6.5	6.0 - 6.5	10	NA	NA	NA
R-6	R-6-9.0-9.5	9.0 - 9.5	4	NA	NA	NA
R-6	R-6-12.0-12.5	12.0 - 12.5	4	NA	NA	NA
R-7	R-7-6.0-6.5	6.0 - 6.5	4	NA	NA	NA
R-7	R-7-9.0-9.5	9.0 - 9.5	4	5	5	5
R-7	R-7-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-7	R-7-15.0-15.5	15.0 - 15.5	6	NA	NA	NA
R-8	R-8-9.0-9.5	9.0 - 9.5	6	NA	NA	NA
R-8	R-8-12.0-12.5	12.0 - 12.5	6	NA	NA	NA
R-9	R-9-9.0-9.5	9.0 - 9.5	7	NA	NA	NA
R-9	R-9-12.0-12.5	12.0 - 12.5	7	NA	NA	NA
R-10	R-10-2.5-3.0	2.5 - 3.0	10	NA	NA	NA
R-10	R-10-6.0-6.5	6.0 - 6.5	7	NA	NA	NA
R-10	R-10-9.0-9.5	9.0 - 9.5	10	NA	NA	NA
R-10	R-10-12.0-12.5	12.0 - 12.5	7	7	7	7
R-10	R-10-15.0-15.5	15.0 - 15.5	8	8	8	8
R-11	R-11-3.0-3.5	3.0 - 3.5	10	NA	NA	NA
R-11	R-11-6.0-6.5	6.0 - 6.5	8	8	8	8
R-11	R-11-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-11	R-11-15.0-15.5	15.0 - 15.5	8	NA	NA	NA
R-12	R-12-3.0-3.5	3.0 - 3.5	10	NA	NA	NA
R-12	R-12-6.0-6.5	6.0 - 6.5	10	NA	NA	NA
R-12	R-12-9.0-9.5	9.0 - 9.5	8	8	8	8
R-12	R-12-12.0-12.5	12.0 - 12.5	8	8	8	8

NA = Not Analyzed

APPENDIX C - INDEX TO LABORATORY REPORTS (cont'd)
CROSS-REFERENCED TO THE EXPLORATORY BORINGS IN NUMERICAL ORDER

Exploratory Boring	Sample ID	Depth (feet)	LABORATORY REPORT NUMBER			
			For Method 8010	For Method 8020	For Method 8040	For Metals
R-13	R-13-3.0-3.5	3.0 - 3.5	9	NA	NA	NA
R-13	R-13-6.0-6.5	6.0 - 6.5	9	NA	NA	NA
R-14	R-14-5.5-6.0	5.5 -6.0	9	NA	NA	NA
R-14	R-14-11.5-12.0	11.5 - 12.0	9	NA	NA	NA
R-15	R-15-9.0-9.5	9.0 - 9.5	9	NA	NA	NA
R-15	R-15-11.5-12.0	11.5 - 12.0	9	NA	NA	NA
R-16	R-16-6.0-6.5	6.0 - 6.5	9	NA	NA	NA
R-16	R-16-12.0-12.5	12.0 - 12.5	9	NA	NA	NA
R-17	R-17-6.0-6.5	6.0 - 6.5	10	NA	NA	NA
R-17	R-17-11.5-12.0	11.5 - 12.0	10	NA	NA	NA
R-18	R-18-2.5-3.0	2.5 - 3.0	10	NA	NA	NA
R-18	R-18-9.0-9.5	9.0 - 9.5	10	NA	NA	NA
R-19	R-19-6.0-6.5	6.0 - 6.5	10	NA	NA	NA
R-19	R-19-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-20	R-20-3.0-3.5	3.0 - 3.5	10	NA	NA	NA
R-20	R-20-12.5-13.0	12.5 - 13.0	10	NA	NA	NA
R-21	R-21-5.5-6.0	5.5 - 6.0	10	NA	NA	NA
R-21	R-21-12.0-12.5	12.0 - 12.5	10	NA	NA	NA
R-22	R-22-6.0-6.5	6.0 - 6.5	11	NA	NA	NA
R-22	R-22-12.0-12.5	12.0 - 12.5	11	NA	NA	NA
R-23	R-23-6.0-6.5	6.0 - 6.5	11	11	11	11
R-23	R-23-9.0-9.5	9.0 - 9.5	11	NA	NA	NA
R-24	R-24-6.0-6.5	6.0 - 6.5	11	NA	NA	NA
R-24	R-24-12.0-12.5	12.0 - 12.5	11	NA	NA	NA
R-25	R-25-3.0-3.5	3.0 - 3.5	11	NA	NA	NA
R-25	R-25-12.0-12.5	12.0 - 12.5	11	NA	NA	NA
R-26	R-26-3.0-3.5	3.0 - 3.5	11	NA	NA	NA
R-26	R-26-12.0-12.5	12.0 - 12.5	11	NA	NA	NA
R-27	R-27-6.0-6.5	6.0 - 6.5	12	NA	NA	NA
R-27	R-27-11.5-12.0	11.5 - 12.0	12	NA	NA	NA
R-28	R-28-6.0-6.5	6.0 - 6.5	12	NA	NA	NA
R-28	R-28-12.0-12.5	12.0 - 12.5	12	NA	NA	NA
R-29	R-29-5.5-6.0	5.5 - 6.0	12	NA	NA	NA
R-29	R-29-8.5-9.0	8.5 - 9.0	12	12	12	12
R-30	R-30-6.0-6.5	6.0 - 6.5	12	NA	NA	NA
R-30	R-30-12.0-12.5	12.0 - 12.5	12	NA	NA	NA
R-31	R-31-8.5-9.0	8.5 - 9.0	12	NA	NA	NA
R-31	R-31-12.0-12.5	12.0 - 12.5	12	NA	NA	NA

NA = Not Analyzed

APPENDIX C - INDEX TO LABORATORY REPORTS (cont'd)
CROSS-REFERENCED TO THE EXPLORATORY BORINGS IN NUMERICAL ORDER

Exploratory Boring	Sample ID	Depth (feet)	LABORATORY REPORT NUMBER			
			For Method 8010	For Method 8020	For Method 8040	For Metals
R-32	R-32-3.0-3.5	3.0 - 3.5	13	NA	NA	NA
R-32	R-32-8.5-9.0	8.5 - 9.0	13	NA	NA	NA
R-33	R-33-12.0-12.5	12.0 - 12.5	13	NA	NA	NA
R-33	R-33-15.5-16.0	15.5 - 16.0	13	NA	NA	NA
R-34	R-34-6.0-6.5	6.0 - 6.5	13	13	13	13
R-34	R-34-9.0-9.5	9.0 - 9.5	13	NA	NA	NA
R-35	R-35-8.5-9.0	8.5 - 9.0	14	NA	NA	NA
R-35	R-35-12.0-12.5	12.0 - 12.5	14	NA	NA	NA
R-35	R-35-15.0-15.5	15.0 - 15.5	14	NA	NA	NA
R-36	R-36-9.0-9.5	9.0 - 9.5	14	NA	NA	NA
R-36	R-36-12.0-12.5	12.0 - 12.5	14	NA	NA	NA

NA = Not Analyzed

SEQUOIA ANALYTICAL
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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 4 soil samples received at Sequoia Analytical on November 6,1991. The requested analyses are listed below:

1111190	Soil, R-1-6.0-6.5'	11/6/91	EPA 5030/8010
1111191	Soil, R-1-9.0-9.5'	11/6/91	EPA 5030/8010
1111192	Soil, R-1-15.0-15.5'	11/6/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-6.0-6.5'	Received:	Nov 6, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 7, 1991
Attention: Phil Chopan	Lab Number:	111-1190	Reported:	Nov 8, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	‡20

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-9.0-9.5'	Received:	Nov 6, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 7, 1991
Attention: Phil Chopan	Lab Number:	111-1191	Reported:	Nov 8, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**330**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
Freon 113	**0.5**	**9.2**

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-15.0-15.5'	Received:	Nov 6, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 7, 1991
Attention: Phil Chopan	Lab Number:	111-1192	Reported:	Nov 8, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	220

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

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1111190 - 92

Reported: Nov 8, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	J.Villar	J.Villar	J.Villar
Reporting Units:	µg/L	µg/L	µg/L
Date Analyzed:	Nov 7, 1991	Nov 7, 1991	Nov 7, 1991
QC Sample #:	Blank	Blank	Blank
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	4.5	5.0	4.3
Matrix Spike % Recovery:	90	100	86
Conc. Matrix Spike Dup.:	4.5	4.9	4.3
Matrix Spike Duplicate % Recovery:	90	98	86
Relative % Difference:	0.0	2.1	0.0

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Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.}) / 2} \times 100$

CHAIN OF CUSTODY RECORD COPY 1490

BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View BECHTEL SUPERVISOR Janet Argyres

DATE 11/7/91

Charge to Bechtel P.O. # 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
1111190 R-1-6.0-6.5	Soil	11/6/91 14:18	none		24 hour TAT ✓	Analyze for TCE only *
1111191 R-1-9.0-9.5	Soil	11/6/91 14:55	none		✓	24 hour TAT! 8010 * Analyze for ~~TCE only~~ + Freon 113 plus 1,2,4 Trichlorobenzene
						Also analyze for following on 7 day TAT: ① ~~EPA 8010 plus Freon 113 and 1,2,4 Trichlorobenzene~~
						② EPA 8020, 8040
						③ 6010 (Ant., Cad.)
						④ 7060 (Arsenic)
						⑤ 7421 (lead)
1111192 R-1-15.0-15.5	Soil	11/6/91 16:20	none		✓	24 hour TAT! Analyze for TCE Only
~~FB #1~~	~~Water~~		~~HCl~~		~~✓~~	~~EPA 8010~~

* Data Validation Package Requested on all TCE/8010 Analyses.

RELINQUISHED BY Robert Gibbs DATE/TIME 11/7/91 18:30 RECEIVED BY Mxguyen 4:

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 5 soil samples, 1 water samples, received at Sequoia Analytical on November 7,1991. The requested analyses are listed below:

1111191	Soil, R-1-9.0-9.5	11/6/91	Antimony, Cadmium, Lead, Arsenic EPA 5030/8020 EPA 8040
1111193	Soil, R-2-6.0-6.5	11/7/91	EPA 5030/8010
1111194	Soil, R-2-12.0-12.5	11/7/91	EPA 5030/8010
1111195	Soil, R-3-6.0-6.5	11/7/91	EPA 5030/8010
1111196	Soil, R-3-9.0-9.5	11/7/91	EPA 5030/8010
1111197	Water, TB #1	11/5/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-9.0-9.5	Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 7, 1991
Attention: Phil Chopan	Lab Number:	111-1191	Reported:	Nov 15, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	5.8
Xylene	5.0	N.D.

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-9.0-9.5	Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 8, 1991
Attention: Phil Chopan	Lab Number:	111-1191	Analyzed:	Nov 12, 1991
			Reported:	Nov 15, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-9.0-9.5	Received:	Nov 7, 1991
San Francisco, CA 94119			Extracted:	Nov 11, 1991
Attention: Phil Chopan	Lab Number:	111-1191	Analyzed:	Nov 14, 1991
			Reported:	Nov 15, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**110**
Cadmium	0.50	N.D.
Lead	5.0	N.D.
Arsenic	**5.0**	**21**

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

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Project Manager

1111191 BEE <3>

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-2-6.0-6.5	Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 12, 1991
Attention: Phil Chopan	Lab Number:	111-1193	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	8.2

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

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Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-2-12.0-12.5	Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 12, 1991
Attention: Phil Chopan	Lab Number:	111-1194	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	17

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

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Project Manager

1111191 BEE <5>

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-3-6.0-6.5	Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 12, 1991
Attention: Phil Chopan	Lab Number:	111-1195	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-3-9.0-9.5	Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 13, 1991
Attention: Phil Chopan	Lab Number:	111-1196	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.9

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

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Bechtel Environmental	Client Project ID:	#17660		Sampled:	Nov 5, 1991
P.O. Box 3965	Sample Descript:	Water, TB #1		Received:	Nov 7, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 13, 1991
Attention: Phil Chopan	Lab Number:	111-1197		Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

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

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Malle A. Springer
Project Manager

1111191 BEE <8>

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-1191

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Chloro-Benzene
Method:	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.Villar	J.Villar	J.Villar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 7, 1991	Nov 7, 1991	Nov 7, 1991
QC Sample #:	BLK110791	BLK110791	BLK110791
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	48	50	55
Matrix Spike % Recovery:	96	100	110
Conc. Matrix Spike Dup.:	48	49	55
Matrix Spike Duplicate % Recovery:	96	98	110
Relative % Difference:	0.0	2.0	0.0

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-1191

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-Chloro-3-Methylphenol	4-Nitro-phenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-1191

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Cadmium	Arsenic	Lead
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991
QC Sample #:	111-0312	111-0312	111-0312	111-0312
Sample Conc.:	110	N.D.	13	N.D.
Spike Conc. Added:	50	50	50	50
Conc. Matrix Spike:	150	50	71	54
Matrix Spike % Recovery:	80	100	116	108
Conc. Matrix Spike Dup.:	150	52	79	55
Matrix Spike Duplicate % Recovery:	80	104	132	110
Relative % Difference:	0.0	3.9	11	1.8

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1111193 - 97

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	J.Villar	J.Villar	J.Villar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	111-1947	111-1947	111-1947
Sample Conc.:	N.D.	230	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	45	290	42
Matrix Spike % Recovery:	90	120	84
Conc. Matrix Spike Dup.:	48	290	45
Matrix Spike Duplicate % Recovery:	96	120	90
Relative % Difference:	6.5	0.0	6.9

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

CHAIN OF CUSTODY RECORD — COPY

1490

BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View BECHTEL SUPERVISOR Janet Argyres

DATE 11/7/91

Charge to Bechtel P.O. # 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
111190 R-1-6.0-6.5	Soil	11/6/91 14:18	none		24 hour TAT ✓	Analyze for TCE only *
111191 R-1-9.0-9.5	Soil	11/6/91 14:55	none		(24 hour TAT) ✓	8010, Analyze for ~~TCE only~~ + Freon 113 plus 1,2,4 TMB *
	Also analyze for following on 7 day TAT:					① ~~EPA 8010 plus Freon 113 and 1,2,4 Trimethylbenzene~~
						② EPA 8020, 8040
						③ 6010 (Ant., Cd.)
						④ 7060 (Arsenic)
						⑤ 7421 (lead)
111192 R-1-15.0-15.5	Soil	11/6/91 16:20	none		✓	24 hour TAT Analyze for TCE Only
~~EB#~~	~~Water~~		~~HCl~~		~~✓~~	~~EPA 8010~~

* Data Validation Package Requested on all TCE/8010 Analyses.

RELINQUISHED BY Robert Gibbs DATE/TIME 11/7/91 15:30 RECEIVED BY Mxguyen 4

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

CHAIN OF CUSTODY RECORD COPY

1323

BECHTEL PROJECT NO. 17660

LABORATORY PROJECT NO.

SITE IDENTIFICATION NEC - Mtn. View

SAMPLER'S NAME Robert Gibbs

SAMPLER'S SIGNATURE Robert Gibbs

BECHTEL SUPERVISOR Janet Anguyen

DATE 11/7/91

Change to Bechtel ~~Inc~~ P.O.# 17660-005-F039-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-2-6.0-6.5	Soil	11/7/91 0919	none	111193	✓	TCE Only *
R-2-12.0-12.5	Soil	11/7/91 1016	none	111194	✓	TCE Only *
R-3-6.0-6.5	Soil	11/7/91 12:40	none	111195	✓	TCE Only *
R[illegible]-9.0-9.5	Soil	11/7/91 13:09	none	111196	✓	TCE Only *
TB#1	Water	11/5/91 8:04	HCl	111197	✓	EPA 8010. *
7 Day TAT requested for these samples						
* Data Validation Package Requested on all TCE/8010 Analyses						

RELINQUISHED BY Robert Gibbs DATE/TIME 11/7/91 13:30 RECEIVED BY T Nguyen 11/7

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 4 soil samples, 1 water samples, 0 other samples received at Sequoia Analytical on November 11,1991. The requested analyses are listed below:

1111951	Soil, R-4-9.0-9.5	11/9/91	EPA 5030/8010
1111952	Soil, R-4-12.0-12.5	11/9/91	EPA 5030/8010
1111953	Soil, R-5-6.0-6.5	11/9/91	EPA 5030/8010
1111954	Soil, R-5-9.0-9.5	11/9/91	EPA 5030/8010
1111955	Water, TB #3	11/9/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 9, 1991
P.O. Box 3965	Sample Descript:	Soil, R-4-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 13, 1991
Attention: Phil Chopan	Lab Number:	111-1951	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	22

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 9, 1991
P.O. Box 3965	Sample Descript:	Soil, R-4-12.0-12.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-1952	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	25	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 9, 1991
P.O. Box 3965	Sample Descript:	Soil, R-5-6.0-6.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-1953	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	12

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1111951.BEE <3>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 9, 1991
P.O. Box 3965	Sample Descript:	Soil, R-5-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-1954	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	23

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 9, 1991
P.O. Box 3965	Sample Descript:	Water, TB #3	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-1955	Reported:	Nov 15, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1111951 - 55

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1,-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991
QC Sample #:	1111195MS	1111195MS	1111195MS
Sample Conc.:	N.D.	0.50	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	4.8	6.0	4.3
Matrix Spike % Recovery:	96	110	86
Conc. Matrix Spike Dup.:	4.6	6.2	4.4
Matrix Spike Duplicate % Recovery:	92	114	88
Relative % Difference:	4.3	3.6	2.3

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

CHAIN OF CUSTODY RECORD COPY

1479

BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC-Mtn. View BECHTEL SUPERVISOR Janet Argyres

DATE 11/11/91

Change to Bechtel Invoice # 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
111951 R-4-9.0-9.5	Soil	11/9/91 0846	none	111951	√	(8010) TCE only 5 Day T
111952 R-4-12.0-12.5		11/9/91 0909		52	√	
111953 R-5-6.0-6.5		11/9/91 1157		53	√	
111954 [illegible]5-9.0-9.5		11/9/91 1220		54	√	
111955 TB#3	water	—	HCl	55	√	8010
	- Request Lab Blank Results					
	5 day TAT on all samples					
	samples packed on ice					

RELINQUISHED BY Robert Gibbs DATE/TIME _____ RECEIVED BY [illegible]

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 4 soil samples received at Sequoia Analytical on November 11,1991. The requested analyses are listed below:

1111947	Soil, R-6-9.0-9.5	11/11/91	EPA 5030/8010
1111948	Soil, R-6-12.0-12.5	11/11/91	EPA 5030/8010
1111949	Soil, R-7-6.0-6.5	11/11/91	EPA 5030/8010
1111950	Soil, R-7-9.0-9.5	11/11/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-6-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 11, 1991
Attention: Phil Chopan	Lab Number:	111-1947	Reported:	Nov 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	230

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-6-12.0-12.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 11, 1991
Attention: Phil Chopan	Lab Number:	111-1948	Reported:	Nov 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	550

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-6.0-6.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 11, 1991
Attention: Phil Chopan	Lab Number:	111-1949	Reported:	Nov 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	290

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 11, 1991
Attention: Phil Chopan	Lab Number:	111-1950	Reported:	Nov 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**24**
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**260**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

CHAIN OF CUSTODY RECORD

1488

COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View

BECHTEL SUPERVISOR Janet Argyres

DATE 11/11/91

Mailo Springer

Charge to Bechtel Invoice # 17660-005-F037-T&C

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS	
R-6-9.0-9.5	Soil	11/11/91 0840	none	11 1947	✓	TCE Only	24hr TAT
R-6-12.0-12.5	Soil	11/11/91 0915		48	✓	TCE Only	24hr TAT
R-7-6.0-6.5	Soil	11/11/91 1228		49	✓	TCE Only	24hr TAT
R-7-9.0-9.5	Soil	11/11/91 1248		50	✓	8010	24hr TAT
Also analyze R-7-9.0-9.5 for the						8020, 8040,	
following with a 5 day TAT.						6010 (Antimony, Cadmium	
						7060 (Arsenic)	
- Request Lab Blank Results.						7421 (Lead)	
samples packed on ice.							
Fax Results to Rob Gibbs @							

RELINQUISHED BY Robert Gibbs DATE/TIME _____ RECEIVED BY Flora L. Hill

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 2 soil samples received at Sequoia Analytical on November 11,1991. The requested analyses are listed below:

1111950	Soil, R-7-9.0-9.5	11/11/91	Antimony, Cadmium, Lead, Arsenic EPA 8040
1111950 R	Soil, R-7-9.0-9.5	11/11/91	EPA 5030/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 13, 1991
Attention: Phil Chopan	Lab Number:	111-1950 R	Reported:	Nov 15, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 13, 1991
Attention: Phil Chopan	Lab Number:	111-1950	Analyzed:	Nov 14, 1991
			Reported:	Nov 15, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-9.0-9.5	Received:	Nov 11, 1991
San Francisco, CA 94119			Extracted:	Nov 12, 1991
Attention: Phil Chopan	Lab Number:	111-1950	Analyzed:	Nov 13, 1991
			Reported:	Nov 15, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	89
Cadmium	0.50	N.D.
Lead	5.0	N.D.
Arsenic	5.0	N.D.

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

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Maile A. Springer
Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-1950

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Chloro-Benzene
Method:	EPA 8020	EPA 8020	EPA 8020
Analyst:	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991
QC Sample #:	111195MS	111195MS	111195MS
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	5.1	5.4	5.7
Matrix Spike % Recovery:	102	108	114
Conc. Matrix Spike Dup.:	5.1	5.4	5.7
Matrix Spike Duplicate % Recovery:	102	108	114
Relative % Difference:	0.0	0.0	0.0

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Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}}$	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-1950

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-Chloro-3-Methylphenol	4-Nitro-phenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

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Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-1950

Reported: Nov 15, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Cadmium	Arsenic	Lead
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	111-2109	111-2109	111-2109	111-2109
Sample Conc.:	7.9	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50
Conc. Matrix Spike:	59	51	54	52
Matrix Spike % Recovery:	102	102	108	104
Conc. Matrix Spike Dup.:	60	52	53	53
Matrix Spike Duplicate % Recovery:	104	104	108	106
Relative % Difference:	1.7	1.9	1.9	1.9

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

BECHTEL

CHAIN OF CUSTODY RECORD COPY 488

BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View BECHTEL SUPERVISOR Janet Argyres

DATE 11/11/91 Maile Springer

Charge to Bechtel Invoice # 17660-005-F037-T6C

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-6-9.0-9.5	Soil	11/11/91 0840	none		✓	TCE Only 24hr TA
R-6-12.0-12.5	Soil	11/11/91 0915	↓		✓	TCE Only 24hr TA
R-7-6.0-6.5	Soil	11/11/91 1228	↓		✓	TCE Only 24hr TA
R-7-9.0-9.5	Soil	11/11/91 1248	↓	1111950	✓	8010 24hr TA
→ Also analyze R-7-9.0-9.5 for the following with a 5 day TAT:						8020, 8040, 6010 (Antimony, Cadmium) 7060 (Arsenic) 7421 (Lead)
- Request Lab Blank Results.						
samples packed on ice						
Fax Results to Rob Gibbs @						

RELINQUISHED BY Robert Gibbs DATE/TIME _____ RECEIVED BY [signature] 11/16

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 3 soil samples, 1 water samples, received at Sequoia Analytical on November 12,1991. The requested analyses are listed below:

1112214	Soil, R-7-15.0-15.5	11/11/91	EPA 5030/8010
1112215	Soil, R-8-9.0-9.5	11/12/91	EPA 5030/8010
1112216	Soil, R-8-12.0-12.5	11/12/91	EPA 5030/8010
1112217	Water, TB #4	N/A	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-15.0-15.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 21, 1991
Attention: Phil Chopan	Lab Number:	111-2214	Reported:	Nov 23, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	370

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

SEQUOIA ANALYTICAL

Maile A. Springer

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-8-9.0-9.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 21, 1991
Attention: Phil Chopan	Lab Number:	111-2215	Reported:	Nov 23, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	15

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660		Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-8-12.0-12.5		Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 21, 1991
Attention: Phil Chopan	Lab Number:	111-2216		Reported:	Nov 23, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	14

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

SEQUOIA ANALYTICAL

Maile A. Springer

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	N/A
P.O. Box 3965	Sample Descript:	Water, TB #4	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 21, 1991
Attention: Phil Chopan	Lab Number:	111-2217	Reported:	Nov 23, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Trichloroethene	0.50	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1112214.BEE <4>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1112214-17

Reported: Nov 23, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 21, 1991	Nov 21, 1991	Nov 21, 1991
QC Sample #:	BLK112191	BLK112191	BLK112191
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	46	52	42
Matrix Spike % Recovery:	92	104	84
Conc. Matrix Spike Dup.:	45	53	42
Matrix Spike Duplicate % Recovery:	90	106	84
Relative % Difference:	2.2	1.9	0.0

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Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Conc. of M S. - Conc. of M.S.D.}}{\text{(Conc of M.S. + Conc. of M.S.D) / 2}}$	x 100

CHAIN OF CUSTODY RECORD

1478

COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC Mtn. View

BECHTEL SUPERVISOR Janet Angynes

DATE 11/12/91

Bill to Bechtel P.O.# 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-7-15.0-15.5 112214	Soil	11/11/91 1402	none		✓	TCE only
R-8-9.0-9.5 112215	↓	11/12/91 0840	↓		✓	↓
R-8-12.0-12.5 112216	↓	11/12/91 0920	↓		✓	↓
TB# 4 112217	Water	–	HCl		✓	↓
–	(standard) 10 day TAT on all samples					
–	~~Results~~ Request results from Lab Blank					
–	samples shipped on ice					

RELINQUISHED BY Robert Gibbs DATE/TIME 11/12/91 1816 RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY Sophia Pantoja FOR LABORATORY, DATE/TIME 11-12 1816

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 4 soil samples received at Sequoia Analytical on November 12,1991. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1112172	Soil, R-9-9.0-9.5	11/12/91	EPA 5030/8010
1112173	Soil, R-9-12.0-12.5	11/12/91	EPA 5030/8010
1112174	Soil, R-10-6.0-6.5	11/12/91	EPA 5030/8010
1112175	Soil, R-10-12.0-12.5	11/12/91	Sb, Cd, Pb, As EPA 5030/8010 EPA 5030/8020 EPA 8040

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-9-9.0-9.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2172	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	200	4,100

Analytes reported as N.D were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-9-12.0-12.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2173	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	100	650

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-6.0-6.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2174	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	25

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-12.0-12.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2175	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	**50**	**210**
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Methylene chloride	200	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**67**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-12.0-12.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2175	Reported:	Nov 18, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	50	N.D.
Chlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,2-Dichlorobenzene	50	N.D.
Ethyl Benzene	**50**	**1,500**
Toluene	50	N.D.
Xylene	**50**	**1,300**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-12.0-12.5	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 13, 1991
Attention: Phil Chopan	Lab Number:	111-2175	Analyzed:	Nov 14, 1991
			Reported:	Nov 15, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-12.0-12.5	Received:	Nov 12, 1991
San Francisco, CA 94119			Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2175	Analyzed:	Nov 14, 1991
			Reported:	Nov 18, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**88**
Cadmium	0.50	N.D.
Lead	5.0	N.D.
Arsenic	**5.0**	**18**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1112172 - 75

Reported: Nov 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.Villar	J.Villar	J.Villar	J.Villar	J.Villar	J.Villar
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991
QC Sample #:	111-1195	111-1195	111-1195	111-1195	111-1195	111-1195
Sample Conc.:	N.D.	4.8	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	48	60	43	51	54	57
Matrix Spike % Recovery:	96	110	86	102	108	114
Conc. Matrix Spike Dup.:	46	62	44	51	54	57
Matrix Spike Duplicate % Recovery:	92	114	88	102	108	114
Relative % Difference:	4.3	3.6	2.3	0.0	0.0	0.0

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% Recovery:	$\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}}$	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-2175

Reported: Nov 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenols	4-Chloro-e-Methylphenol	4-Nitro-phenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

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Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
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Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 111-2175

Reported: Nov 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Cadmium	Arsenic	Lead
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefessr	C.Medefessr	C Medefessr	C.Medefessr
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991	Nov 14, 1991
QC Sample #:	111-0312	111-0312	111-0312	111-0312
Sample Conc.:	110	N.D.	13	N.D.
Spike Conc. Added:	50	50	50	50
Conc. Matrix Spike:	150	50	71	54
Matrix Spike % Recovery:	80	100	116	108
Conc. Matrix Spike Dup.:	150	52	79	55
Matrix Spike Duplicate % Recovery:	80	104	132	110
Relative % Difference:	0.0	3.9	11	1.8

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% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

CHAIN OF CUSTODY RECORD

COPY

1477

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View

BECHTEL SUPERVISOR Janet Argyres

DATE 11/12/91

Bill to Bechtel P.O. # 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-9-90-95	Soil	11/12/91 1103	none		✓	1112172 TCE only
R-9-120-125 ~~R-9-90~~		11/12/91 1129			✓	73
R-10-60-65		11/12/91 1320			✓	34
10-120-125		11/12/91 1607			✓	75
—	Request	3 day	TAT on all samples			
—	Request	Results	from Lab Blank.			
—	samples	shipped	on ice			

RELINQUISHED BY Robert Gibbs DATE/TIME 11/12/91 1816 RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY Joplin Patrick FOR LABORATORY, DATE/TIME 11-12 1816

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME

SEQUOIA ANALYTICAL
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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 5 soil samples received at Sequoia Analytical on November 13,1991. The requested analyses are listed below:

1112465	Soil, R-10-15.0-15.5	11/12/91	Sb, Cd, pH, As EPA 5030/8010 EPA 5030/8020 EPA 8040
1112466	Soil, R-11-6.0-6.5	11/13/91	Sb, Cd, pH, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1112467	Soil, R-12-9.0-9.5	11/13/91	Sb, Cd, pH, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1112468	Soil, R-12-12.0-12.5	11/13/91	Sb, Cd, pH, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1112469	Soil, R-11-15.0-15.5	11/13/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

2403

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-15.0-15.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2465	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	100	N.D.
Bromoform	200	N.D.
Bromomethane	200	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	200	N.D.
2-Chloroethylvinyl ether	200	N.D.
Chloroform	100	N.D.
Chloromethane	200	N.D.
Dibromochloromethane	100	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	200	N.D.
trans-1,3-Dichloropropene	200	N.D.
Methylene chloride	400	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	200	N.D.
Vinyl chloride	200	N.D.
Freon 113	**100**	**260**
1,2,4-Trichlorobenzene	**100**	**100**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1112465.BEE <1>

SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-11-6.0-6.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2466	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**7.6**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
Freon 113	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660		Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-12-9.0-9.5		Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2467		Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**23**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
Freon 113	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.

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

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P.O. Box 3965	Sample Descript:	Soil, R-12-12.0-12.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2468	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	500	N.D.
Bromoform	1,000	N.D.
Bromomethane	1,000	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	500	N.D.
Chloroethane	1,000	N.D.
2-Chloroethylvinyl ether	1,000	N.D.
Chloroform	500	N.D.
Chloromethane	1,000	N.D.
Dibromochloromethane	500	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,1-Dichloroethane	500	N.D.
1,2-Dichloroethane	500	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	500	N.D.
trans-1,2-Dichloroethene	500	N.D.
1,2-Dichloropropane	500	N.D.
cis-1,3-Dichloropropene	1,000	N.D.
trans-1,3-Dichloropropene	1,000	N.D.
Methylene chloride	2,000	N.D.
1,1,2,2-Tetrachloroethane	500	N.D.
Tetrachloroethene	500	N.D.
1,1,1-Trichloroethane	500	N.D.
1,1,2-Trichloroethane	500	N.D.
Trichloroethene	500	N.D.
Trichlorofluoromethane	1,000	N.D.
Vinyl chloride	1,000	N.D.
Freon 113	500	N.D.
1,2,4-Trichlorobenzene	**500**	**3,900**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-11-15.0-15.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2469	Reported:	Nov 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	20

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1112465 BEE <5>

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-15.0-15.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2465	Reported:	Nov 18, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	100	N.D.
Chlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,2-Dichlorobenzene	100	N.D.
Ethyl Benzene	100	N.D.
Toluene	100	N.D.
Xylene	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-11-6.0-6.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2466	Reported:	Nov 18, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

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

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P.O. Box 3965	Sample Descript:	Soil, R-12-9.0-9.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2467	Reported:	Nov 18, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	**5.0**	**8.4**
Toluene	5.0	N.D.
Xylene	**5.0**	**9.2**

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

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San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2468	Reported:	Nov 18, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	500	N.D.
Chlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,2-Dichlorobenzene	500	N.D.
Ethyl Benzene	500	N.D.
Toluene	500	N.D.
Xylene	500	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Maile A. Springer
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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-15.0-15.5	Received:	Nov 13, 1991
San Francisco, CA 94119			Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2465	Analyzed:	Nov 18, 1991
			Reported:	Nov 18, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**130**
Cadmium	0.50	N.D.
Lead	**5.0**	**6.3**
Arsenic	**5.0**	**14**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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San Francisco, CA 94119			Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2466	Analyzed:	Nov 18, 1991
			Reported:	Nov 18, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	160
Cadmium	0.50	0.51
Lead	5.0	8.6
Arsenic	5.0	25

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-12-9.0-9.5	Received:	Nov 13, 1991
San Francisco, CA 94119			Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2467	Analyzed:	Nov 18, 1991
			Reported:	Nov 18, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**110**
Cadmium	0.50	N.D.
Lead	5.0	N.D.
Arsenic	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-12-12.0-12.5	Received:	Nov 13, 1991
San Francisco, CA 94119			Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2468	Analyzed:	Nov 18, 1991
			Reported:	Nov 18, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**130**
Cadmium	0.50	N.D.
Lead	5.0	N.D.
Arsenic	**5.0**	**5.1**

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-15-15.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2465	Analyzed:	Nov 14, 1991
			Reported:	Nov 18, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-11-6.0-6.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2466	Analyzed:	Nov 14, 1991
			Reported:	Nov 18, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R12-9.0-9.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2467	Analyzed:	Nov 14, 1991
			Reported:	Nov 18, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	500	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	500	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R12-12.0-12.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 14, 1991
Attention: Phil Chopan	Lab Number:	111-2468	Analyzed:	Nov 14, 1991
			Reported:	Nov 18, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	500	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	500	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1112465 -69

Reported: Nov 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1,-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	A.Glover	A.Glover	A.Glover	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991
QC Sample #:	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS
Sample Conc.:	N.D.	5.0	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	48	60	43	51	54	57
Matrix Spike % Recovery:	96	110	86	102	108	114
Conc. Matrix Spike Dup.:	46	62	44	51	54	57
Matrix Spike Duplicate % Recovery:	92	114	88	102	108	114
Relative % Difference:	4.3	3.6	2.3	0.0	0.0	0.0

SEQUOIA ANALYTICAL

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Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1112465 -68

Reported: Nov 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Antimony	Lead	Arsenic
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	N.Herrera	N.Herrera	N.Herrera	N.Herrera
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Nov 18, 1991	Nov 18, 1991	Nov 18, 1991	Nov 18, 1991
QC Sample #:	110-3943	110-3943	110-3943	110-3943
Sample Conc.:	N.D.	76	N.D.	N.D.
Spike Conc. Added:	500	500	500	500
Conc. Matrix Spike:	570	650	560	540
Matrix Spike % Recovery:	114	114	112	108
Conc. Matrix Spike Dup.:	570	650	550	530
Matrix Spike Duplicate % Recovery:	114	114	110	106
Relative % Difference:	0.0	0.0	3.6	1.9

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Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1112465 -68

Reported: Nov 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-Chloro-3-Methylphenol	4-Nitro-phenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

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Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

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CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____

SAMPLER'S SIGNATURE [signature]

SITE IDENTIFICATION NEC-Mtn. View

BECHTEL SUPERVISOR Janet Argoryes

DATE 11/13/91

Change to Bechtel P.O. # 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
1/2465 R-10-15.0-15.5	Soil	11/12/91 1616	none		✓	See list below*
1/2466 R-11-6.0-6.5		11/13/91 0914			✓	See list below*
2469 R-11-15.0-15.5		11/13/91 1040			✓	TCE Only
2467 R-[illegible]9.0-9.5		11/13/91 1400			✓	See list below*
2468 R-12-12.0-12.5		11/13/91 1440			✓	See list below*
~~R-13-3.0-3.5~~		~~11/13/91 0914~~			✓	

~~#~~ - Include Lab Blank Data. 3 Day TAT Requested on all Analyses

* Analyze for 8010, 8020, 8040, 6010 (Antimony, Cadmium), 7060 (Arsenic), 7421 (Lead

- 8010 should include Freon 113 and 1,2,4 Trichlorobenzene.

- Include Data Validation package on all 8010/TCE Only ~~packages~~ Analyses

RELINQUISHED BY [signature] DATE/TIME 11/13 1843 RECEIVED BY A Negra

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: Bechtel, #17660

Enclosed are the results from 8 soil samples, 1 water samples, received at Sequoia Analytical on November 13,1991. The requested analyses are listed below:

1112456	Soil, R-13-6.0-6.5	11/13/91	EPA 5030/8010
1112457	Soil, R-13-3.0-3.5	11/13/91	EPA 5030/8010
1112458	Soil, R-14-5.5-6.0	11/13/91	EPA 5030/8010
1112459	Soil, R-14-11.5-12.0	11/13/91	EPA 5030/8010
1112460	Soil, R-15-9.0-9.5	11/13/91	EPA 5030/8010
1112461	Soil, R-15-11.5-12.0	11/13/91	EPA 5030/8010
1112462	Soil, R-16-6.0-6.5	11/13/91	EPA 5030/8010
1112463	Soil, R-16-12.0-12.5	11/13/91	EPA 5030/8010
1112464	Water, TB #5	N.A.	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-13-6.0-6.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2456	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.1

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-13-3.0-3.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2457	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	15

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1112456 BEE <2>

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-14-5.5-6.0	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2458	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Project Manager

1112456 BEE <3>

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-14-11.5-12.0	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2459	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-15-9.0-9.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2460	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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1112456.BEE <5>

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-15-11.5-12.0	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2461	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Project Manager

1112456.BEE <6>

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660		Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-16-6.0-6.5		Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2462		Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Maile A. Springer
Project Manager

1112456.BEE <7>

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-16-12.0-12.5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2463	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

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1112456.BEE <8>

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	N.A.
P.O. Box 3965	Sample Descript:	Water, TB #5	Received:	Nov 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 15, 1991
Attention: Phil Chopan	Lab Number:	111-2464	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

CHAIN OF CUSTODY RECORD

1475

BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gillis

LABORATORY PROJECT NO. SAMPLER'S SIGNATURE Robert Gillis

SITE IDENTIFICATION NFC - Mtn. View BECHTEL SUPERVISOR Janet Arapies

DATE 11/13/91

Change to Bechtel P.O. #17660-005-F039-TCE

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-13-6.0-6.5	✓ Soil	11/13/91 0932	none		✓	TCE Only 5 Day TA
R-13-3.0-3.5	✓	11/13/91 0914			✓	
R-14-5.5-6.0	✓	11/13/91 1138			✓	
R-14-11.5-12.0	✓	11/13/91 1202			✓	
R-15-9.0-9.5	✓	11/13/91 1420			✓	
R-15-11.5-12.0	✓	11/13/91 1435			✓	
R-16-6.0-6.5	✓	11/13/91 1551			✓	
R-16-12.0-12.5	✓	11/13/91 1613			✓	
TB#5	Water	11/14 —	HCl		✓	8010
- Include Lab Blank Data in report						
- Include Data Validation Package on all TCE on 1800 Analyses						

RELINQUISHED BY Robert Gillis DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY FOR LABORATORY, DATE/TIME

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: Bechtel, #17660

Enclosed are the results from 24 soil samples, 1 water samples, received at Sequoia Analytical on November 14,1991. The requested analyses are listed below:

1112768	Soil, R-1-12.0-12.5	11/6/91	EPA 5030/8010
1112769	Soil, R-2-9.0-9.5	11/7/91	EPA 5030/8010
1112770	Soil, R-2-15.0-15.5	11/7/91	EPA 5030/8010
1112771	Soil, R-3-12.0-12.5	11/7/91	EPA 5030/8010
1112772	Soil, R-3-15.0-15.5	11/7/91	EPA 5030/8010
1112773	Soil, R-5-3.0-3.5	11/9/91	EPA 5030/8010
1112774	Soil, R-6-6.0-6.5	11/11/91	EPA 5030/8010
1112775	Soil, R-7-12.0-12.5	11/11/91	EPA 5030/8010
1112776	Soil, R-10-9.0-9.5	11/12/91	EPA 5030/8010
1112777	Soil, R-10-2.5-3.0	11/12/91	EPA 5030/8010
1112778	Soil, R-11-3.0-3.5	11/13/91	EPA 5030/8010
1112779	Soil, R-5-12.0-12.5	11/19/91	EPA 5030/8010
1112780	Soil, R-11-12.0-12.5	11/13/91	EPA 5030/8010
1112781	Soil, R-12-3.0-3.5	11/13/91	EPA 5030/8010
1112782	Soil, R-12--6.0-6.5	11/14/91	EPA 5030/8010
1112783	Soil, R-17-6.0-6.5	11/14/91	EPA 5030/8010
1112784	Soil, R-17-11.5-12.0	11/14/91	EPA 5030/8010
1112785	Soil, R-18-2.5-3.0	11/14/91	EPA 5030/8010
1112787	Soil, R-19-6.0-6.5	11/14/91	EPA 5030/8010
1112788	Soil, R-19-12.0-12.5	11/14/91	EPA 5030/8010
1112789	Soil, R-20-3.0-3 5	11/14/91	EPA 5030/8010

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SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1112789	Soil, R-19-20-3.0-3.5	11/14/91	EPA 5030/8010
1112790	Soil, R-20-12.5-13.0	11/14/91	EPA 5030/8010
1112791	Soil, R-21-5.5-6.0	11/14/91	EPA 5030/8010
1112792	Soil, R-21-12.0-12.5	11/14/91	EPA 5030/8010
1112793	Water, TB #6	11/14/91	EPA 5030/8010
111-2786	Soil, R-18-9.0-9.5	11/14/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

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Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 6, 1991
P.O. Box 3965	Sample Descript:	Soil, R-1-12.0-12.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2768	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	79

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660		Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-2-9.0-9.5		Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 17, 1991
Attention: Phil Chopan	Lab Number:	111-2769		Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	9.9

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-2-15.0-15.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 17, 1991
Attention: Phil Chopan	Lab Number:	111-2770	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	19

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660		Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-3-12.0-12.5		Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2771		Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	12

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 7, 1991
P.O. Box 3965	Sample Descript:	Soil, R-3-15.0-15.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2772	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	68

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 9, 1991
P.O. Box 3965	Sample Descript:	Soil, R-5-3.0-3.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2773	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	56

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-6-6.0-6.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2774	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	290

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 11, 1991
P.O. Box 3965	Sample Descript:	Soil, R-7-12.0-12.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2775	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	220

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-9.0-9.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number:	111-2776	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	12

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Soil, R-10-2.5-3.0	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number:	111-2777	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	7.3

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660		Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-11-3.0-3.5		Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number:	111-2778		Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	20

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-5-12.0-12.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2779	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	58

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-11-12.0-12.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number:	111-2780	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	6.1

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-12-3.0-3.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2781	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	14

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 13, 1991
P.O. Box 3965	Sample Descript:	Soil, R-12-6.0-6.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number:	111-2782	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	49

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-17-6.0-6.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2783	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	9.2

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-17-11.5-12.0	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 17, 1991
Attention: Phil Chopan	Lab Number:	111-2784	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.5

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-18-2.5-3.0	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 17, 1991
Attention: Phil Chopan	Lab Number:	111-2785	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	6.5

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-18-9.0-9.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 17, 1991
Attention: Phil Chopan	Lab Number:	111-2786	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-19-6.0-6.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 17, 1991
Attention: Phil Chopan	Lab Number:	111-2787	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	11

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-19-12.0-12.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2788	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	7.0

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-20-3.0-3.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number.	111-2789	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	58

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-20-12.5-13.0	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2790	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	8.7

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660		Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-21-5.5-6.0		Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 16, 1991
Attention: Phil Chopan	Lab Number:	111-2791		Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Soil, R-21-12.0-12.5	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2792	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	23

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 14, 1991
P.O. Box 3965	Sample Descript:	Water, TB #6	Received:	Nov 14, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2793	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Trichloroethene	0.50	N.D.

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

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680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 1112776-80, 82

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	S.Le	S.Le	S Le
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 16, 1991	Nov 16, 1991	Nov 16, 1991
QC Sample #:	BLK111691 MS/MSD	BLK111691 MS/MSD	BLK111691 MS/MSD
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10
Conc. Matrix Spike:	8.6	11	11
Matrix Spike % Recovery:	86	110	110
Conc. Matrix Spike Dup.:	9.6	12	11
Matrix Spike Duplicate % Recovery:	96	120	110
Relative % Difference:	11	8.7	0.0

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% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 1112769-70, 84-87, 89

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	S.Le	S.Le	S.Le
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 17, 1991	Nov 17, 1991	Nov 17, 1991
QC Sample #:	BLK111791 MS/MSD	BLK111791 MS/MSD	BLK111791 MS/MSD
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10
Conc. Matrix Spike:	10	10	10
Matrix Spike % Recovery:	100	100	100
Conc. Matrix Spike Dup.:	11	12	10
Matrix Spike Duplicate % Recovery:	110	120	100
Relative % Difference:	9.5	9.1	0.0

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% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 1112768 ,71-74, 83

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	M.Nguyen	M.Nguyen	M Nguyen
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 18, 1991	Nov 18, 1991	Nov 18, 1991
QC Sample #:	BLK111891 MS/MSD	BLK111891 MS/MSD	BLK111891 MS/MSD
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10
Conc. Matrix Spike:	11	9.9	11
Matrix Spike % Recovery:	110	99	110
Conc. Matrix Spike Dup.:	11	9.7	10
Matrix Spike Duplicate % Recovery:	110	97	100
Relative % Difference:	0.0	2.0	9.5

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Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference	Conc of M.S. - Conc. of M.S.D / (Conc of M.S. + Conc of M.S.D) / 2	x 100

CHAIN OF CUSTODY RECORD

COPY

page 1 of 3 472

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE [signature]

SITE IDENTIFICATION NEC-Mtn View.

BECHTEL SUPERVISOR Janet Argyres

DATE 11/14/91

Charge to Bechtel Invoice # 17660-005-F037-TSC.

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS	
R-1-12.0-12.5	Soil	11/6/91 1526	none.		✓	1112768 TCE Only	3 Day T
R-2-9.0-9.5	↓	11/7/91 0940	↓	↓	↓	↓	69
R-2-15.0-15.5	↓	11/7/91 1034	↓	↓	↓	↓	70
R-3-12.0-12.5	↓	11/7/91 1342	↓	↓	↓	↓	71
R-3-15.0-15.5	↓	11/7/91 1403	↓	↓	↓	↓	72
R-5-3.0-3.5	↓	11/9/91 1138	↓	↓	↓	↓	73
R-5-6.0-6.5	↓	11/11/91 0818	↓	↓	↓	↓	74
R-7-12.0-12.5	↓	11/11/91 1321	↓	↓	↓	↓	75
R-10-9.0-9.5	↓	11/12/91 1530	↓	↓	↓	↓	76
R-10-25.0	↓	11/12/91 1444	↓	↓	↓	↓	77

see page 3 for instructions

RELINQUISHED BY [signature] DATE/TIME 11/14/91 19:00 RECEIVED BY A. Nogna.

RELINQUISHED BY ____ DATE/TIME ____ RECEIVED BY ____

RELINQUISHED BY ____ DATE/TIME ____ RECEIVED BY ____

RECEIVED BY ____ FOR LABORATORY, DATE/TIME ____

AUTHORIZED FOR DISPOSAL BY ____ TYPE OF DISPOSAL ____

RELINQUISHED TO ____ FOR DISPOSAL, DATE/TIME ____

SEQUOIA ANALYTICAL
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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: Bechtel, #17660

Enclosed are the results from 11 soil samples, 1 water samples, received at Sequoia Analytical on November 18,1991. The requested analyses are listed below:

1112945	Soil, R-22-6.0-6.5	11/15/91	EPA 5030/8010
1112946	Soil, R-22-12.0-12.5	11/15/91	EPA 5030/8010
1112947	Soil, R-23-9.0-9.5	11/15/91	EPA 5030/8010
1112948	Soil, R-24-6.0-6.5	11/15/91	EPA 5030/8010
1112949	Soil, R-24-12.0-12.5	11/15/91	EPA 5030/8010
1112950	Soil, R-25-3.0-3.5	11/15/91	EPA 5030/8010
1112951	Soil, R-25-12.0-12.5	11/15/91	EPA 5030/8010
1112952	Soil, R-26-3.0-3.5	11/15/91	EPA 5030/8010
1112953	Soil, R-26-12.0-12.5	11/15/91	EPA 5030/8010
1112954	Soil, R-23-6.0-6.5	11/15/91	Sb, Cd, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1112955	Water, TB #7	N.A.	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-22-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2945	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	9.0

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1112945 BEE <1>

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-22-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2946	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	7.9

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

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Maile A. Springer
Project Manager

1112945.BEE <2>

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-23-9.0-9.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2947	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.7

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

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Maile A. Springer
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1112945 BEE <3>

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-24-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2948	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	6.1

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

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Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-24-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2949	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	18

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-25-3.0-3.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2950	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	21

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

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Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-25-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2951	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.1

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

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Project Manager

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SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-26-3.0-3.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2952	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	21

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

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Maile A. Springer
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1112945.BEE <8>

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-26-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2953	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	8.1

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

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Maile A. Springer
Project Manager

1112945 BEE <9>

SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-23-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2954	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	8.9
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
Freon 113	5.0	N.D.

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

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1112945 BEE <10>

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	N.A.
P.O. Box 3965	Sample Descript:	Water. TB #7	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2955	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

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

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-23-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2954	Reported:	Nov 20, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	7.2
Xylene	5.0	N.D.

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

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Maile A. Springer
Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 1112954 - 5

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Trichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Glover	A.Glover	A.Glover	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991
QC Sample #:	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS
Sample Conc.:	N.D.	5	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	48	60	43	51	54	57
Matrix Spike % Recovery:	96	110	86	102	108	114
Conc. Matrix Spike Dup.:	46	62	44	51	54	57
Matrix Spike Duplicate % Recovery:	92	114	88	102	108	114
Relative % Difference:	4.3	3.6	2.3	0.0	0.0	0.0

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference	Conc of M.S. - Conc. of M.S.D. / (Conc. of M.S + Conc. of M.S.D.) / 2	x 100

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-23-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-2954	Analyzed:	Nov 20, 1991
			Reported:	Nov 20, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 111-2954

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-Chloro-3-Methylphenol	4-Nitrophenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

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Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 15, 1991
P.O. Box 3965	Sample Descript:	Soil, R-23-6.0-6.5	Received:	Nov 15, 1991
San Francisco, CA 94119			Extracted:	Nov 18, 1991
Attention: Phil Chopan	Lab Number:	111-2954	Analyzed:	Nov 18, 1991
			Reported:	Nov 20, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	120
Cadmium	0.50	N.D.
Arsenic	5.0	8.2
Lead	5.0	6.8

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

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Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 111-2954

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Cadmium	Lead	Arsenic
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Nov 18, 1991	Nov 18, 1991	Nov 18, 1991	Nov 18, 1991
QC Sample #:	111-2846	111-2846	111-2846	111-2846
Sample Conc.:	44	N.D.	N.D.	N.D.
Spike Conc. Added:	100	100	100	100
Conc. Matrix Spike:	140	100	110	100
Matrix Spike % Recovery:	96	100	110	100
Conc. Matrix Spike Dup.:	140	100	110	100
Matrix Spike Duplicate % Recovery:	96	100	110	100
Relative % Difference:	0.0	0.0	0.0	0.0

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Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc of M.S. + Conc. of M.S.D.) / 2}} \times 100$

CHAIN OF CUSTODY RECORD

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BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibb

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibb

SITE IDENTIFICATION NEC - Min. View

BECHTEL SUPERVISOR Janet Arn

DATE 11/15/91

Charge to Bechtel P.O.# 17660-005-F032-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-22-6.0-6.5	Soil	11/15/91 0801	none	1144	✓	TCE Only 2D
R-22-12.0-12.5		11/15/91 0823		"		
R-23-9.0-9.5 ~~R-23-6.0-6.5~~		11/15/91 0957		"		
R-24-6.0-6.5		11/15/91 1123		"		
R-24-12.0-12.5		11/15/91 1142		"		
R-25-3.0-3.5 ~~R-25-2.5-3.0~~		11/15/91 1310		"		
R-25-12.0-12.5		11/15/91 1342		"		
TB#7	Water	—	HCl	"	✓	EPA 8010
See next page for Instructions						

RELINQUISHED BY Robert Gibb DATE/TIME 11/15/91 1512 RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY FOR LABORATORY, DATE/TIME

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME

Page 2 of 2
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BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC Mtn. View BECHTEL SUPERVISOR Janet Argyres

DATE 11/15/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-26-30-35	Soil	11/15/91 1439	none	1112952	✓	TCE Only 2 Day T
R-26-120-12.5	↓	11/15/91 1518	↓	53	↓	↓
R-23-60-65	↓	11/15/91 0947	↓	54	↓	See Analyses list below
* Analyze for 8		including 8010, 8020, 8040, 6010 (Antimony, Cadmium), 7060 (Arsenic), 7421 (Lead)				113 and 1,2,4-Trichlorobenzene
- include Data Validation Package on all TCE Only/801 Analyses.						
- include Lab Blank data in report						
- 2 Day TAT on all Analyses.						

RELINQUISHED BY Robert Gibbs DATE/TIME 11/15/91 1817 RECEIVED BY L. Moreno

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID	#17660	Sampled	Nov 22, 1991
P O. Box 3965	Sample Descript	Soil, R-35-15 0-15 5	Received	Nov 22, 1991
San Francisco, CA 94119	Analysis Method	EPA 5030/8010	Analyzed:	Nov 25, 1991
Attention: Phil Chopan	Lab Number	111-4372	Reported	Nov 27, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	560

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

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Maile A Springer
Project Manager

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Bechtel Environmental	Client Project ID	#17660	Sampled:	Nov 22, 1991
P.O. Box 3965	Sample Descript	Soil, R-36-9 0-9 5	Received.	Nov 22, 1991
San Francisco, CA 94119	Analysis Method	EPA 5030/8010	Analyzed	Nov 25, 1991
Attention: Phil Chopan	Lab Number	111-4373	Reported	Nov 27, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	**5.0**	**37**

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 22, 1991
P.O. Box 3965	Sample Descript:	Soil, R-36-12 0-12 5	Received:	Nov 22, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 25, 1991
Attention: Phil Chopan	Lab Number	111-4374	Reported:	Nov 27, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	85

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 22, 1991
P.O. Box 3965	Sample Descript	Water, TB #12	Received:	Nov 22, 1991
San Francisco, CA 94119	Analysis Method.	EPA 5030/8010	Analyzed	Nov 25, 1991
Attention: Phil Chopan	Lab Number·	111-4375	Reported	Nov 27, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Trichloroethene.	0 50	N.D

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

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Bechtel Environmental
P O. Box 3965
San Francisco, CA 94119
Attention. Phil Chopan

Client Project ID· #17660

QC Sample Group· 1114370 - 75

Reported· Nov 27, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1 1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method·	EPA 8010	EPA 8010	EPA 8010
Analyst·	A Glover	A Glover	A Glover
Reporting Units·	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 25 1991	Nov 25 1991	Nov 25 1991
QC Sample #.	BLK112591	BLK112591	BLK112591
Sample Conc.:	N D	N D	N.D
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	4 2	4 6	4 0
Matrix Spike % Recovery:	84	92	80
Conc. Matrix Spike Dup.:	4.3	5 0	4 1
Matrix Spike Duplicate % Recovery:	86	100	82
Relative % Difference:	2 4	8 3	2 5

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Project Manager

% Recovery	$\frac{\text{Conc of M S - Conc of Sample}}{\text{Spike Conc Added}}$	x 100
Relative % Difference	$\frac{\text{Conc of M S - Conc of M S D}}{\text{(Conc of M S + Conc of M S D) / 2}}$	x 100

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BECHTEL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC-Mtn. View BECHTEL SUPERVISOR Janet Agyres

DATE 11/22/91

Charge to Bechtel P.O.# 17660-005-F037-TSC.

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
114370 R-35-8.5-9.0	Soil	11/22/91 0858	None		✓	TCE Only 2 Day TA
114371 R-35-12.0-12.5	↓	11/22/91 0911	↓		↓	↓
114372 R-35-15.0-15.5	↓	11/22/91 0929	↓		↓	↓
14373 R-36-9.0-9.5	↓	11/22/91 1030	↓		↓	↓
~~R-36-6.0-6.5~~	↓		↓		↓	↓
114374 R-36-12.0-12.5	↓	11/22/91 1044	↓		↓	↓
14375 TB-12	Water	–	HCl		↓	↓
–	Include	Lab Blank Data With Report				
–	Include	Data Validation Package on all			TCE/8010 Analyses.	

RELINQUISHED BY Robert Gibbs DATE/TIME 11/22/91 12:10 RECEIVED BY [illegible]

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: Bechtel, #17660

Enclosed are the results from 10 soil samples, 1 water samples, received at Sequoia Analytical on November 20,1991. The requested analyses are listed below:

1113479	Soil, R-27-6.0-6.5	11/18/91	EPA 5030/8010
1113480	Soil, R-27-11.5-12.0	11/18/91	EPA 5030/8010
1113481	Soil, R-28-6.0-6.5	11/18/91	EPA 5030/8010
1113482	Soil, R-28-12.0-12.5	11/18/91	EPA 5030/8010
1113483	Soil, R-29-5.5-6.0	11/18/91	EPA 5030/8010
1113484	Soil, R-30-6.0-6.5	11/18/91	EPA 5030/8010
1113485	Soil, R-30-12.0-12.5	11/18/91	EPA 5030/8010
1113486	Soil, R-31-8.5-9.0	11/18/91	EPA 5030/8010
1113487	Soil, R-31-12.0-12.5	11/18/91	EPA 5030/8010
1113488	Soil, R-29-8.5-9.0	11/18/91	Sb,Cd,As,pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1113489	Water, TB #8	N.A.	EPA 5030/8010

Please contact me if you have any questions In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-27-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3479	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.1

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

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Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, #17660		Sampled:	Nov 18, 19
P.O. Box 3965	Sample Descript:	Soil, R-27-11.5-12.0		Received:	Nov 18, 19
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Nov 19, 19
Attention: Phil Chopan	Lab Number:	111-3480		Amended:	Jan 28, 19

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.7

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-28-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3481	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	11

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

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Project Manager

1113479 BEE <3>

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-28-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3482	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	6.0

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

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Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-29-5.5-6.0	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3483	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	25

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

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Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-30-6.0-6.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3484	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	52

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

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Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-30-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3485	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	45

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

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Project Manager

1113479 BEE <7>

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-31-8.5-9.0	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3486	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	7.7

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

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Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-31-12.0-12.5	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3487	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	7.3

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

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Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-29-8.5-9.0	Received:	Nov 18, 1991
San Francisco, CA 94119			Extracted:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3488	Analyzed:	Nov 20, 1991
			Reported:	Nov 20, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	98
Cadmium	0.50	0.52
Arsenic	5.0	N.D.
Lead	5.0	N.D.

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

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Maile A. Springer
Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 1113479- 87

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	S Lee	S.Lee	S Lee
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 19, 1991	Nov 19, 1991	Nov 19, 1991
QC Sample #:	BLK111991 MS/MSD	BLK111991 MS/MSD	BLK111991 MS/MSD
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10
Conc. Matrix Spike:	11	12	11
Matrix Spike % Recovery:	110	120	110
Conc. Matrix Spike Dup.:	16	11	10
Matrix Spike Duplicate % Recovery:	160	110	100
Relative % Difference:	37	8.7	9.5

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery.	Conc. of M.S - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference	Conc of M.S. - Conc. of M S.D. / (Conc of M.S. + Conc. of M.S.D.) / 2	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 111-3488

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Cadmium	Lead	Arsenic
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Nov 20, 1991	Nov 20, 1991	Nov 20, 1991	Nov 20, 1991
QC Sample #:	111-3488	111-3488	111-3488	111-3488
Sample Conc.:	98	0.52	N.D.	N.D.
Spike Conc. Added:	100	100	100	100
Conc. Matrix Spike:	200	110	100	100
Matrix Spike % Recovery:	102	109	100	100
Conc. Matrix Spike Dup.:	200	110	110	110
Matrix Spike Duplicate % Recovery:	102	109	110	110
Relative % Difference:	0.0	0.0	9.5	9.5

SEQUOIA ANALYTICAL

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Project Manager

% Recovery:	Conc of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-29-8.5-9.0	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3488	Analyzed:	Nov 20, 1991
			Reported:	Nov 20, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

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Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 111-3488

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-Chloro-3-Methylphenol	4-Nitro phenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

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% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Soil, R-29-8.5-9.0	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3488	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	**10**	**18**
Freon 113	**5.0**	**7.3**
1,2,4-Trichlorobenzene	**5.0**	**24**

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

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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	N.A.
P.O. Box 3965	Sample Descript:	Water, TB #8	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 19, 1991
Attention: Phil Chopan	Lab Number:	111-3489	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

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

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Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, #17660

QC Sample Group: 1113488 - 89

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1 Dichloroethene	Trichloroethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Glover	A. Glover	A. Glover	A. Glover	A. Glover	A. Glover
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991
QC Sample #:	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS
Sample Conc.:	N.D.	5.0	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	48	60	43	51	54	57
Matrix Spike % Recovery:	96	110	86	102	108	114
Conc. Matrix Spike Dup.:	46	62	44	51	54	57
Matrix Spike Duplicate % Recovery:	92	114	88	102	108	114
Relative % Difference:	4.3	3.6	2.3	0.0	0.0	0.0

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% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	Bechtel, #17660	Sampled:	Nov 18, 1991
P.O. Box 3965	Sample Descript:	Water, R-29-8.5-9.0	Received:	Nov 18, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3488	Reported:	Nov 21, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

CHAIN OF CUSTODY RECORD

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COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View

BECHTEL SUPERVISOR Janet Ayres

DATE 11/18/91

Charge to Bechtel P.O. # 17660-005-F037-TSC.

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-27-6.0-6.5	Soil	11/18/91 0839	none	111479	✓	TCE Only 2 Day TA
R-27-11.5-12.0		11/18/91 0859		80		
R-28-6.0-6.5		11/18/91 1039		81		
R-28-12.0-12.3		11/18/91 1100		82		
R-29-5.5-6.0		11/18/91 1258		83		
R-30-6.0-6.5		11/18/91 1423		84		
R-30-12.0-12.5		11/18/91 1445		85		
R-31-8.5-9.0		11/18/91 1602		86		
R-31-12.0-12.5	↓	11/18/91 1612	↓	87	↓	↓
See ~~Attached~~ 2nd page for instructions						

RELINQUISHED BY Robert Gibbs DATE/TIME 11/18/91 1835 RECEIVED BY A-Nagra

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

page 2 of 2

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CHAIN OF CUSTODY RECORD COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn View

BECHTEL SUPERVISOR Janet Arguero

DATE 11/18/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-29-8.5-9.0	Soil	11/18/91 1305	none.	1113488	✓	* See Analyses list below 2D
TB 2-8	Water	-	HCl	↓ 89	✓	8010 2D
* Analyze for 8010 (plus From 113 and 1,2,4-Trichlorobenzene), 8020, 8040, 6010 (Antimony, Cadmium), 7060 (Arsenic) and 7421 (Lead).						
-	Include Lab Blank Data with Report.					
-	Include Data Validation Package on all 8010/TCE Analyses					

RELINQUISHED BY Robert Gibbs DATE/TIME 11/18/91 1835 RECEIVED BY A. Nagra.

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

REPORT #13

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: Bechtel, 17660

Enclosed are the results from 6 soil samples received at Sequoia Analytical on November 19,1991. The requested analyses are listed below:

1113690	Soil, R-32-3.0-3.5	11/19/91	EPA 5030/8010
1113691	Soil, R-32-8.5-9.0	11/19/91	EPA 5030/8010
1113692	Soil, R-33-12.0-12.5	11/19/91	EPA 5030/8010
1113693	Soil, R-33-15.5-16.0	11/19/91	EPA 5030/8010
1113694	Soil, R-34-9.0-9.5	11/19/91	EPA 5030/8010
1113695	Soil, R-34-6.0-6.5	11/19/91	Sb, Cd, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-32-3.0-3.5	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3690	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	7.6

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

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Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-32-8.5-9.0	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3691	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	8.4

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

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Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-33-12.0-12.5	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3692	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	24

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-33-15.5-16.0	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3693	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	100

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

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Maile A. Springer
Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-34-9.0-9.5	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3694	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.8

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

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Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-34-6.0-6.5	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3695	Reported:	Nov 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Methylene chloride	200	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**120**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.
1,2,4 Trichlorobenzene	**50**	**180**
Freon 113	**50**	**1,500**

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-34-6.0-6.5	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3695	Reported:	Nov 20, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	50	N.D.
Chlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,2-Dichlorobenzene	50	N.D.
Ethyl Benzene	50	N.D.
Toluene	**50**	**82**
Xylene	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-34-6.0-6.5	Received:	Nov 19, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3695	Analyzed:	Nov 20, 1991
			Reported:	Nov 20, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	5,000	N.D.
2-Chlorophenol	5,000	N.D.
2,4-Dichlorophenol	5,000	N.D.
2,4-Dimethylphenol	5,000	N.D.
2,4-Dinitrophenol	25,000	N.D.
2-Methyl-4,6-dinitrophenol	25,000	N.D.
2-Nitrophenol	5,000	N.D.
4-Nitrophenol	5,000	N.D.
Pentachlorophenol	25,000	N.D.
Phenol	5,000	N.D.
2,4,6-Trichlorophenol	5,000	N.D.

Analytes reported as N.D were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, 17660

QC Sample Group: 1113690-95

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1 Dichloroethene	Trichloroethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Glover	A. Glover	A. Glover	A. Glover	A. Glover	A. Glover
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991	Nov 13, 1991
QC Sample #:	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS	1111195MS
Sample Conc.:	N.D.	5.0	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	48	60	43	51	54	57
Matrix Spike % Recovery:	96	110	86	102	108	114
Conc. Matrix Spike Dup.:	46	62	44	51	54	57
Matrix Spike Duplicate % Recovery:	92	114	88	102	108	114
Relative % Difference:	4.3	3.6	2.3	0.0	0.0	0.0

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, 17660

QC Sample Group: 111-3695

Reported: Nov 20, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-Chloro-3-methyl-phenol	4-Nitrophenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L. Haar	L. Haar	L. Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Nov 12, 1991	Nov 12, 1991	Nov 12, 1991
QC Sample #:	BLK110891	BLK110891	BLK110891
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	26	20	27
Matrix Spike % Recovery:	52	40	54
Conc. Matrix Spike Dup.:	36	26	28
Matrix Spike Duplicate % Recovery:	72	52	56
Relative % Difference:	32	26	3.6

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	Bechtel, 17660	Sampled:	Nov 19, 1991
P.O. Box 3965	Sample Descript:	Soil, R-34-6.0-6.5	Received:	Nov 19, 1991
San Francisco, CA 94119			Extracted:	Nov 20, 1991
Attention: Phil Chopan	Lab Number:	111-3695	Analyzed:	Nov 20, 1991
			Reported:	Nov 21, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	150
Cadmium	0.50	N.D.
Arsenic	5.0	N.D.
Lead	5.0	N.D.

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

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL
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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: Bechtel, 17660

QC Sample Group: 111-3695

Reported: Nov 21, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Lead	Arsenic	Antimony	Cadmium
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Nov 20, 1991	Nov 20, 1991	Nov 20, 1991	Nov 20, 1991
QC Sample #:	111-1650	111-1650	111-1650	111-1650
Sample Conc.:	N.D.	N.D.	66	N.D.
Spike Conc. Added:	100	100	100	100
Conc. Matrix Spike:	110	100	170	100
Matrix Spike % Recovery:	110	100	104	100
Conc. Matrix Spike Dup.:	110	110	170	100
Matrix Spike Duplicate % Recovery:	110	110	104	100
Relative % Difference:	0.0	9.5	0.0	0.0

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc of M.S.D.) / 2}} \times 100$

page 1 of 1

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CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC-Mtn. View

BECHTEL SUPERVISOR Janet Argyres

DATE 11/19/91

Bill to Bechtel P.O.# 17660-005-F037-TSC.

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
R-32-30-3.5	Soil	11/19/91 0751	None		✓	1113690 TCE only 1 Day TA
R-32-8.5-9.0 ~~R-32-9.0-9.5~~		11/19/91 0813				91
R-33-12.0-12.5 ~~R-33-6.0-6.5~~		11/19/91 1004				92
R-33-15.5-16.0		11/19/91 1014				93
R-34-9.0-9.5		11/19/91 1118				94
R-34-6.0-6.5		11/19/91 1110				* 95 See List Below

*Analyze for 8010 (plus Freon 113 and 1,2,4-Trichlorobenzene), 8020, 8040, 6010 (Antimony and Cadmium), 7060 (Arsenic), 7421 (Lead).

- Include lab blank data with report; Include Data Validation Package on all TCE/ Analyses

RELINQUISHED BY Robert Gibbs DATE/TIME 11/19/91 1840 RECEIVED BY K. Walsh

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 6 soil samples received at Sequoia Analytical on November 22,1991. The requested analyses are listed below:

1114370	Soil, R-35-8 5-9.0	11/22/91	EPA 5030/8010
1114371	Soil, R-35-12 0-12 5	11/22/91	EPA 5030/8010
1114372	Soil, R-35-15.0-15.5	11/22/91	EPA 5030/8010
1114373	Soil, R-36-9 0-9.5	11/22/91	EPA 5030/8010
1114374	Soil, R-36-12.0-12.5	11/22/91	EPA 5030/8010
1114375	Water, TB #12	11/22/91	EPA 5030/8010

Please contact me if you have any questions In the meantime, thank you for the opportunity to work with you on this project

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Nov 22, 1991
P O Box 3965	Sample Descript	Soil, R-35-8 5-9 0	Received.	Nov 22, 1991
San Francisco, CA 94119	Analysis Method	EPA 5030/8010	Analyzed	Nov 25, 1991
Attention: Phil Chopan	Lab Number	111-4370	Reported	Nov 27, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	**5.0**	**510**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID	#17660	Sampled:	Nov 22, 1991
P.O Box 3965	Sample Descript	Soil, R-35-12 0-12 5	Received	Nov 22, 1991
San Francisco, CA 94119	Analysis Method	EPA 5030/8010	Analyzed	Nov 25, 1991
Attention: Phil Chopan	Lab Number.	111-4371	Reported:	Nov 27, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	190

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

APPENDIX D

LABORATORY REPORTS FOR AIR MONITORING SAMPLES

REPORT NO. 1: BACKGROUND SAMPLING ON NOVEMBER 12, 1991

REPORT NO. 2: PERIMETER SAMPLING ON DECEMBER 6, 1991

REPORT NO. 3: PERIMETER SAMPLING ON DECEMBER 10, 1991

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Janet Argyres

Project: #17660-005

Enclosed are the results from 5 special matrix samples received at Sequoia Analytical on November 12,1991. The requested analyses are listed below:

1112232	Pump 3351	11/12/91	TO-2
1112233	Pump 3822	11/12/91	TO-2
1112234	Pump 9606	11/12/91	TO-2
1112235	Pump 3007	11/12/91	TO-2
1112236	Pump 8090	11/12/91	TO-2

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Pump 3351	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Janet Argyres	Lab Number:	111-2232	Reported:	Nov 20, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	10	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**0.024**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**0.038**
Toluene	**10**	**0.077**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Pump 3822	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Janet Argyres	Lab Number:	111-2233	Reported:	Nov 20, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	10	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**0.052**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**0.045**
Toluene	**10**	**0.11**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Pump 9606	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Janet Argyres	Lab Number:	111-2234	Reported:	Nov 20, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	10	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**0.18**
Carbon tetrachloride	20	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**0.15**
Toluene	**10**	**0.29**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

1112232.BEE <3>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Pump 3007	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Janet Argyres	Lab Number:	111-2235	Reported:	Nov 20, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	50	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**0.16**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**0.16**
Toluene	**10**	**0.37**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
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Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Nov 12, 1991
P.O. Box 3965	Sample Descript:	Pump 8090	Received:	Nov 12, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Janet Argyres	Lab Number:	111-2236	Reported:	Nov 20, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	50	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**0.15**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**0.083**
Toluene	**10**	**0.19**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

1326

CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660-005 SAMPLER'S NAME Rich Morales

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Richard Morales

SITE IDENTIFICATION NEC - Mt View BECHTEL SUPERVISOR Janet Argyres

DATE 11/12/91

*1 week TAT ~~72L/hr~~ 72L/hr

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS	
Pump # 3351	Air 111 2232	9:00-5:00	None	No	575L ✓	Analyze using EPA TO-2	Total Minutes Sampled 482 min
Pump # 3822	111 2233				550L ✓		483 min
Pump # 9606	111 2234				577L ✓		481 min
Pump # 3007	111 2235				550L ✓		483 min
Pump # 8090	111 2236				577L ✓		481 min
						Do Not	
TRAVEL BLANK	111 2237	—	None	Yes		Analyze pending Bechtel instructions.	

RELINQUISHED BY [signature] DATE/TIME 11/12/91 1816 RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY Sophia Patiga FOR LABORATORY, DATE/TIME 11-12 1816

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Pump 3351	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1185	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	10	0.71
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	10	N.D.
Toluene	10	2.0
Trichloroethene	10	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Pump 9606	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1186	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**4.0**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**4.2**
Toluene	**10**	**11**
Trichloroethene	**10**	**0.82**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Pump 3822	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1187	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**5.1**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**10**
Toluene	**10**	**23**
Trichloroethene	10	N.D.

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

SEQUOIA ANALYTICAL

Malle A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Pump 3007	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1188	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**2.8**
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**7.3**
Toluene	**10**	**16**
Trichloroethene	**10**	**0.60**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Pump 8090	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1189	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	10	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	10	4.9
Carbon tetrachloride	10	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	10	16
Toluene	10	33
Trichloroethene	10	0.77

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

COPY

CHAIN OF CUSTODY RECORD

1458

BECHTEL PROJECT NO. 17660-005

SAMPLER'S NAME Rich Morales

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Rich Morales

SITE IDENTIFICATION NEC - Mt. View

BECHTEL SUPERVISOR Janet Argyres

DATE 12/6/91

Two day TAT, Please report results by 12/9/91 AM.

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
Pump 3351 121185	Air/charcoal tube	8:10 - 16:12	None	No	TO-2 + TCE	Run time = 482 min flow rate = 56.7 cc/min
Pump 9606 121186		8:18 - 16:16				Run time = 478 min Flow rate = 47.7 cc/min
Pump 3822 121187		8:14 - 16.14				Run time = 480 min flow rate = 43.2 cc/min
[illegible]P 3007 121188		8:21 - 16.18				Run time = 477 min flow rate = 43.4 cc/min
Pump 8090 121189		8:24 - 16:20				Run time = 476 min flow rate = 48.0 cc/min
Travel Blank 121190		—	No	Yes	No	Analyze per Bechtel Notification

RELINQUISHED BY Rich Morales DATE/TIME 12/6/91 16:50 RECEIVED BY K. Lockhart

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY M Nguyen FOR LABORATORY, DATE/TIME 12/6 4:50P

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 10, 1991
P.O. Box 3965	Sample Descript:	Pump 8090	Received:	Dec 10, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1485	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**3.0**
Carbon tetrachloride	20	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**3.6**
Toluene	**10**	**8.4**
Trichloroethene	**10**	**0.51**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 10, 1991
P.O. Box 3965	Sample Descript:	Pump 3822	Received:	Dec 10, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1486	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**9.6**
Carbon tetrachloride	20	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**3.4**
Toluene	**10**	**7.0**
Trichloroethene	10	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable

SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 10, 1991
P.O. Box 3965	Sample Descript:	Pump 9606	Received:	Dec 10, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1487	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	100	N.D.
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**13**
Carbon tetrachloride	20	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**7.1**
Toluene	**10**	**35**
Trichloroethene	**10**	**0.68**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note.
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 10, 1991
P.O. Box 3965	Sample Descript:	Pump 3007	Received:	Dec 10, 1991
San Francisco, CA 94119	Analysis Method:	TO-2		
Attention: Phil Chopan	Lab Number:	112-1488	Reported:	Dec 12, 1991

TO-2

Analyte	Detection Limit* ng	Sample Results** ng/L of sample
Vinyl chloride	10	N.D.
Acrylonitrile	25	N.D.
1,1-Dichloroethene	10	N.D.
Methylene chloride	**100**	**19**
Allyl chloride	50	N.D.
Chloroform	10	N.D.
1,1,1-Trichloroethane	**10**	**3.3**
Carbon tetrachloride	20	N.D.
1,2-Dichloroethane	10	N.D.
Benzene	**10**	**2.6**
Toluene	**10**	**7.5**
Trichloroethene	10	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note:
*Detection limit is based on total ng on trap
**Results expressed in ng/L for all samples except trip blanks, where flow data is not applicable.

The above sample was not shipped in a container.

COPY

CHAIN OF CUSTODY RECORD

1503

BECHTEL PROJECT NO. 17660-005

SAMPLER'S NAME Rich Morales

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Richard Morales

SITE IDENTIFICATION NEC Mt. View

BECHTEL SUPERVISOR Janet Argyres

DATE 12/10/91

48 Hour turnaround time

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
8090	Air	7 42 - 15:33	1121485	No	Yes	Flow rate = 56.1 cc/min Total pump time = 471 minut Analyze by EPA TO-2 + TCE
3822	Air	7:45 - 15:35	1121486	No	Yes	Flow rate = 41.6 cc/min. Total Pump Time - 470 minutes Analyze by EPA TO-2 + TCE
9606	Air	7:47 - 15.37	1121487	No	Yes	Flow rate = 48 2 cc/min Total Pump Time = 470 minute Analyze by EPA TO-2 + TCE
3007	Air	7 49 - 15:39	1121488	No	Yes	Flow rate = 47.5 cc/min Total Pump Time = 470 minutes Analyze by EPA TO-2 and TCE

RELINQUISHED BY Richard Morales DATE/TIME 12/10/91 1610 RECEIVED BY M Nguyen

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY FOR LABORATORY, DATE/TIME

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME

APPENDIX E - INDEX TO LABORATORY REPORTS

	LABORATORY REPORT NUMBER			
Lab Sample ID	For Method 8010	For Method 8020	For Method 8040	For Metals
Stockpile Soil Samples				
CSB3-1	1	NA	NA	NA
CSB3-2	1	NA	NA	NA
CSB3-3	1	NA	NA	NA
CSB3-4	1	NA	NA	NA
CSB3-5	1	NA	NA	NA
CSB3-6	1	NA	NA	NA
CSP4-1	2	2	2	2
CSP4-2	2	NA	NA	NA
CSP4-3	2	NA	NA	NA
CSP4-4	2	NA	NA	NA
CSP4-5	2	NA	NA	NA
CSP4-6	2	NA	NA	NA
CSP5-1	5	5	5	5
CSP5-2	5	NA	NA	NA
CSP5-3	5	NA	NA	NA
CSP5-4	5	NA	NA	NA
CSP5-5	5	NA	NA	NA
CSP5-6	5	NA	NA	NA
Aeration Pad Soil Samples				
AP1-1	3	NA	NA	NA
AP1-2	3	NA	NA	NA
AP1-3	3	NA	NA	NA
AP1-4	3	NA	NA	NA
AP1-5	3	NA	NA	NA
AP1-6	3	NA	NA	NA
AP2-1	3	NA	NA	NA
AP2-2	3	NA	NA	NA
AP2-3	3	NA	NA	NA
AP2-4	3	NA	NA	NA
AP2-5	3	NA	NA	NA
AP2-6	3	3	3	3

NA = Not Analyzed

APPENDIX E - INDEX TO LABORATORY REPORTS (cont'd)

	LABORATORY REPORT NUMBER			
Lab Sample ID	For Method 8010	For Method 8020	For Method 8040	For Metals
Aeration Pad Soil Samples				
AP3-1	4	NA	NA	NA
AP3-2	4	NA	NA	NA
AP3-3	4	NA	NA	NA
AP3-4	4	NA	NA	NA
AP3-5	4	NA	NA	NA
AP3-6	4	NA	NA	NA
AP4-1	5	5	5	5
AP4-2	5	NA	NA	NA
AP4-3	5	NA	NA	NA
AP4-4	5	NA	NA	NA
AP4-5	5	NA	NA	NA
AP4-6	5	NA	NA	NA
AP5-1	5	NA	NA	NA
AP5-2	5	NA	NA	NA
AP5-3	5	NA	NA	NA
AP5-4	5	NA	NA	NA
AP5-5	5	NA	NA	NA
AP5-6	5	NA	NA	NA
Auger Soil Samples				
BA-14-14	6	NA	NA	NA
BA-16-14	7	NA	NA	NA

NA = Not Analyzed

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 6 soil samples, 1 water samples, 0 other samples received at Sequoia Analytical on December 5,1991. The requested analyses are listed below:

1120746	Soil, CSB3-1	12/5/91	EPA 5030/8010
1120747	Soil, CSB3-2	12/5/91	EPA 5030/8010
1120748	Soil, CSB3-3	12/5/91	EPA 5030/8010
1120749	Soil, CSB3-4	12/5/91	EPA 5030/8010
1120750	Soil, CSB3-5	12/5/91	EPA 5030/8010
1120751	Soil, CSB3-~~5~~ 6	12/5/91	EPA 5030/8010
1120752	Water, Travel Blank, #13	12/5/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, CSB3-1	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 6, 1991
Attention: Phil Chopan	Lab Number:	112-0746	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120746.BEE <1>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, CSB3-2	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 6, 1991
Attention: Phil Chopan	Lab Number:	112-0747	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120746 BEE <2>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, CSB3-3	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 6, 1991
Attention: Phil Chopan	Lab Number:	112-0748	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120746.BEE <3>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, CSB3-4	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 7, 1991
Attention: Phil Chopan	Lab Number:	112-0749	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120746.BEE <4>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, CSB3-5	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 7, 1991
Attention: Phil Chopan	Lab Number:	112-0750	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120746.BEE <5>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, CSB3-6	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method.	EPA 5030/8010	Analyzed:	Dec 7, 1991
Attention: Phil Chopan	Lab Number:	112-0751	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

Please Note

This report was amended Jan 9, 1991

1120746 BEE <6>

SEQUOIA ANALYTICAL
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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Water, Travel Blank, #13	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 9, 1991
Attention: Phil Chopan	Lab Number:	112-0752	Reported:	Dec 10, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Trichloroethene	0.50	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1120746 - 51

Reported: Dec 10, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Fulcher	A.Fulcher	A.Fulcher
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 7, 1991	Dec 7, 1991	Dec 7, 1991
QC Sample #:	112-0747	112-0747	112-0747
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	57	54	41
Matrix Spike % Recovery:	114	108	82
Conc. Matrix Spike Dup.:	42	54	44
Matrix Spike Duplicate % Recovery:	84	108	88
Relative % Difference:	30	0.0	7.1

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}}$	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 112-0752

Reported: Dec 10, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	B.Cox	B.Cox	B.Cox
Reporting Units:	µg/L	µg/L	µg/L
Date Analyzed:	Dec 8, 1991	Dec 8, 1991	Dec 8, 1991
QC Sample #:	Blank	Blank	Blank
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	4.1	4.4	3.8
Matrix Spike % Recovery:	82	88	76
Conc. Matrix Spike Dup.:	4.0	4.3	3.8
Matrix Spike Duplicate % Recovery:	80	86	76
Relative % Difference:	2.5	2.3	0.0

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}}$	x 100

1120746.BEE <9>

PAGE 1 of 2

1456

CHAIN OF CUSTODY RECORD

BECHTEL

EL PROJECT NO. 17660 SAMPLER'S NAME Robert Gibbs

RATORY PROJECT NO. _____ SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View BECHTEL SUPERVISOR Janet Armoges

DATE 12/5/91

- include Lab ~~Data~~ Blank Data with report
- Request Data Validation Pac on all analyses.

Change to Bechtel P.O. # 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
CSB3-1	Soil	12/5/91	None	1120746	✓	TCE- only, 2 Day TA
CSB3-2		12/5/91		47	✓	
CSB3-3		12/5/91		48	✓	
CSB3-4		12/5/91		49	✓	
CSB3-5		12/5/91		50	✓	
CSB3-6		12/5/91		51	✓	
CSB3-7		12/5/91		✓	Preserve Sample, Do Not Analyze	
CSB3-8		12/5/91		✓		
CSB3-9		12/5/91		✓		
TB-13	Water	-	HCl	52	✓	TCE Only 2 Day TX

RELINQUISHED BY Robert Gibbs DATE/TIME 12/5/91 18:10 RECEIVED BY K. Walker

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention. Phil Chopan

Project #17660

Enclosed are the results from 6 soil samples received at Sequoia Analytical on December 9,1991 The requested analyses are listed below

1121236	Soil, CSP4-1	12/7/91	Sb, Cd, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1121237	Soil, CSP4-2	12/7/91	EPA 5030/8010
1121238	Soil, CSP4-3	12/7/91	EPA 5030/8010
1121239	Soil, CSP4-4	12/7/91	EPA 5030/8010
1121240	Soil, CSP4-5	12/7/91	EPA 5030/8010
1121241	Soil, CSP4-6	12/7/91	EPA 5030/8010

Please contact me if you have any questions In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-1	Received:	Dec 9, 1991
San Francisco, CA 94119			Extracted:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1236	Analyzed:	Dec 10, 1991
			Reported:	Dec 12, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**130**
Cadmium	0.50	N.D.
Arsenic	**5.0**	**8.9**
Lead	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1121236.BEE <1>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-1	Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Dec 9, 1991
Attention: Phil Chopan	Lab Number:	112-1236	Analyzed:	Dec 11, 1991
			Reported:	Dec 12, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660		Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-1		Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1236		Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
1,2,4-Trichlorobenzene	**5.0**	**130**
Freon 113	**5.0**	**6.1**

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-1	Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1236	Reported:	Dec 12, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	6.2
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-2	Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1237	Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-3	Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1238	Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-4	Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1239	Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660		Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-5		Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1240		Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 7, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP4-6	Received:	Dec 9, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-1241	Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 112-1236

Reported: Dec 12, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenols	4-Chloro-2-Methylphenol	4-Nitro-phenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991
QC Sample #:	BLK120991	BLK120991	BLK120991
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	30	24	26
Matrix Spike % Recovery:	60	48	52
Conc. Matrix Spike Dup.:	35	29	27
Matrix Spike Duplicate % Recovery:	70	58	54
Relative % Difference:	15	19	3.8

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% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference	Conc of M.S. - Conc. of M.S.D. / (Conc of M.S. + Conc. of M.S.D.) / 2	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 112-1236

Reported: Dec 12, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Cadmium	Arsenic	Lead
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	N Herrera	N.Herrera	N Herrera	N.Herrera
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991
QC Sample #:	112-0849	112-0849	112-0849	112-0849
Sample Conc.:	18	N.D.	N.D.	9.6
Spike Conc. Added:	500	500	500	500
Conc. Matrix Spike:	578	575	489	543
Matrix Spike % Recovery:	112	115	98	107
Conc. Matrix Spike Dup.:	586	584	486	552
Matrix Spike Duplicate % Recovery:	114	117	97	108
Relative % Difference:	1.4	1.6	0.62	0.18

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% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1121236 - 41

Reported: Dec 12, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	A.Glover	A.Glover	A.Glover	A.Glover	A.Glover	A.Glover
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991
QC Sample #:	112-1257	112-1257	112-1257	112-1257	112-1257	112-1257
Sample Conc.:	N.D.	N.D.	N.D.	0.60	0.30	N.D.
Spike Conc. Added:	5.0	5.0	5.0	5.0	5.0	5.0
Conc. Matrix Spike:	3.8	4.2	3.5	5.7	5.5	6.0
Matrix Spike % Recovery:	76	84	70	102	104	120
Conc. Matrix Spike Dup.:	4.8	5.4	4.3	5.6	5.4	5.9
Matrix Spike Duplicate % Recovery:	96	108	86	100	102	118
Relative % Difference:	23	25	21	2.0	1.9	1.7

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Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

COPY

page 1 of 2

1501

CHAIN OF CUSTODY RECORD

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC-Mtn View

BECHTEL SUPERVISOR Janet Aggures

DATE 12/9/91

Charge to Bechtel P.O.# 17660-005-F037 TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
112236 CSP4-1	Soil	12/7/91 1430	ice		✓	2 Day TAT Analyze for 8010, 802
	8040, 6010 (Antimony, Cadmium), 7060 (Arsenic), 7421 (Lead).					
	8010 Method should include Freon-113 and 1,2,4-Trichlorobenzene.					
112237 CSP4-2	Soil	12/7/91 1430	ice		✓	TCE Only 2 Day
112238 CSP4-3	↓	↓	↓		✓	↓ ↓
112239 CSP4-4					✓	
112240 CSP4-5					✓	
112241 CSP4-6	↓	↓	↓		✓	↓ ↓
IB-15	Water		HCl, ice		✓	8010 2 Day TAT

RELINQUISHED BY Robert Gibbs DATE/TIME 12/9/91 2:50pm RECEIVED BY K Walker

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

COPY

CHAIN OF CUSTODY RECORD

page 2 of 2

1502

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC-Mtn. View

BECHTEL SUPERVISOR Janet Argyres

DATE 12/9/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
CSP4-7	Soil	12/7/91 1430	ice	✓	hold sample and analyze only	
CSP4-8	↓	↓	↓	✓	upon	authorization by Bechtel
CSP4-9	↓	↓	↓	✓	↓	↓
CSP4-10	↓	↓	↓	✓	↓	↓
	- include Lab Blank Data with report					
	- include Data Validation package with all TCE/8010					
	analyses.					

RELINQUISHED BY Robert Gibbs DATE/TIME 12/9/91 12:50pm RECEIVED BY K. Walter

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

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Bechtel Environmental
P O Box 3965
San Francisco, CA 94119
Attention. Phil Chopan

Project: #17660

Enclosed are the results from 12 soil samples received at Sequoia Analytical on December 11,1991 The requested analyses are listed below·

1121739	Soil, AP1-1	12/11/91	EPA 5030/8010
1121740	Soil, AP1-2	12/11/91	EPA 5030/8010
1121741	Soil, AP1-3	12/11/91	EPA 5030/8010
1121742	Soil, AP1-4	12/11/91	EPA 5030/8010
1121743	Soil, AP1-5	12/11/91	EPA 5030/8010
1121744	Soil, AP1-6	12/11/91	EPA 5030/8010
1121745	Soil, AP2-1	12/11/91	EPA 5030/8010
1121746	Soil, AP2-2	12/11/91	EPA 5030/8010
1121747	Soil, AP2-3	12/11/91	EPA 5030/8010
1121748	Soil, AP2-4	12/11/91	EPA 5030/8010
1121749	Soil, AP2-5	12/11/91	EPA 5030/8010
1121750	Soil, AP2-6	12/11/91	Sb, Cd, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040

Please contact me if you have any questions In the meantime, thank you for the opportunity to work with you on this project

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP1-1	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1739	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1121739.BEE <1>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP1-2	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1740	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Maile A. Springer
Project Manager

1121739 BEE <2>

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP1-3	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1741	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Maile A. Springer
Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP1-4	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1742	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Project Manager

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP1-5	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1743	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP1-6	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1744	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-1	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1745	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-2	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1746	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-3	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1747	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-4	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1748	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.1

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-5	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1749	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1121739.BEE <11>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660		Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-6		Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1750		Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
1,2,4-Trichlorobenzene	**5.0**	**100**
Freon 113	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-6	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1750	Reported:	Dec 13, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	5.0
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

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

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Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-6	Received:	Dec 11, 1991
San Francisco, CA 94119			Extracted:	Dec 12, 1991
Attention: Phil Chopan	Lab Number:	112-1750	Analyzed:	Dec 12, 1991
			Reported:	Dec 13, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	97
Arsenic	5.0	N.D.
Cadmium	0.50	N.D.
Lead	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 11, 1991
P.O. Box 3965	Sample Descript:	Soil, AP2-6	Received:	Dec 11, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Dec 11, 1991
Attention: Phil Chopan	Lab Number:	112-1750	Analyzed:	Dec 12, 1991
			Reported:	Dec 13, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
2,4-Dichlorophenol	100	N.D.
2,4-Dimethylphenol	100	N.D.
2,4-Dinitrophenol	500	N.D.
2-Methyl-4,6-dinitrophenol	500	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	100	N.D.
Pentachlorophenol	500	N.D.
Phenol	100	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1121739 - 50

Reported: Dec 13, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8020	EPA 8020	EPA 8020
Analyst:	A.Glover	A.Glover	A.Glover	A Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991
QC Sample #:	112-1740	112-1740	112-1740	112-1740	112-1740	112-1740
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0	5.0	5.0	5.0
Conc. Matrix Spike:	6.7	5.7	4.1	4.1	4.0	4.5
Matrix Spike % Recovery:	134	114	82	82	80	90
Conc. Matrix Spike Dup.:	3.9	4.7	3.6	3.5	3.5	4.2
Matrix Spike Duplicate % Recovery:	78	94	72	70	70	84
Relative % Difference:	55	19	13	16	13	6.9

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc of M S. - Conc of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S - Conc. of M.S.D. / (Conc. of M.S. + Conc of M.S.D.) / 2	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 112-1750

Reported: Dec 13, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Lead	Antimony	Cadmium	Arsenic
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	C.Medefesser	C Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 12, 1991	Dec 12, 1991	Dec 12, 1991	Dec 12, 1991
QC Sample #:	111-2353	111-2353	111-2353	111-2353
Sample Conc.:	N.D.	6.3	N.D.	N.D.
Spike Conc. Added:	100	100	100	100
Conc. Matrix Spike:	110	117	112	100
Matrix Spike % Recovery:	110	111	112	100
Conc. Matrix Spike Dup.:	109	113	112	110
Matrix Spike Duplicate % Recovery:	109	107	112	110
Relative % Difference:	0.91	3.5	1.0	9.5

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S D.) / 2	x 100

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Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 112-1750

Reported: Dec 13, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4-chloro-3-methylphenol	4-Nitrophenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L.Haar	L.Haar
Reporting Units:	mg/L	mg/L	mg/L
Date Analyzed:	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991
QC Sample #:	BLK120991	BLK120991	BLK120991
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	30	24	26
Matrix Spike % Recovery:	60	48	52
Conc. Matrix Spike Dup.:	29	29	27
Matrix Spike Duplicate % Recovery:	70	58	54
Relative % Difference:	15	19	3.8

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

1504

CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO. _____

SAMPLER'S SIGNATURE [signature]

SITE IDENTIFICATION NEC - Mtn. View

BECHTEL SUPERVISOR Janet Argyres

DATE 12/11/91

include Freon-113 and 1,2,4-Trichlorobenzene in 8010 analyses
include lab blank data; data validation package requested on all 8010 analyses

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
AP1-1	Soil	12/11/91 1430	none	1121739	✓	TCE only 1 day T7
AP1-2				40	✓	
AP1-3				41	✓	
AP1-4				42	✓	
AP1-5				43	✓	
AP1-6				44	✓	
AP1-7				✓	hold sample - analyze only upon	Bechtel notification.
AP1-8				✓		
AP1-9				✓		
TF	Change to Bechtel P.O. 17660-005-F037-TSC.					

RELINQUISHED BY [signature] DATE/TIME 12/11 / 1717 RECEIVED BY A. Nugra

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660

LABORATORY PROJECT NO.

SITE IDENTIFICATION NEC-Mtn. View

SAMPLER'S NAME Robert Gibbs

SAMPLER'S SIGNATURE Robert Gibbs

BECHTEL SUPERVISOR Janet Argyres

DATE 12/11/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
AP2-1	Soil	12/11/91 1530	none	1121745	✓	TCE only 1 day TA
AP2-2				46	✓	
AP2-3				47	✓	
AP2-4				48	✓	
AP2-5				49	✓	
AP2-6				50	✓	8010, 8020, 8040, 6010 (Ant, Cd), 7060, 7740 Arsenic
AP2-7				✓	hold sample: analyze only upon Bechtel notification	
AP2-8				✓		
AP2-9				✓		

RELINQUISHED BY Robert Gibbs DATE/TIME 12/11/1717 RECEIVED BY A. Nagra.

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project. #17660

Enclosed are the results from 6 soil samples received at Sequoia Analytical on December 13,1991 The requested analyses are listed below:

1122225	Soil, AP3-2	12/13/91	EPA 5030/8010
1122227	Soil, AP3-1	12/13/91	EPA 5030/8010
1122229	Soil, AP3-3	12/13/91	EPA 5030/8010
1122230	Soil, AP3-4	12/13/91	EPA 5030/8010
1122231	Soil, AP3-5	12/13/91	EPA 5030/8010
1122232	Soil, AP3-6	12/13/91	EPA 5030/8010

Please contact me if you have any questions In the meantime thank you for the opportunity to work with you on this project

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 13, 1991
P.O. Box 3965	Sample Descript:	Soil, AP3-1	Received:	Dec 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 16, 1991
Attention: Phil Chopan	Lab Number:	112-2227	Reported:	Dec 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122227 BEE <1>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 13, 1991
P O. Box 3965	Sample Descript:	Soil, AP3-2	Received:	Dec 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 16, 1991
Attention: Phil Chopan	Lab Number:	112-2225	Reported:	Dec 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122227 BEE <2>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 13, 1991
P.O. Box 3965	Sample Descript:	Soil, AP3-3	Received:	Dec 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 16, 1991
Attention: Phil Chopan	Lab Number:	112-2229	Reported:	Dec 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122227 Bt : 3

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 13, 1991
P.O. Box 3965	Sample Descript:	Soil, AP3-4	Received:	Dec 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 16, 1991
Attention: Phil Chopan	Lab Number:	112-2230	Reported:	Dec 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	6.2

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122227 BEE <4>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 13, 1991
P.O. Box 3965	Sample Descript:	Soil, AP3-5	Received:	Dec 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 16, 1991
Attention: Phil Chopan	Lab Number:	112-2231	Reported:	Dec 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122227.BEE <5>

SEQUOIA ANALYTICAL
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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 13, 1991
P.O. Box 3965	Sample Descript:	Soil, AP3-6	Received:	Dec 13, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 16, 1991
Attention: Phil Chopan	Lab Number:	112-2232	Reported:	Dec 18, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122227 BEE <6>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1122227 - 32

Reported: Dec 18, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 16, 1991	Dec 16, 1991	Dec 16, 1991
QC Sample #:	112-2224	112-2224	112-2224
Sample Conc.:	N.D.	0.5	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	7.1	6.0	3.9
Matrix Spike % Recovery:	142	110	78
Conc. Matrix Spike Dup.:	6.0	4.5	3.7
Matrix Spike Duplicate % Recovery:	120	80	74
Relative % Difference:	17	32	5.3

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc of M.S. + Conc of M.S.D.}) / 2} \times 100$

CHAIN OF CUSTODY RECORD

1320

COPY

BECHTEL PROJECT NO. 17663

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE [signature]

SITE IDENTIFICATION NEC - Mtn. View

BECHTEL SUPERVISOR Janet Argyropo

DATE 12/13/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
AP3-1	Soil	12/13/91 1600	none		✓	1122227 24hour TAT TCE Only
AP3-2					✓	28 24hour T TCE Only
AP3-3					✓	29
AP3-4					✓	30
AP3-5					✓	31
AP3-6					✓	32
AP3-7				✓	Preserve sample, Analyze only upon	notification by Bechtel
AP3-8				✓		
AP3-9	✓	✓	✓	✓	✓	✓

- include Lab blank data with report
- include Freon-113 and 1,2,4-Trichlorobenzene with 8010/TCE analysis
- include Data Validation package with 8010/TCE analysis

RELINQUISHED BY [signature] DATE/TIME 12-13 / 1710 RECEIVED BY [signature]

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY FOR LABORATORY, DATE/TIME

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention. Phil Chopan

Project: #17660

Enclosed are the results from 17 soil samples, 1 water samples, 1 other samples received at Sequoia Analytical on December 16,1991 The requested analyses are listed below

1122625	Soil, AP5-1	12/16/91	EPA 5030/8010
1122626	Soil, AP5-2	12/16/91	EPA 5030/8010
1122627	Soil, AP5-3	12/16/91	EPA 5030/8010
1122628	Soil, AP5-4	12/16/91	EPA 5030/8010
1122629	Soil, AP5-5	12/16/91	EPA 5030/8010
1122630	Soil, AP5-6	12/16/91	EPA 5030/8010
1122631	Soil, CSP5-2	12/16/91	EPA 5030/8010
1122632	Soil, CSP5-3	12/16/91	EPA 5030/8010
1122633	Soil, CSP5-4	12/16/91	EPA 5030/8010
1122634	CSP5-5	12/16/91	EPA 5030/8010
1122635	Soil, CSP5-6	12/16/91	EPA 5030/8010
1122636	Soil, AP4-2	12/16/91	EPA 5030/8010
1122637	Soil, AP4-3	12/16/91	EPA 5030/8010
1122638	Soil, AP4-4	12/16/91	EPA 5030/8010
1122639	Soil, AP4-5	12/16/91	EPA 5030/8010
1122640	Soil, AP4-6	12/16/91	EPA 5030/8010
1122641	Soil, CSP5-1	12/16/91	Sb, Cd, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040

SEQUOIA ANALYTICAL
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SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1122642	Soil, AP4-1	12/16/91	Sb, Cd, As, pb EPA 5030/8010 EPA 5030/8020 EPA 8040
1122643	Water, TB #18	12/16/91	EPA 5030/8010

Please contact me if you have any questions In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP5-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2625	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP5-2	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2626	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP5-3	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2627	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	8.2

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP5-4	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2628	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP5-5	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2629	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP5-6	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2630	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.4

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-2	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2631	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	5.0

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-3	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2632	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-4	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2633	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	CSP5-5	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2634	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	6.3

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-6	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2635	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-2	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2636	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-3	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2637	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-4	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2638	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-5	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2639	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-6	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2640	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2641	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**6.6**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
Freon 113	**5.0**	**5.8**
1,2,4-Trichlorobenzene	**5.0**	**7.1**

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2642	Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N D
cis-1,2-Dichloroethene	5.0	N.D
trans-1,2-Dichloroethene	5.0	N.D
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D
1,1,1-Trichloroethane	5.0	N.D
1,1,2-Trichloroethane	5 0	N.D.
Trichloroethene	5.0	N.D
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.
Freon 113	5.0	N.D.
1,2,4-Trichlorobenzene	**5.0**	**60**

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

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Bechtel Environmental	Client Project ID:	#17660		Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Water, TB #18		Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010		Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2643		Reported:	Dec 20, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0 50	N.D
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0 50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2641	Reported:	Dec 23, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Dec 18, 1991
Attention: Phil Chopan	Lab Number:	112-2642	Reported:	Dec 23, 1991

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Benzene	5.0	N.D.
Chlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Toluene	5.0	N.D.
Xylene	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Dec 19, 1991
Attention: Phil Chopan	Lab Number:	112-2641	Analyzed:	Dec 19, 1991
			Reported:	Dec 20, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	500	N.D.
2-Chlorophenol	500	N.D.
2,4-Dichlorophenol	500	N.D.
2,4-Dimethylphenol	500	N.D.
2,4-Dinitrophenol	2,500	N.D.
2-Methyl-4,6-dinitrophenol	2,500	N.D.
2-Nitrophenol	500	N.D.
4-Nitrophenol	500	N.D.
Pentachlorophenol	2,500	N.D.
Phenol	500	N.D.
2,4,6-Trichlorophenol	500	N.D.

Analytes reported as N.D. were not present above the stated limit of detection Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-1	Received:	Dec 16, 1991
San Francisco, CA 94119	Analysis Method:	EPA 8040	Extracted:	Dec 19, 1991
Attention: Phil Chopan	Lab Number:	112-2642	Analyzed:	Dec 19, 1991
			Reported:	Dec 20, 1991

PHENOLS (EPA 8040)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
4-Chloro-3-methylphenol	500	N.D.
2-Chlorophenol	500	N.D.
2,4-Dichlorophenol	500	N.D.
2,4-Dimethylphenol	500	N.D.
2,4-Dinitrophenol	2,500	N.D.
2-Methyl-4,6-dinitrophenol	2,500	N.D.
2-Nitrophenol	500	N.D.
4-Nitrophenol	500	N.D.
Pentachlorophenol	2,500	N.D.
Phenol	500	N.D.
2,4,6-Trichlorophenol	500	N.D.

Analytes reported as N.D. were not present above the stated limit of detection Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, CSP5-1	Received:	Dec 16, 1991
San Francisco, CA 94119			Extracted:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2641	Analyzed:	Dec 17, 1991
			Reported:	Dec 20, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**8.2**
Cadmium	**0.50**	**2.2**
Arsenic	2.5	N.D.
Lead	5.0	N.D.

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

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Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 16, 1991
P.O. Box 3965	Sample Descript:	Soil, AP4-1	Received:	Dec 16, 1991
San Francisco, CA 94119			Extracted:	Dec 17, 1991
Attention: Phil Chopan	Lab Number:	112-2642	Analyzed:	Dec 17, 1991
			Reported:	Dec 20, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	**5.0**	**18**
Cadmium	0.50	N.D.
Arsenic	2.5	N.D.
Lead	5.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1122625 BEE <25>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1122625 - 43

Reported: Dec 23, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Glover	A.Glover	A Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 17, 1991	Dec 17, 1991	Dec 17, 1991
QC Sample #:	112-2625	112-2625	112-2625
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	4.0	5.3	3.7
Matrix Spike % Recovery:	80	106	74
Conc. Matrix Spike Dup.:	7.2	8.4	4.5
Matrix Spike Duplicate % Recovery:	144	168	90
Relative % Difference:	57	45	20

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc of M.S. - Conc. of Sample}}{\text{Spike Conc Added}} \times 100$

Relative % Difference $\frac{\text{Conc. of M.S. - Conc of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.}) / 2} \times 100$

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1122641 - 42

Reported: Dec 23, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	4,-chloro-3-methylphenol	4-Nitrophenol
Method:	EPA 8040	EPA 8040	EPA 8040
Analyst:	L.Haar	L Haar	L Haar
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991
QC Sample #:	BLK120991	BLK120991	BLK120991
Sample Conc.:	N.D.	N.D.	N.D
Spike Conc. Added:	50	50	50
Conc. Matrix Spike:	30	24	26
Matrix Spike % Recovery:	60	48	52
Conc. Matrix Spike Dup.:	35	29	27
Matrix Spike Duplicate % Recovery:	70	58	54
Relative % Difference:	15	19	3.8

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery	$\frac{\text{Conc of M.S. - Conc of Sample}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference	$\frac{\text{Conc. of M.S. - Conc of M.S.D.}}{\text{(Conc of M.S + Conc. of M.S D.) / 2}}$	x 100

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680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1122641 - 42

Reported: Dec 23, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Antimony	Lead	Cadmium	Arsenic
Method:	EPA 6010	EPA 8010	EPA 8010	EPA 8010
Analyst:	N.Herrera	N Herrera	N Herrera	N Herrera
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 17, 1991	Dec 17, 1991	Dec 17, 1991	Dec 17, 1991
QC Sample #:	112-2642	112-2642	112-2642	112-2642
Sample Conc.:	18	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50
Conc. Matrix Spike:	59	48	43	44
Matrix Spike % Recovery:	82	96	86	88
Conc. Matrix Spike Dup.:	64	50	43	47
Matrix Spike Duplicate % Recovery:	92	100	86	94
Relative % Difference:	8.1	4.1	0.0	6.6

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference.	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

CHAIN OF CUSTODY RECORD COPY

485

BECHTEL PROJECT NO. 17660-005

SAMPLER'S NAME STEVE NAKASAKI

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE

SITE IDENTIFICATION NEC MTN VIEW

BECHTEL SUPERVISOR JANET ARGYRES

DATE 12/16/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	DATE TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
AP5-1	SOIL	12/16/91 1115	NONE	112262	5X	TCE ONLY (24 Hr TAT)
AP5-2		12/16/91 1118		26	X	* include Data Validation package on all TCE/8010 analyses
AP5-3		12/16/91 1123		27	X	
[illegible]5-4		12/16/91 1126		28	X	
AP5-5		12/16/91 1130		29	X	* include laboratory Blank Data.
AP5-6		12/16/91 1133		30	X	
AP5-7		12/16/91 1140		X		Analyze only upon Bechtel request
AP5-8		12/16/91 1145		X		
AP5-9		12/16/91 1147		X		

RELINQUISHED BY _____ DATE/TIME 12/16/91 1652 RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME 12-16 1652

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

2 of 3

CHAIN OF CUSTODY RECORD COPY 1422

BECHTEL PROJECT NO. 17660-005 SAMPLER'S NAME STEVE NAKASAKI

LABORATORY PROJECT NO. _____ SAMPLER'S SIGNATURE [signature]

SITE IDENTIFICATION NEC MTN VIEW BECHTEL SUPERVISOR JANET ARGYRES

DATE 12/16/91

* Please include Data Validation Packages on all TCE/8010 Analyses
* Please include Lab blank Data

24 HR TAT

SAMPLE ID NUMBER	MATRIX OF SAMPLE	DATE & TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	also Freon 113 and 1,2,4-TCB REMARKS
CSP5-1	SOIL	12/16/91 1400	NONE	1122641	X	8010, 8020, 8040 6010(Mn,Cd) 7060(As), 7421 (Pb)
CSP5-2		12/16/91 1401		1122631	X	TCE ONLY
CSP5-3		12/16/91 1403		32	X	
CSP5-4		12/16/91 1405		33	X	
CSP5-5		12/16/91 1406		34	X	
CSP5-6		12/16/91 1407		35	X	
TB-18	WATER	12/13/91 0910	HCl	43	X	8010 + Freon 113; 1,2,4-TCB
CSP5-7	SOIL	12/16/91 1520	NONE	X		Analyze only upon Bechtel request
CSP5-8		12/16/91 1522		X		
CSP5-9		12/16/91 1525		X		

RELINQUISHED BY [signature] DATE/TIME 12/16/91 1652 RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY Sophia Patrizi FOR LABORATORY, DATE/TIME 12-16 1652

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660-005

SAMPLER'S NAME STEVE NAKASAKI

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE

SITE IDENTIFICATION NEC MTN VIEW

BECHTEL SUPERVISOR JANET ARGYLES

DATE 12/16/91

* Please include Data Validation Packages on all TCE/8010 analyses

* Please include Lab blank data

24 Hr TAT

SAMPLE ID NUMBER	MATRIX OF SAMPLE	DATE TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	also Freon 113 and 1,2A-TCB REMARKS
AP4-1	SOIL	12/16/91 0917	NONE 1122642		X	8010, 8020, 8040 6010 (Ant., Cd) 7060 (As), 7421 (Pb)
AP4-2		12/16/91 0920	1122636		X	TCE ONLY
AP4-3		12/16/91 0923		37	X	
AP4-4		12/16/91 0928		38	X	
AP4-5		12/16/91 0932		39	X	
AP4-6		12/16/91 0935		40	X	
AP4-7		12/16/91 0938		X		Analyze only upon Bechtel request
AP4-8		12/16/91 0940		X		
AP4-9		12/16/91 0943		X		

RELINQUISHED BY _____ DATE/TIME 12/16/91 1652 RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY Sophia Pates FOR LABORATORY, DATE/TIME 12-16 1652

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660

Enclosed are the results from 1 soil samples received at Sequoia Analytical on December 5,1991. The requested analyses are listed below:

1120815	Soil, BA-14-14	12/5/91	EPA 5030/8010

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 5, 1991
P.O. Box 3965	Sample Descript:	Soil, BA-14-14	Received:	Dec 5, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 10, 1991
Attention: Phil Chopan	Lab Number:	112-0815	Reported:	Dec 12, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	17

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120815.BEE <1>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 112-0815

Reported: Dec 12, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8015	EPA 8015	EPA 8015
Analyst:	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 10, 1991	Dec 10, 1991	Dec 10, 1991
QC Sample #:	112-1257	112-1257	112-1257
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	3.8	4.2	3.5
Matrix Spike % Recovery:	76	84	70
Conc. Matrix Spike Dup.:	4.8	5.4	4.3
Matrix Spike Duplicate % Recovery:	96	108	86
Relative % Difference:	23	25	21

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

1120815.BEE <2>

Page 2 of 2.

1457

CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17860

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC- Mtn. View

BECHTEL SUPERVISOR Janet Argyres

DATE 12/5/91

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
jar. BA-14-14	Soil	12/5/91 16:35	none 1120815		V	TCE Only. 5-Day T
	- include Lab Blank Data with report.					
	- Request Data Validation Package on all Analyses.					

RELINQUISHED BY Robert Gibbs DATE/TIME 12/5/91 18:10 RECEIVED BY K. Watts

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY _____ FOR LABORATORY, DATE/TIME _____

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P O Box 3965
San Francisco, CA 94119
Attention Phil Chopan

Project #17660

Enclosed are the results from 1 soil samples 1 water samples 0 other samples received at Sequoia Analytical on December 6,1991 The requested analyses are listed below

1120908	Soil, BA-16-14	12/6/91	EPA 5030/8010
1120909	Water, Travel Blank, #14	12/6/91	EPA 5030/8010

Please contact me if you have any questions In the meantime, thank you for the opportunity to work with you on this project

Very truly yours,

SEQUOIA ANALYTICAL

Maile A Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Soil, BA-16-14	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 11, 1991
Attention: Phil Chopan	Lab Number:	112-0908	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Trichloroethene	5.0	130

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120908.BEE <1>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660	Sampled:	Dec 6, 1991
P.O. Box 3965	Sample Descript:	Water, Travel Blank, #14	Received:	Dec 6, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 11, 1991
Attention: Phil Chopan	Lab Number:	112-0909	Reported:	Dec 13, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Trichloroethene	0.50	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

1120908.BEE <2>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Client Project ID: #17660

QC Sample Group: 1120908 - 09

Reported: Dec 13, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	A.Glover	A.Glover	A.Glover
Reporting Units:	µg/kg	µg/kg	µg/kg
Date Analyzed:	Dec 11, 1991	Dec 11, 1991	Dec 11, 1991
QC Sample #:	112-1740	112-1740	112-1740
Sample Conc.:	N.D.	N.D.	N.D.
Spike Conc. Added:	5.0	5.0	5.0
Conc. Matrix Spike:	6.7	5.7	4.1
Matrix Spike % Recovery:	134	114	82
Conc. Matrix Spike Dup.:	3.9	4.7	3.6
Matrix Spike Duplicate % Recovery:	78	94	72
Relative % Difference:	55	19	13

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

CHAIN OF CUSTODY RECORD COPY

1459

BECHTEL PROJECT NO. 17660

SAMPLER'S NAME Robert Gibbs

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE Robert Gibbs

SITE IDENTIFICATION NEC - Mtn. View

BECHTEL SUPERVISOR Janet Anyres

DATE 12/6/91

Bill to Bechtel P.O.# 17660-005-F037-TSC

SAMPLE ID NUMBER	MATRIX OF SAMPLE	TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
BA-16-14	Soil	12/6/91 0815	none		✓	1120908 TCE Only 5Day TA
TB-14	Water		HCl		✓	TCE Only ↓09
	- Request lab blank data with report					
	- Include Data Validation package on all TCE/8010 Analyses.					

RELINQUISHED BY Rick Morales DATE/TIME 12/1/91 16:50 RECEIVED BY [illegible]

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RELINQUISHED BY _____ DATE/TIME _____ RECEIVED BY _____

RECEIVED BY [illegible] FOR LABORATORY, DATE/TIME 12/6 4:52

AUTHORIZED FOR DISPOSAL BY _____ TYPE OF DISPOSAL _____

RELINQUISHED TO _____ FOR DISPOSAL, DATE/TIME _____

DCI
DYNAMIC CONSULTANTS, INC.

415 Fairchild Drive
Mountain View, CA 94043
Tel (415) 967-6982
Fax (415) 967-6955

6500 Dublin Blvd., Suite 200B
Dublin, CA 94568
Tel (510) 833-9333
Fax (510) 833-0401

26 Hangar Way Suite F
Watsonville, CA 95076
Tel (408) 724-2234
Fax (408) 724-9166

235 Georgia Mall South, Suite A
Vallejo, CA 94590
Tel (707) 647-7187
Fax (707) 552-0356

December 3, 1991/tc

Ferma Corporation
1265 Montecito Avenue
Mountain View, California 94042

DCI No.: 2891-M01
Lab No.: 1-521195

Attention: Joe Broz

PROJECT: NILES CANYON IMPORT

SUBJECT: LABORATORY TEST RESULTS

SAMPLE: One (1) sample of import fill submitted to our laboratory by your representative on November 21, 1991 and tested in accordance with ASTM Designation D2487.

SUMMARY OF TEST RESULTS

A. Soil Classification - ASTM D2487

Sample description - Yellowish brown silty clay with gravel

Group symbol: CL

B. Plasticity Index - ASTM D 4318

Liquid Limit = 29.3
Plastic Limit = 14.7
Plasticity Index = 14.6 or 15

Respectfully submitted
DYNAMIC CONSULTANTS, INC.

Denny Zucchi
Laboratory Supervisor

1c:

Rec'd 12/20/91 A. Omid

UNITED SOIL ENGINEERING, INC.
Soil, Foundation and Geological Engineers
3476 EDWARD AVENUE, SANTA CLARA, CALIFORNIA 95054 (408) 988-2990

File No. 91-3968-S2
December 17, 1991

Ferma Corporation
P.O. Box 1316
Mountain View, CA 94042

Attention: Mr. Joe Broz

Subject: NEC Building
501 Ellis Street
Mountain View, CA
TESTING AND INSPECTION SERVICES
DURING BACKFILLING OPERATION OF
EXCAVATED AREA BEHIND THE
EXISTING BUILDING

Gentlemen:

Pursuant to your request, we have provided testing and inspection services during the backfilling operation of the excavated area behind the existing building. The subject project is located at 501 Ellis Street in Mountain View, California.

The work commenced with the excavation of the contaminated soil on the designated area. The average contamination depth was three feet. Then the native soil material was placed back in lifts on the excavated area and each lift was moisture conditioned as necessary, and compacted to 95% maximum relative compaction. As the fill was placed it was keyed into adjacent slope and compacted properly. Then, recycled baserock was placed in one lift and compacted to 95% maximum relative compaction.

The backfilling operation of the excavated area started on December 13, 1991 and ended on December 16, 1991. The backfilling operation was performed by Ferma Corporation, our field engineer was present at all time during this operation.

File No. 91-3968-S2

A total of 10 field density tests performed by our firm using (MC-1) nuclear gauge show values in excess of 95% relative compaction on the native material and 95% relative maximum compaction on the recycled baserock. These tests are performed in accordance with laboratory compaction test procedure ASTM D1557-85. As the result of our tests, we certified that the backfilling of the excavated area is complete and ready to receive further improvements.

Summarized in Table I are the results of the field density tests performed by our firm to date. Approximate locations of these tests are shown on Figure 1 - Site Plan.

If you have any questions or require additional information, please feel free to contact our office at your convenience.

Very truly yours,

UNITED SOIL ENGINEERING, INC.

Ali Hassouneh
Project Engineer

Vien Vo, P.E.
use-2839/Copies: 2 to Ferma Corporation

File No. 91-3968-S2

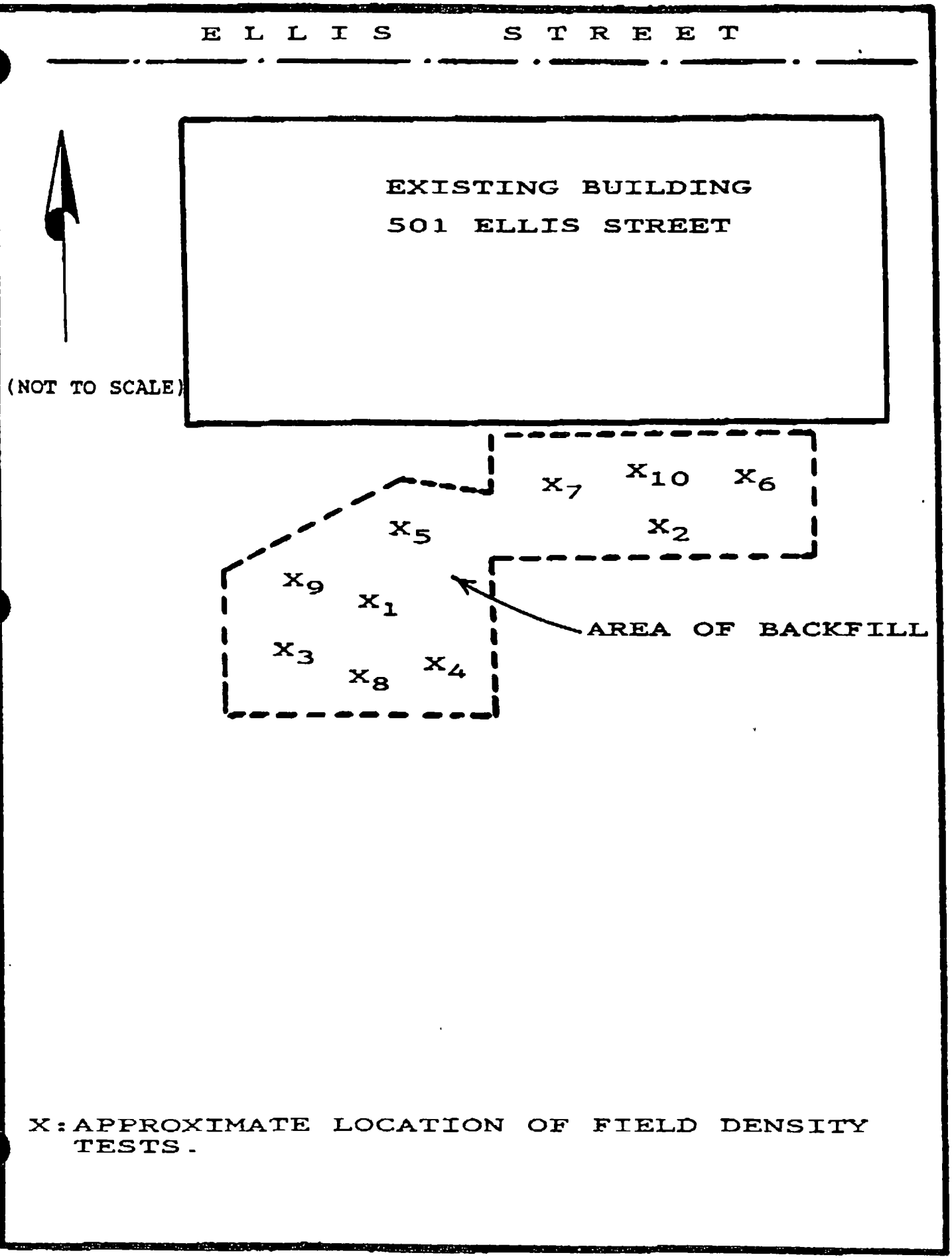


Figure 1- Site Plan

United Soil Engineering, Inc.

File No. 91-3968-S2

TABLE I

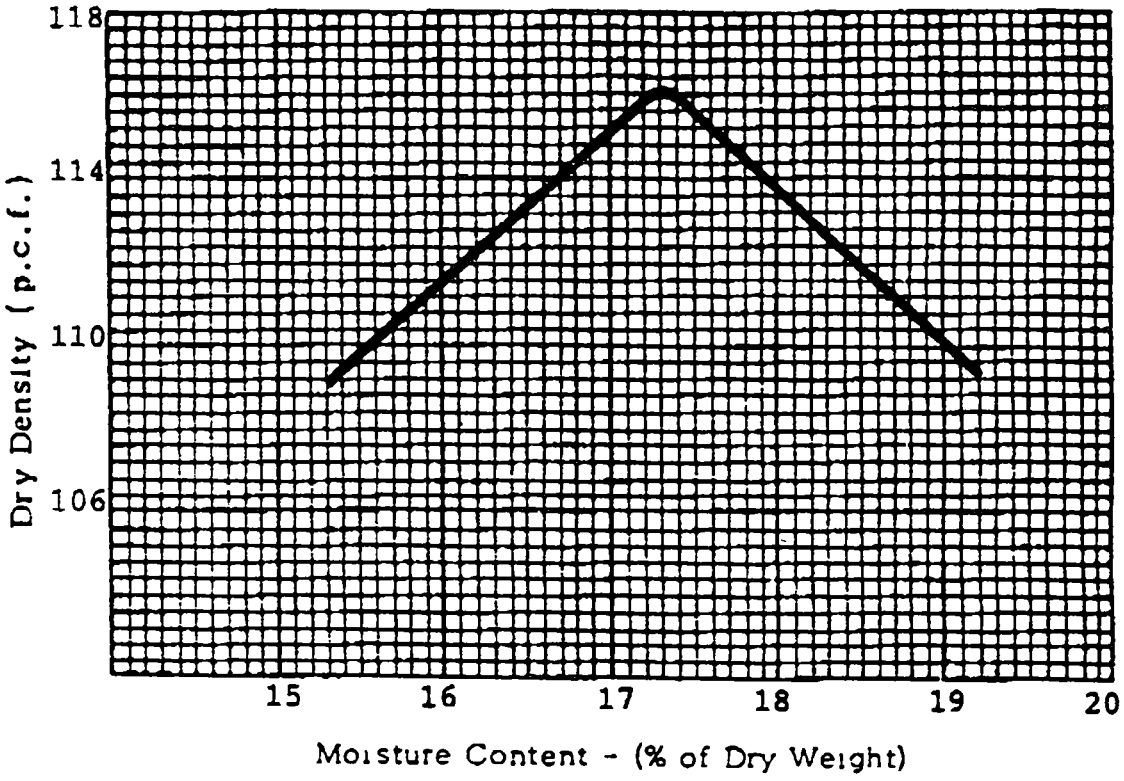
SUMMARY OF FIELD DENSITY TEST RESULTS

Test No.	Date 1991	Pad No. and Elevation	Moisture % Dry Wt.	Dry Density p.c.f.	Rel. Comp % of Max.	Soil Type & Remark
1	12/13	X_1 S.G.	19.2	112.0	96.5	A
2	"	X_2 F.L.	20.0	111.3	95.9	A
3	"	X_3 F.L.	20.9	110.8	95.4	A
4	"	X_4 F.L.	20.4	110.5	95.2	A
5	"	X_5 S.L.	17.4	113.3	97.5	A
6	12/16	X_6 S.L.	16.1	112.0	96.4	A
7	"	X_7 L.L.	16.9	114.0	98.2	A
8	"	X_8 L.L.	16.5	113.3	97.5	A
9	"	X_9 B.R.	10.1	116.3	95.3	B
10	"	X_{10} B.R.	10.6	117.5	96.3	B

NOTE:

S.G. = Subgrade
F.L. = First Lift
S.L. - Second Lift
L.L. = Last Lift
B.R. = Baserock

This testing was for backfilling of excavated area



SAMPLE: A

DESCRIPTION: Reddish Brown Sandy Silty CLAY

LABORATORY TEST PROCEDURE: ASTM D1557-85.

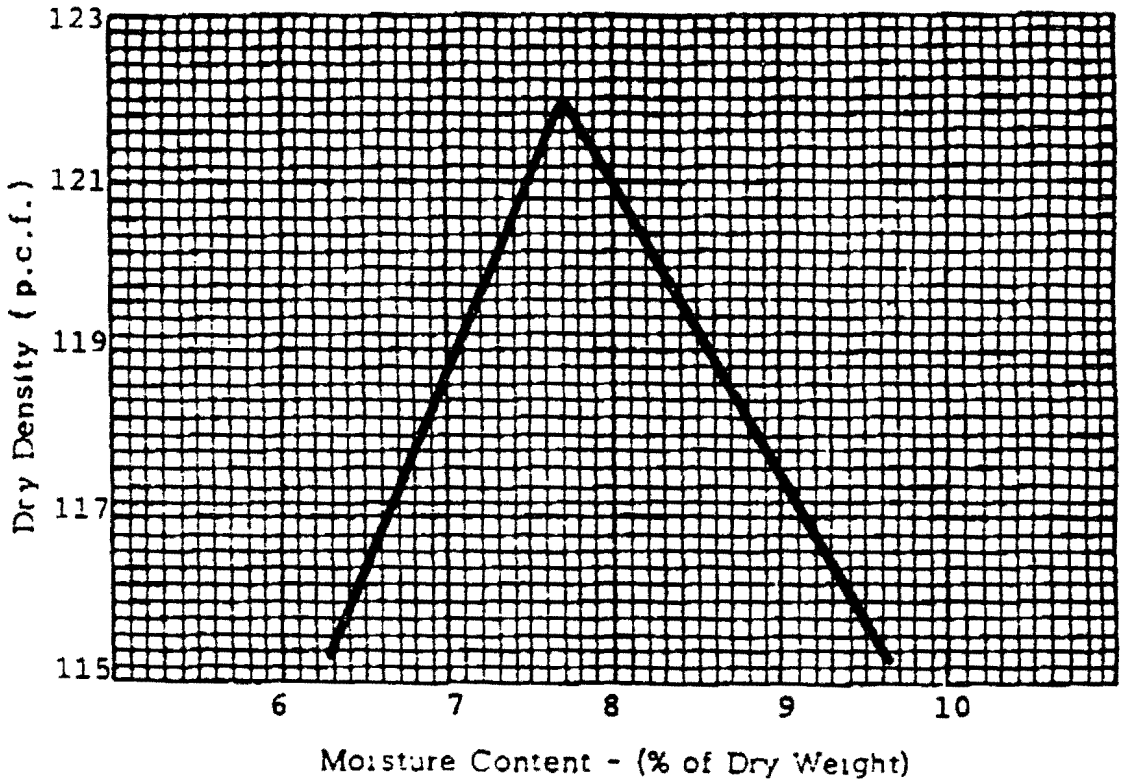
MAXIMUM DRY DENSITY: 116.1 p.c.f.

OPTIMUM MOISTURE CONTENT: 17.3%

Figure 2- Compaction Curve "A"

File No. 91-3968-S2

United Soil Engineering, Incorporated



SAMPLE: B

DESCRIPTION: Grayish Recycle BASEROCK

LABORATORY TEST PROCEDURE: ASTM D1557-85.

MAXIMUM DRY DENSITY: 122.0 p.c.f.

OPTIMUM MOISTURE CONTENT: 7.7%

RMC LONESTAR
TECHNICAL SERVICES

4750 Norris Canyon Road, Suite A
San Ramon, California 94583
(415) 866-2780

Rec 12/4/91 L.Ort

Group 216	Mix Number 3041

2.00 SK SAND SLURRY

Report No. 18329
12/02/1991
11020000

FERMA CORPORATION
ATTN: JOE BRUZ

NEC
501 ELLIS ST.
MOUNTAIN VIEW

MATERIALS DESCRIPTION

CEMENT TYPE II ASTM C-150
CONCRETE SAND ELIOT ASTM C-33

This mix will produce concrete meeting the design criteria when produced, sampled and tested in accordance with ASTM C-94 and UBC.
Mix will be adjusted as required by UBC Section 2604 to maintain the noted strength level.

Cementitious Material 2.00 sk.
Maximum Size Aggregate SAND in.
Slump 4.50 ± 1.50 in.
W/C+F ratio 2.88
Entrained Air n/a %

Code	Material	Solid Volume	SSD Quantity
1002	CEMENT TYPE II	0.96 cf	188 lbs
2107	CONCRETE SAND ELIOT	16.56 cf	2760 lbs
	Air (3.00 %)	0.81 cf	
	Water (64.9 gal.)	8.67 cf	541 lb
	Totals.	27.00 cf	. . .3489 lbs

Uses: BACKFILL

Xavier Victoria

Additions

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental
P.O. Box 3965
San Francisco, CA 94119
Attention: Phil Chopan

Project: #17660-005

Enclosed are the results from 1 water samples received at Sequoia Analytical on December 20,1991 The requested analyses are listed below:

1123562	Water, Baker 1	12/20/91	EPA 5030/8010 EPA 5030/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Dec 20, 199
P.O. Box 3965	Sample Descript:	Water, Baker 1	Received:	Dec 20, 199
San Francisco, CA 94119	Analysis Method:	EPA 5030/8010	Analyzed:	Dec 30, 199
Attention: Phil Chopan	Lab Number:	112-3562	Reported:	Jan 3, 199

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0 50	N.D.
Bromoform	1 0	N.D.
Bromomethane	1 0	N.D.
Carbon tetrachloride	0 50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	**0.50**	**1.5**
Chloromethane	1 0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	**0.50**	**1.2**
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0 50	N.D
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N D
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**2.3**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1 0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Bechtel Environmental	Client Project ID:	#17660-005	Sampled:	Dec 20, 1991
P.O. Box 3965	Sample Descript:	Water, Baker 1	Received:	Dec 20, 1991
San Francisco, CA 94119	Analysis Method:	EPA 5030/8020	Analyzed:	Dec 30, 1991
Attention: Phil Chopan	Lab Number:	112-3562	Reported:	Jan 3, 1992

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene	0.50	N.D.
Chlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Toluene	0.50	N.D.
Xylene	0.50	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

CHAIN OF CUSTODY RECORD

COPY

BECHTEL PROJECT NO. 17660-005

SAMPLER'S NAME S NAKASAKI

LABORATORY PROJECT NO.

SAMPLER'S SIGNATURE

SITE IDENTIFICATION NEC MTN VIEW

BECHTEL SUPERVISOR JANET ARGYR

DATE 12/20/91

* Please include lab blank data

SAMPLE ID NUMBER	MATRIX OF SAMPLE	DATE TIME TAKEN	PRESERVATIVES	ARCHIVE	ANALYZE	REMARKS
BAKER-1	WATER	12/20/91 1610	HCl	112356	8010 8020	3 x 40ml VOA
						24 Hr TAT

RELINQUISHED BY DATE/TIME 12/20/1645 RECEIVED BY A. Nagra.

RELINQUISHED BY DATE/TIME RECEIVED BY

RELINQUISHED BY DATE/TIME RECEIVED BY

RECEIVED BY FOR LABORATORY, DATE/TIME

AUTHORIZED FOR DISPOSAL BY TYPE OF DISPOSAL

RELINQUISHED TO FOR DISPOSAL, DATE/TIME