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REPORTS

DATE:

Aug. 1998

ENTACT

REMEDIATION ASSESSMENT REPORT AUGUST 1998

HALLIBURTON
WELLEX SITE
2600 BLOOMFIELD HWY
FARMINGTON, NM

1616 CORPORATE COURT • IRVING, TX 75019 • 972.580.1323

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APPENDICES

INTRODUCTION 1.0

ENTACT, Inc. implemented a remediation and assessment work plan at the former Wellex facility located at 2600 Bloomfield Highway in Farmington, New Mexico. This report describes soil remediation and groundwater assessment activities conducted by ENTACT during June and July 1998. Specifications concerning these activities were described in the *Work Plan for Source Removal and Groundwater Monitoring Well Installation* (the Work Plan) dated January 27, 1998. This Work Plan was approved by the Energy, Minerals and Natural Resources Department of the Oil Conservation Division (ODC) in Santa Fe, New Mexico.

The objective of the removal activity was to excavate and dispose of soil contaminated by historic releases from an oil/water separator. Although the horizontal extent of the impacted soil had been defined by previous investigations conducted by OVAC, Inc. and Brown & Root Environmental, prior investigations had not adequately defined the vertical extent of the historic release. To assess vertical extent and potential impacts to the upper groundwater aquifer, four monitor wells were installed approximately 30 feet below ground surface.

Site Description

The former Wellex and Otis Engineering facility contains a 6,000 square foot corrugated metal building and perimeter fencing. The building is situated on the southeast portion of an acre tract.

North of the building, previous investigations have upturned the subsurface soil, and cobbles of various sizes were spread across the ground surface. A shallow residential irrigation canal is located immediately north and west of the property boundary.

A single family dwelling is located north of the facility, a trailer park is east of the facility, Bloomfield Highway is south of the site, and G Street is located west of the facility.

North of building prior to excavation

Previous Environmental Assessments

Prior site assessment activities have been performed at the Halliburton/Wellex Farmington facility. These included a report titled *Internal Environmental Assessment Report* prepared by Mr. Larry Sims dated August 3, 1993, an *Environmental Assessment Report* prepared by OVAC, Inc. dated August 4, 1993, an internal *Cleanup Report* prepared by Mr. Larry Sims dated August 20-31, 1995, and a *Site Investigation Report* prepared by Brown & Root Environmental dated October 30, 1997.

The findings of these assessments are summarized below.

Preliminary Environmental Assessment

Mr. Larry Sims of Halliburton conducted an internal environmental site assessment of the property during August 1993, at the request of the Halliburton Law Department. In this report Mr. Sims noted general oil spillage, an irrigation ditch, a radioactive storage silo, aboveground storage tanks, and an oil/water separator were present at the facility. At the time of the assessment, the separator contained oil and grit and appeared to be constructed of cinder block.

Environmental Assessment

OVAC, Inc. conducted a follow-up investigation on August 4, 1993. The findings of this investigation were presented in a report titled *Environmental Assessment Report*. OVAC stated that there were no significant leaks or spills visible around the separator or AST's, but the separator contained approximately 4 cubic yards of sludge. Eleven (11) soil samples were collected during the investigation in a grid pattern around the separator, and analyzed for concentrations of volatile organics, TPH, TCLP metals, and pH. These soil samples were collected from 3 feet below ground surface to 12 feet in depth. Groundwater was not encountered in any of the borings. Site lithology encountered in the borings consisted of cobbles and dark brown sand. The soil investigation indicated the presence of elevated TPH concentrations. Analytical data also indicated that toluene and 1,1-dichloroethane were present in soil samples collected at the site. OVAC recommended that approximately 80 cubic yards of contaminated soil be removed from the site.

Cleanup Activities

Mr. Sims conducted a follow-up visit to the facility to inspect the results of cleanup activities. Observations during the site visit were presented in the *Clean Up Report* dated August 28-31, 1995. In this report, Mr. Sims noted that the radioactive source silos on the west side of the building were cemented in place, and the silos on the north side of one building were removed. Other activities conducted during the site cleanup consisted of high pressure washing of walls, floors, and sumps of the maintenance area; removing a poly tank; cleaning and removing grit from the washrack sump; and removing all debris and weeds from the site. Mr. Sims also reported that the separator was constructed of cinder block walls with an earthen floor. During cleanup activities, the separator was removed and soils were excavated to a depth of 20 feet. Hydrocarbon contaminated soil was observed to be greater than 20 feet beneath the separator. Since the vertical extent of the impact could not be delineated due to equipment limitations, the soil was placed back in the excavation hole. The report indicated that off-site water wells in the area ranged from 8 feet to 35 feet deep.

Looking NE initial excavation showing dark brown sand and cobbles

Additional Site Investigation Activities

The New Mexico Energy, Minerals and Natural Resources Department (NMEMNR), Oil Conservation Division (OCD) requested that Halliburton conduct a site investigation to determine the nature and extent of hydrocarbon contamination around the separator. Brown & Root Environmental prepared a work plan, dated June 27, 1997, for the excavation and sampling of the impacted area. This work plan was approved by the OCD.

Brown & Root Environmental (BRE) details the findings of this investigation in the *Site Investigation Report* dated October 30, 1997. The investigation consisted of the construction of 6 trenches that reached a maximum depth

of 15 feet below ground surface due to the low cohesive strength of cobbly silty sands beneath the site. The sides of the excavations continually caved in so that greater depths could not be reached without endangering the operator.

Looking east at adjacent trailer park prior to remediation

Site elevation is 5,338 feet above mean sea level on a southwest trending slope approximately one mile north of the San Juan River. Sediment beneath the site consist of mixed alluvial sediment (sand, loam, cobbles). Groundwater was not encountered during the investigation.

Soil samples were collected at five foot intervals in the trenches, and one sample, exhibiting the highest organic vapor analyzer (OVA) reading, from each excavation was analyzed for concentrations of volatile organics (EPA 8260), semivolatile organics (EPA 8270), and target metals. The excavations uncovered petroleum contaminated soil, debris, black grease waste, and asphalt. Analytical results indicated that metals, 2-methylnaphthalene, naphthalene, phenanthrene, ethylbenzene, and xylenes were present in the soil samples. BRE recommended that contaminated source soil be excavated and removed from site. They also recommended that two monitor wells be installed at the facility to determine whether the groundwater had been impacted.

On January 27, 1998, an additional work plan was submitted to the OCD by BRE for groundwater investigation and soil removal at this facility. The work plan provided for the installation and sampling of three monitor wells and the removal of soils impacted by releases from the former separator. The work plan was approved by the OCD.

GROUNDWATER ASSESSMENT 2.0

ENTACT installed monitor wells MW-01, MW-02, and MW-04 at the facility from June 9, 1998 through June 12, 1998 prior to soil removal activities to assess the groundwater conditions beneath the site. These monitor wells were installed north, west, and southwest of the former separator area. Monitor well MW-03 was installed on July 14, 1998 downgradient of the eastern part of the excavation. This well was installed after soil removal activities were completed to ensure that the well construction was not undermined by the excavation activities. Although the Work Plan only required the installation of three monitor wells, an additional monitor well was installed for a more comprehensive assessment.

Monitor Well Installation

Due to the site lithology, monitor well borings were advanced using the ODEX drilling method which simultaneously installs casing as the well is advanced. Monitor well MW-01 was installed north of the existing building, near the northern limits of the former separator area. Monitor wells MW-02 and MW-03 were installed north of the existing building upgradient and downgradient of the former separator area, respectively. Monitor well MW-04 was installed west of the existing building, just south of the former separator area. Refer to Figure 3.0 for well locations and groundwater flow direction.

Installation of monitor well MW-01

Installation of monitor well MW-04

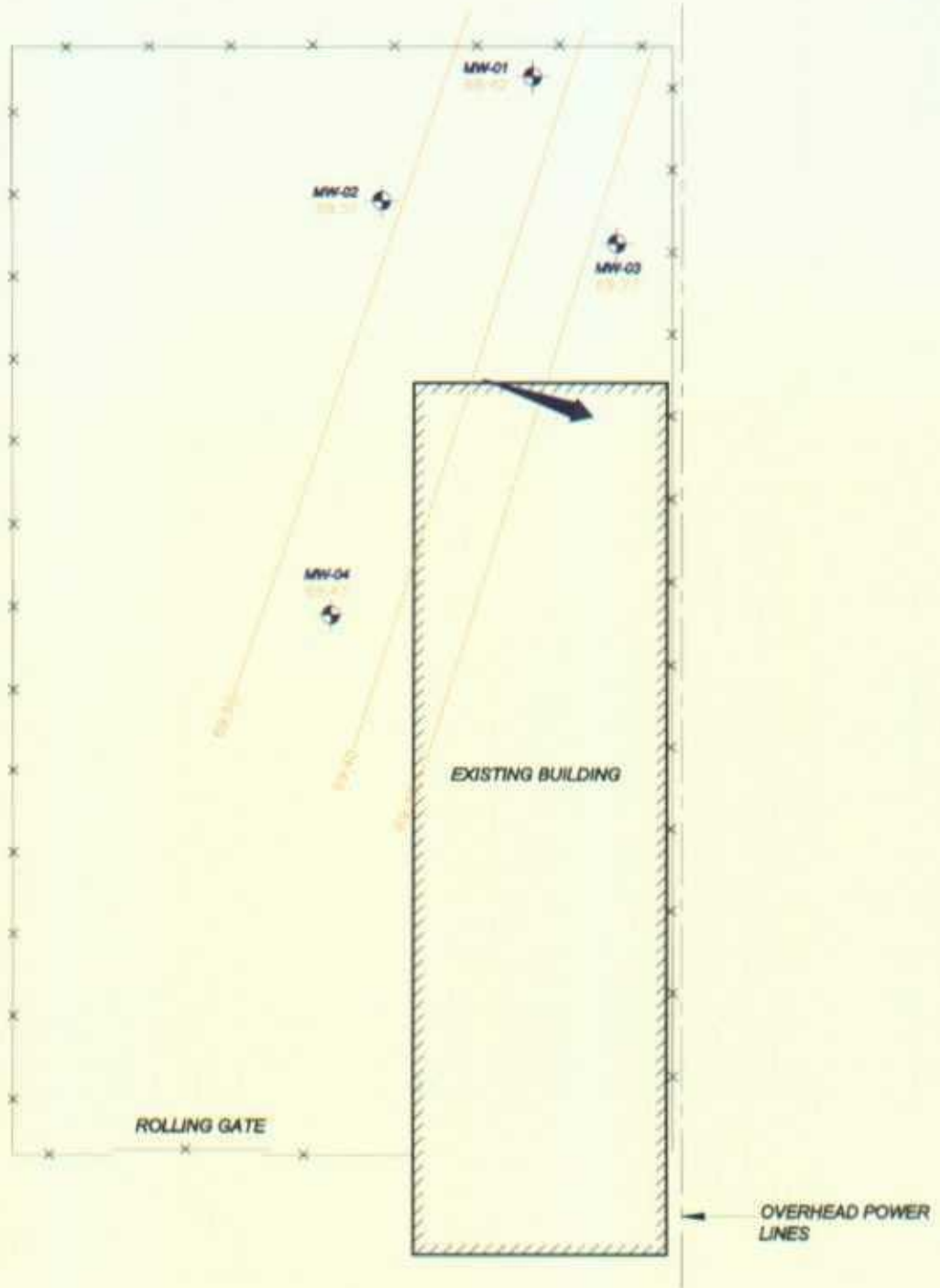
Monitor wells were installed to a maximum depth of 45 feet. The wells were completed with 15 to 20 feet of 2-inch diameter, 0.010-inch slot monitor well screen and 25 to 30 feet of 2-inch diameter PVC casing. A sand pack filter was placed between the borehole wall and monitor well screen to approximately 2 feet above the monitor well screen and PVC casing interface. A bentonite seal was placed from the top of the sand pack to approximately 10 feet below ground surface. Bentonite cement grout was then placed above the bentonite seal to ground surface. The wells were completed flush to ground surface with an 8-inch diameter bolt down steel cover set in a 3 foot diameter concrete pad. A lockable expandable cap was placed on top of the PVC casing. Boring logs are presented in Appendix C.
Top of casing elevations were surveyed to a site bench mark so that the groundwater gradient could be calculated. The groundwater gradient was determined to be southeast with a gradient of 0.00526 ft/ft on July 14, 1998.

Geology beneath the site consists of approximately 10 feet of a gravely loamy sand overlying at least 35 feet of cobbles, some up to 12 inches in diameter.

Groundwater Sampling

Following installation, the monitor wells were prepared for sampling. Depth to groundwater was first gauged with a water level indicator. The wells were then developed by pumping a minimum of three well bore volumes of groundwater to remove fine sediment that accumulated in the wellbore in the drilling operations. Prior to

GROUNDWATER GRADIENT MAP
7-14-98



LEGEND

- MONITORING WELL
- FENCE
- GRADIENT LINE
- GROUNDWATER FLOW DIRECTION

N

ENTACT

FIGURE:	DATE:
SITE PLAN	AUGUST 1998
SCALE:	DRAWN BY:
APPROX. 1" = 35'	ENTACT

FIGURE 3.0

sampling, the monitor wells were purged to ensure representative groundwater samples were collected. Conductivity, temperature, turbidity, and pH were monitored for stabilization as groundwater was removed from the wells. Groundwater samples were collected from each well with dedicated disposable bailers. All water samples were then shipped to a laboratory accredited by New Mexico for analyses of benzene, toluene, ethylbenzene, xylene (BTEX), volatile organics, semivolatile organics, and total petroleum hydrocarbon (TPH).

Groundwater Sample Results , mg/l

Sample	BTEX	TPH	1,2,4-Trimethylbenzene	Carbon Disulfide
MW-01-01	<0.002	<0.5	<0.005	<0.005
MW-02-01	<0.002	<0.5	<0.005	<0.005
MW-03-01	<0.0004	0.324	<0.005	<0.005
MWD-03-01	<0.0004	0.230	<0.005	<0.005
MW-04-01	<0.002	<0.5	<0.005	<0.005
Sump-01	<0.002	3.2	0.006	0.008
Word-01	<0.0004	<0.004	<0.005	<0.005
Reg. Limits	0.005	NA	NA	0.1

NA - standard not available

Groundwater sample results indicate that in monitor wells MW-01, MW-02, and MW-04 concentrations of BTEX, volatile organic compounds, semivolatile organic compounds, and TPH were below laboratory detection limits. Concentrations of BTEX were below laboratory detection limits in groundwater, and TPH was 0.324 mg/l in a groundwater sample collected from monitor well MW-03.

Off-site Water Well Sampling

During the project, a State of New Mexico District OCD representative indicated that the site should achieve closure with no further action on the groundwater if a groundwater sample obtained from a downgradient monitor well was not impacted. Therefore, a groundwater sample was collected from the nearest downgradient water well. A groundwater sample was collected at the adjacent trailer park from Ms. Carol Word's water well which is located downgradient of the former separator area. Since Ms. Ward is currently being supplied water by the City of Farmington, this well is not used for domestic or irrigation purposes. The well depth was 54 feet and groundwater depth was approximately 32 feet below the top of casing. Water was pumped from the well for approximately 10 minutes before samples were collected. This water sample was analyzed for concentrations of BTEX, volatile organics, semivolatile organics, and TPH. Results of the analyses indicated that concentrations of BTEX, volatile organics, semivolatile organics, and TPH were below laboratory detection limits.

Storm Drain Manhole Sampling

An additional water sample was collected with a disposable bailer from what appeared to be a storm drain or sanitary sewer manhole near the southwest corner of the existing building. Water depth in this 'vault' was approximately 0.5 feet, appeared to be stagnant, and exhibited no unusual odor. This water sample was analyzed for concentrations of BTEX, volatile organics, semivolatile organics, and TPH. Analytical results of this sample, SUMP-01, indicated that concentrations of TPH, 1,2,4-trimethylbenzene, and carbon disulfide were present at 3.2 mg/l, 0.006 mg/l, and 0.008 mg/l, respectively. Concentrations of BTEX in this water sample was below laboratory detection limits.

1, 2, 4-trimethylbenzene is produced during petroleum refining and is primarily used as a gasoline additive. Carbon disulfide is widely used in the manufacture of rayon fibers and cellulose. Since these materials were not found in groundwater or soil samples collected during site investigations and were not reported to have been previously used at the site, the water in the vault is likely to be residual storm water.

SOIL REMEDIATION ACTIVITIES 3.0

Soil excavation activities were initiated on July 6, 1998 in areas which had been delineated horizontally by the previous investigations. Excavation activities were guided by visual observations of the stained material. Materials were excavated and directly loaded for transportation to an off-site disposal facility. The excavation activities generated a total of 1,623 cubic yards of hydrocarbon impacted soil from the northeast corner of the property. The material consisted of clayey sand, sand, and cobbles.

Areas of light to dark gray hydrocarbon stained soil were evident throughout the excavation. Removal of hydrocarbon stained soil proceeded until an area approximately 40 feet by 40 feet by 27 feet deep was excavated. Very light gray hydrocarbon stained soil remained along the east wall adjacent to the trailer park property boundary and along the south wall adjacent to the building. In both cases, soil was removed to the maximum extent practicable without going offsite or endangering the building structure, respectively. A State of New Mexico District OCD representative, who was on site, concurred with the decision to stop excavation in both areas.

Hydrocarbon stained soil on west wall

Excavation of East wall

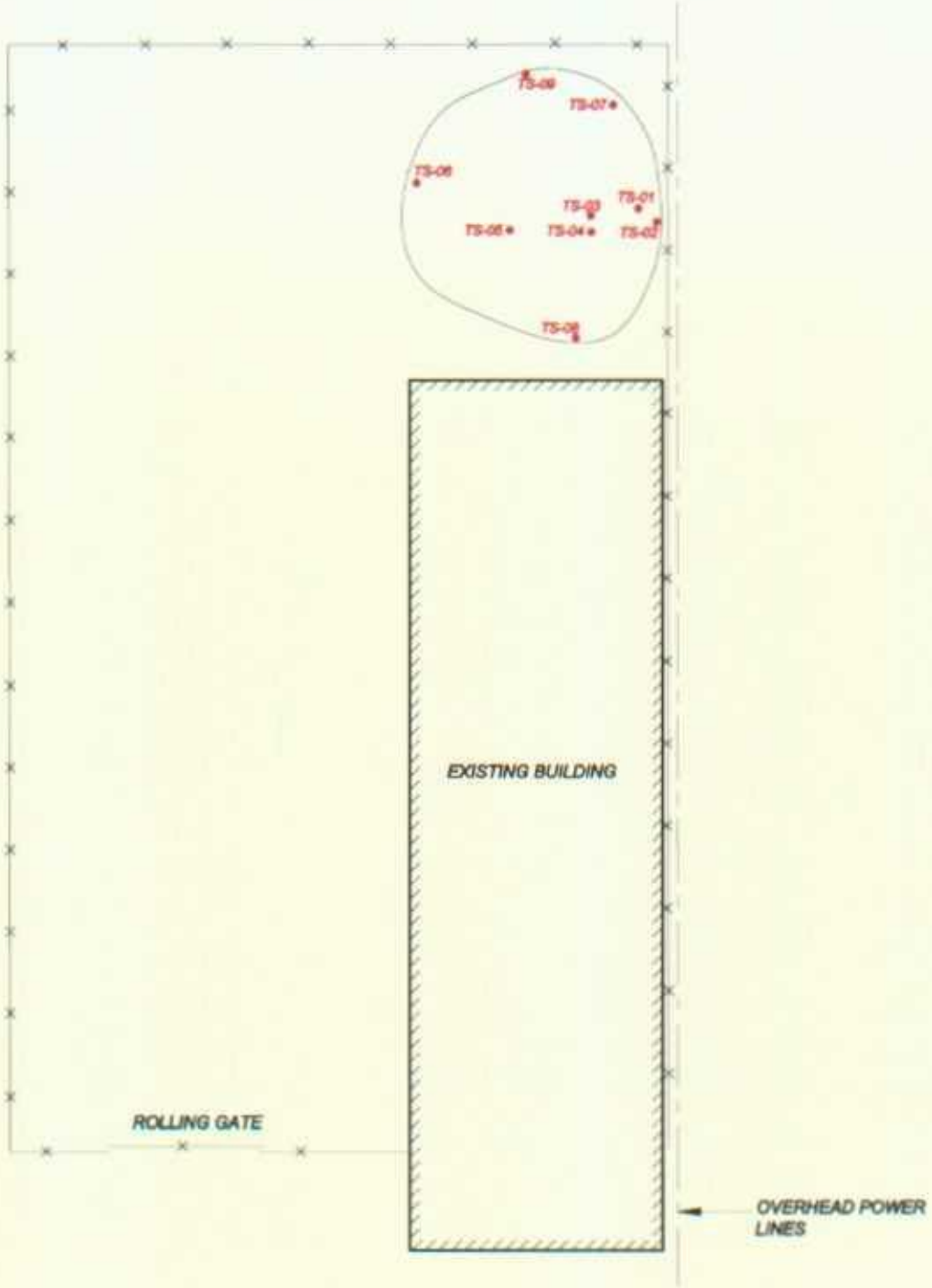
Overexcavation of hydrocarbon stained soil

Soil Sampling

Upon completion of the excavation activities on July 10, 1998, confirmation soil samples were collected from the excavated walls and floor for analyses of BTEX and TPH concentrations. Figure 2.0 illustrates confirmation soil sample locations.

See the following table and Appendix A for analytical results.

CONFIRMATION SOIL SAMPLE LOCATION MAP



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LEGEND

TS-06 SAMPLING POINTS

FENCE

ENTACT

FIGURE:	DATE:
SITE PLAN	AUGUST 1998
SCALE:	DRAWN BY:
APPROX. 1" = 35'	ENTACT

FIGURE 2.0

Soil Confirmation Sample Results, mg/kg							
Sample	**Benzene**	**Toluene**	**EB**	**p,m-xylene**	**O-xylene**	**BTEX**	**TPH**
East Wall TS-01	ND	ND	ND	0.190	0.227	0.417	1300
East Wall Overexcavation TS-02	ND	0.0831	ND	0.259	0.224	0.566	1400
East Floor TS-03	ND	ND	0.0613	0.282	0.357	0.700	1700
East Overexcavation TS-04	0.372	ND	ND	0.105	0.0621	0.539	389
Center Floor TS-05	ND	ND	ND	0.0476	ND	0.0476	3.6
West Floor TS-06	ND	ND	0.121	0.442	0.497	1.060	3390
North Wall East TS-07	0.417	ND	ND	ND	ND	0.417	1.2
South Wall TS-08	ND	ND	ND	ND	ND	ND	646
North Wall West TS-09	ND	ND	ND	ND	0.059	0.059	1260
Reg. Limit	10					50	100

EB = Ethylbenzene ND = Not Detected CONCENTRATIONS HIGHLIGHTED IN RED EXCEED REGULATORY LIMITS

Excavated material loaded onto truck for transport to landfarm

Looking East, cleanfill compacted and graded to ground surface

Waste Management

A total of 1,623 cubic yards of material was directly transported to the Envirotech Remediation Facility, Landfarm #2, in Hilltop, New Mexico. Appendix B contains copies of the Bill of Lading for each load.

Site Restoration

Following excavation, 1,645 cubic yards of imported backfill were used to bring the excavation up to surface grade. The imported backfill was installed in 3-foot lifts, wetted, and then compacted with either the trackhoe or loader. A sample was collected from the imported backfill and analyzed for concentrations of BTEX and TPH. Concentrations of each analyte were below laboratory detection limits.

CONCLUSIONS 4.0

Analytical data obtained from soil and groundwater samples collected during the excavation and assessment activities indicate the following when compared to OCD Guidelines and maximum concentration levels (MCL):

- Soils adjacent to a former oil/water separator area have been removed to the maximum extent practicable and properly disposed.
- Residual soil concentrations in the excavated area are well below ODC cleanup guidelines for benzene and total BTEX, and TPH concentrations ranged from 3390 mg/kg to 1.2 mg/kg.
- The excavated area has been restored.
- Groundwater flow is from the northwest to the southeast and depth to groundwater ranged from 29.98 feet to 30.59 feet below ground surface.
- Groundwater concentrations in all of the monitor wells were below laboratory detection limits for BTEX, and all but one of the monitor well was below laboratory detection limits for TPH.
- Groundwater concentration of TPH in monitor well MW-03 was 0.324 mg/l.
- Concentrations of BTEX and TPH were below laboratory detection limits in groundwater samples collected from a downgradient water well.

Based upon the following site observations and assessment findings, no further action is anticipated at this former Wellex site.

APPENDIX A

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July 27, 1998

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Submitted: 1 Soil/6 Waters

Site: Farmington, NM
Project: D543

LABORATORY REPORT: 98EN2317

BTEX - EPA Method 8020						
Lab No.	Client Description	Benzene	Toluene	Ethyl Benzene	Xylenes	Units
3	Backfill-01	bdl	bdl	bdl	bdl	ppm(mg/kg)
Detection Limit		0.02	0.02	0.02	0.02	ppm(mg/kg)
bdl - below detection limit						

Total Petroleum Hydrocarbons - EPA Method 8015				
Lab No.	Client Description	Results	Detection Limits	Units
2	Ward-01	bdl	0.004	ppm(mg/L)
5	MW-03-01	0.324	0.004	ppm(mg/L)
7	MWD-03-01	0.230	0.004	ppm(mg/L)
bdl - below detection limit				

Total Petroleum Hydrocarbons - EPA Method 8015				
Lab No.	Client Description	Results	Detection Limits	Units
3	Backfill-01	bdl	0.02	ppm(mg/kg)
bdl - below detection limit				

Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Lab Number: 1		Client Description: Ward-01	
Organic Compounds	Results	Detection Limits	Units
Benzene	bdl	0.4	ppb(µg/L)
Bromodichloromethane	bdl	0.4	ppb(µg/L)
Bromoform	bdl	0.4	ppb(µg/L)
Bromomethane	bdl	0.4	ppb(µg/L)
Carbon tetrachloride	bdl	0.4	ppb(µg/L)
Chlorobenzene	bdl	0.4	ppb(µg/L)
Chloroethane	bdl	0.4	ppb(µg/L)
2-Chloroethylvinyl ether	bdl	0.4	ppb(µg/L)
Chloroform	bdl	0.4	ppb(µg/L)
Chloromethane	bdl	0.4	ppb(µg/L)
Dibromochloromethane	bdl	0.4	ppb(µg/L)
1,2-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,3-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,4-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,1-Dichloroethane	bdl	0.4	ppb(µg/L)
1,2-Dichloroethane	bdl	0.4	ppb(µg/L)
1,1-Dichloroethylene	bdl	0.4	ppb(µg/L)
1,2-Dichloroethylene-trans	bdl	0.4	ppb(µg/L)
1,2-Dichloropropane	bdl	0.4	ppb(µg/L)
1,3-Dichloropropene-cis	bdl	0.4	ppb(µg/L)
1,3-Dichloropropene-trans	bdl	0.4	ppb(µg/L)
Ethyl benzene	bdl	0.4	ppb(µg/L)
Methylene chloride	bdl	0.4	ppb(µg/L)
Methyl ethyl ketone	bdl	0.4	ppb(µg/L)
1,1,2,2-Tetrachloroethane	bdl	0.4	ppb(µg/L)
Tetrachloroethylene	bdl	0.4	ppb(µg/L)

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Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Lab Number: 1		Client Description: Ward-01	
Organic Compounds	Results	Detection Limits	Units
Toluene	bdl	0.4	ppb(µg/L)
1,1,1-Trichloroethane	bdl	0.4	ppb(µg/L)
1,1,2-Trichloroethane	bdl	0.4	ppb(µg/L)
Trichloroethylene	bdl	0.4	ppb(µg/L)
Trichlorofluoromethane	bdl	0.4	ppb(µg/L)
Vinyl chloride	bdl	0.4	ppb(µg/L)
o-Xylene	bdl	0.4	ppb(µg/L)
p-Xylene	bdl	0.4	ppb(µg/L)
bdl - below detection limit			

Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Lab Number: 4		Client Description: MW-03-01	
Organic Compounds	Results	Detection Limits	Units
Benzene	bdl	0.4	ppb(µg/L)
Bromodichloromethane	bdl	0.4	ppb(µg/L)
Bromoform	bdl	0.4	ppb(µg/L)
Bromomethane	bdl	0.4	ppb(µg/L)
Carbon tetrachloride	bdl	0.4	ppb(µg/L)
Chlorobenzene	bdl	0.4	ppb(µg/L)
Chloroethane	bdl	0.4	ppb(µg/L)
2-Chloroethylvinyl ether	bdl	0.4	ppb(µg/L)
Chloroform	bdl	0.4	ppb(µg/L)
Chloromethane	bdl	0.4	ppb(µg/L)
Dibromochloromethane	bdl	0.4	ppb(µg/L)
1,2-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,3-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,4-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,1-Dichloroethane	bdl	0.4	ppb(µg/L)
1,2-Dichloroethane	bdl	0.4	ppb(µg/L)
1,1-Dichloroethylene	bdl	0.4	ppb(µg/L)
1,2-Dichloroethylene-trans	bdl	0.4	ppb(µg/L)
1,2-Dichloropropane	bdl	0.4	ppb(µg/L)
1,3-Dichloropropene-cis	bdl	0.4	ppb(µg/L)
1,3-Dichloropropene-trans	bdl	0.4	ppb(µg/L)
Ethyl benzene	bdl	0.4	ppb(µg/L)
Methylene chloride	bdl	0.4	ppb(µg/L)
Methyl ethyl ketone	bdl	0.4	ppb(µg/L)
1,1,2,2-Tetrachloroethane	bdl	0.4	ppb(µg/L)
Tetrachloroethylene	bdl	0.4	ppb(µg/L)

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Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Lab Number: 4	Client Description: MW-03-01		
Organic Compounds	Results	Detection Limits	Units
Toluene	bdl	0.4	ppb(µg/L)
1,1,1-Trichloroethane	bdl	0.4	ppb(µg/L)
1,1,2-Trichloroethane	bdl	0.4	ppb(µg/L)
Trichloroethylene	bdl	0.4	ppb(µg/L)
Trichlorofluoromethane	bdl	0.4	ppb(µg/L)
Vinyl chloride	bdl	0.4	ppb(µg/L)
o-Xylene	bdl	0.4	ppb(µg/L)
p-Xylene	bdl	0.4	ppb(µg/L)
bdl - below detection limit			

Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Lab Number: 6		Client Description: MWD-03-01	
Organic Compounds	Results	Detection Limits	Units
Benzene	bdl	0.4	ppb(µg/L)
Bromodichloromethane	bdl	0.4	ppb(µg/L)
Bromoform	bdl	0.4	ppb(µg/L)
Bromomethane	bdl	0.4	ppb(µg/L)
Carbon tetrachloride	bdl	0.4	ppb(µg/L)
Chlorobenzene	bdl	0.4	ppb(µg/L)
Chloroethane	bdl	0.4	ppb(µg/L)
2-Chloroethylvinyl ether	bdl	0.4	ppb(µg/L)
Chloroform	bdl	0.4	ppb(µg/L)
Chloromethane	bdl	0.4	ppb(µg/L)
Dibromochloromethane	bdl	0.4	ppb(µg/L)
1,2-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,3-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,4-Dichlorobenzene	bdl	0.4	ppb(µg/L)
1,1-Dichloroethane	bdl	0.4	ppb(µg/L)
1,2-Dichloroethane	bdl	0.4	ppb(µg/L)
1,1-Dichloroethylene	bdl	0.4	ppb(µg/L)
1,2-Dichloroethylene-trans	bdl	0.4	ppb(µg/L)
1,2-Dichloropropane	bdl	0.4	ppb(µg/L)
1,3-Dichloropropene-cis	bdl	0.4	ppb(µg/L)
1,3-Dichloropropene-trans	bdl	0.4	ppb(µg/L)
Ethyl benzene	bdl	0.4	ppb(µg/L)
Methylene chloride	bdl	0.4	ppb(µg/L)
Methyl ethyl ketone	bdl	0.4	ppb(µg/L)
1,1,2,2-Tetrachloroethane	bdl	0.4	ppb(µg/L)
Tetrachloroethylene	bdl	0.4	ppb(µg/L)

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Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Lab Number: 6		Client Description: MWD-03-01	
Organic Compounds	Results	Detection Limits	Units
Toluene	bdl	0.4	ppb(µg/L)
1,1,1-Trichloroethane	bdl	0.4	ppb(µg/L)
1,1,2-Trichloroethane	bdl	0.4	ppb(µg/L)
Trichloroethylene	bdl	0.4	ppb(µg/L)
Trichlorofluoromethane	bdl	0.4	ppb(µg/L)
Vinyl chloride	bdl	0.4	ppb(µg/L)
o-Xylene	bdl	0.4	ppb(µg/L)
p-Xylene	bdl	0.4	ppb(µg/L)
bdl - below detection limit			

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 2		Client Description: Ward-01	
Organic Compounds	Results	Detection Limits	Units
Phenol	bdl	0.002	ppm(mg/L)
bis(2-Chloroethyl)ether	bdl	0.002	ppm(mg/L)
2-Chlorophenol	bdl	0.002	ppm(mg/L)
1,3-Dichlorobenzene	bdl	0.002	ppm(mg/L)
1,4-Dichlorobenzene	bdl	0.002	ppm(mg/L)
1,2-Dichlorobenzene	bdl	0.002	ppm(mg/L)
2-Methylphenol	bdl	0.002	ppm(mg/L)
2,2'oxybis(1-Chloropropane)	bdl	0.002	ppm(mg/L)
4-Methylphenol	bdl	0.002	ppm(mg/L)
N-Nitroso-di-n-propylamine	bdl	0.002	ppm(mg/L)
Hexachloroethane	bdl	0.002	ppm(mg/L)
Nitrobenzene	bdl	0.002	ppm(mg/L)
Isophorone	bdl	0.002	ppm(mg/L)
2-Nitrophenol	bdl	0.002	ppm(mg/L)
2,4-Dimethylphenol	bdl	0.002	ppm(mg/L)
bis(2-Chloroethoxy)methane	bdl	0.002	ppm(mg/L)
2,4-Dichlorophenol	bdl	0.002	ppm(mg/L)
1,2,4-Trichlorobenzene	bdl	0.002	ppm(mg/L)
Naphthalene	bdl	0.002	ppm(mg/L)
4-Chloroaniline	bdl	0.002	ppm(mg/L)
Hexachlorocyclobutadiene	bdl	0.002	ppm(mg/L)
4-Chloro-3-methylphenol	bdl	0.002	ppm(mg/L)
2-Methylnaphthalene	bdl	0.002	ppm(mg/L)
Hexachloropentadiene	bdl	0.002	ppm(mg/L)
2,4,6-Trichlorophenol	bdl	0.002	ppm(mg/L)
2,4,5-Trichlorophenol	bdl	0.002	ppm(mg/L)
2-Chloronaphthalene	bdl	0.002	ppm(mg/L)

continued on next page

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 2	Client Description: Ward-01		
Organic Compounds	Results	Detection Limits	Units
2-Nitroaniline	bdl	0.002	ppm(mg/L)
Dimethylphthalate	bdl	0.002	ppm(mg/L)
Acenaphthylene	bdl	0.002	ppm(mg/L)
2,6-Dinitrotoluene	bdl	0.002	ppm(mg/L)
3-Nitroaniline	bdl	0.002	ppm(mg/L)
2,6-Dinitrotoluene	bdl	0.002	ppm(mg/L)
3-Nitroaniline	bdl	0.002	ppm(mg/L)
Acenaphthene	bdl	0.002	ppm(mg/L)
2,4-Dinitrophenol	bdl	0.002	ppm(mg/L)
4-Nitrophenol	bdl	0.002	ppm(mg/L)
Dibenzofuran	bdl	0.002	ppm(mg/L)
2,4-Dinitrotoluene	bdl	0.002	ppm(mg/L)
Diethylphthalate	bdl	0.002	ppm(mg/L)
4-Chlorophenyl-phenylether	bdl	0.002	ppm(mg/L)
Fluorene	bdl	0.002	ppm(mg/L)
4-Nitroaniline	bdl	0.002	ppm(mg/L)
4,6-Dinitro-2-methylphenol	bdl	0.002	ppm(mg/L)
N-Nitrosodiphenylamine	bdl	0.002	ppm(mg/L)
4-Bromophenyl-phenylether	bdl	0.002	ppm(mg/L)
Hexachlorobenzene	bdl	0.002	ppm(mg/L)
Pentachlorophenol	bdl	0.002	ppm(mg/L)
Phenanthrene	bdl	0.002	ppm(mg/L)
Anthracene	bdl	0.002	ppm(mg/L)
Carbazole	bdl	0.002	ppm(mg/L)
Di-n-butylphthalate	bdl	0.002	ppm(mg/L)
Fluoranthene	bdl	0.002	ppm(mg/L)
Pyrene	bdl	0.002	ppm(mg/L)
Butylbenzylphthalate	bdl	0.002	ppm(mg/L)

continued on next page

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 2		Client Description: Ward-01	
Organic Compounds	Results	Detection Limits	Units
3,3'-Dichlorobenzidine	bdl	0.002	ppm(mg/L)
Benzo(a)anthracene	bdl	0.002	ppm(mg/L)
Chrysene	bdl	0.002	ppm(mg/L)
bis(2-Ethylhexyl)phthalate	bdl	0.002	ppm(mg/L)
Di-n-octylphthalate	bdl	0.002	ppm(mg/L)
Benzo(b)fluoranthene	bdl	0.002	ppm(mg/L)
Benzo(k)fluoranthene	bdl	0.002	ppm(mg/L)
Benzo(a)pyrene	bdl	0.002	ppm(mg/L)
Indeno(1,2,3-cd)pyrene	bdl	0.002	ppm(mg/L)
Dibenz(a,h)anthracene	bdl	0.002	ppm(mg/L)
Benzo(g,h,i)perylene	bdl	0.002	ppm(mg/L)
bdl - below detection limit			

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 5		Client Description: MW-03-01	
Organic Compounds	Results	Detection Limits	Units
Phenol	bdl	0.002	ppm(mg/L)
bis(2-Chloroethyl)ether	bdl	0.002	ppm(mg/L)
2-Chlorophenol	bdl	0.002	ppm(mg/L)
1,3-Dichlorobenzene	bdl	0.002	ppm(mg/L)
1,4-Dichlorobenzene	bdl	0.002	ppm(mg/L)
1,2-Dichlorobenzene	bdl	0.002	ppm(mg/L)
2-Methylphenol	bdl	0.002	ppm(mg/L)
2,2'oxybis(1-Chloropropane)	bdl	0.002	ppm(mg/L)
4-Methylphenol	bdl	0.002	ppm(mg/L)
N-Nitroso-di-n-propylamine	bdl	0.002	ppm(mg/L)
Hexachloroethane	bdl	0.002	ppm(mg/L)
Nitrobenzene	bdl	0.002	ppm(mg/L)
Isophorone	bdl	0.002	ppm(mg/L)
2-Nitrophenol	bdl	0.002	ppm(mg/L)
2,4-Dimethylphenol	bdl	0.002	ppm(mg/L)
bis(2-Chloroethoxy)methane	bdl	0.002	ppm(mg/L)
2,4-Dichlorophenol	bdl	0.002	ppm(mg/L)
1,2,4-Trichlorobenzene	bdl	0.002	ppm(mg/L)
Naphthalene	bdl	0.002	ppm(mg/L)
4-Chloroaniline	bdl	0.002	ppm(mg/L)
Hexachlorocyclobutadiene	bdl	0.002	ppm(mg/L)
4-Chloro-3-methylphenol	bdl	0.002	ppm(mg/L)
2-Methylnaphthalene	bdl	0.002	ppm(mg/L)
Hexachloropentadiene	bdl	0.002	ppm(mg/L)
2,4,6-Trichlorophenol	bdl	0.002	ppm(mg/L)
2,4,5-Trichlorophenol	bdl	0.002	ppm(mg/L)
2-Chloronaphthalene	bdl	0.002	ppm(mg/L)

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Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 5	Client Description: MW-03-01		
Organic Compounds	Results	Detection Limits	Units
2-Nitroaniline	bdl	0.002	ppm(mg/L)
Dimethylphthalate	bdl	0.002	ppm(mg/L)
Acenaphthylene	bdl	0.002	ppm(mg/L)
2,6-Dinitrotoluene	bdl	0.002	ppm(mg/L)
3-Nitroaniline	bdl	0.002	ppm(mg/L)
2,6-Dinitrotoluene	bdl	0.002	ppm(mg/L)
3-Nitroaniline	bdl	0.002	ppm(mg/L)
Acenaphthene	bdl	0.002	ppm(mg/L)
2,4-Dinitrophenol	bdl	0.002	ppm(mg/L)
4-Nitrophenol	bdl	0.002	ppm(mg/L)
Dibenzofuran	bdl	0.002	ppm(mg/L)
2,4-Dinitrotoluene	bdl	0.002	ppm(mg/L)
Diethylphthalate	bdl	0.002	ppm(mg/L)
4-Chlorophenyl-phenylether	bdl	0.002	ppm(mg/L)
Fluorene	bdl	0.002	ppm(mg/L)
4-Nitroaniline	bdl	0.002	ppm(mg/L)
4,6-Dinitro-2-methylphenol	bdl	0.002	ppm(mg/L)
N-Nitrosodiphenylamine	bdl	0.002	ppm(mg/L)
4-Bromophenyl-phenylether	bdl	0.002	ppm(mg/L)
Hexachlorobenzene	bdl	0.002	ppm(mg/L)
Pentachlorophenol	bdl	0.002	ppm(mg/L)
Phenanthrene	bdl	0.002	ppm(mg/L)
Anthracene	bdl	0.002	ppm(mg/L)
Carbazole	bdl	0.002	ppm(mg/L)
Di-n-butylphthalate	bdl	0.002	ppm(mg/L)
Fluoranthene	bdl	0.002	ppm(mg/L)
Pyrene	bdl	0.002	ppm(mg/L)
Butylbenzylphthalate	bdl	0.002	ppm(mg/L)

continued on next page

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 5		Client Description: MW-03-01	
Organic Compounds	Results	Detection Limits	Units
3,3'-Dichlorobenzidine	bdl	0.002	ppm(mg/L)
Benzo(a)anthracene	bdl	0.002	ppm(mg/L)
Chrysene	bdl	0.002	ppm(mg/L)
bis(2-Ethylhexyl)phthalate	bdl	0.002	ppm(mg/L)
Di-n-octylphthalate	bdl	0.002	ppm(mg/L)
Benzo(b)fluoranthene	bdl	0.002	ppm(mg/L)
Benzo(k)fluoranthene	bdl	0.002	ppm(mg/L)
Benzo(a)pyrene	bdl	0.002	ppm(mg/L)
Indeno(1,2,3-cd)pyrene	bdl	0.002	ppm(mg/L)
Dibenz(a,h)anthracene	bdl	0.002	ppm(mg/L)
Benzo(g,h,i)perylene	bdl	0.002	ppm(mg/L)
bdl - below detection limit			

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 7		Client Description: MWD-03-01	
Organic Compounds	Results	Detection Limits	Units
Phenol	bdl	0.002	ppm(mg/L)
bis(2-Chloroethyl)ether	bdl	0.002	ppm(mg/L)
2-Chlorophenol	bdl	0.002	ppm(mg/L)
1,3-Dichlorobenzene	bdl	0.002	ppm(mg/L)
1,4-Dichlorobenzene	bdl	0.002	ppm(mg/L)
1,2-Dichlorobenzene	bdl	0.002	ppm(mg/L)
2-Methylphenol	bdl	0.002	ppm(mg/L)
2,2'oxybis(1-Chloropropane)	bdl	0.002	ppm(mg/L)
4-Methylphenol	bdl	0.002	ppm(mg/L)
N-Nitroso-di-n-propylamine	bdl	0.002	ppm(mg/L)
Hexachloroethane	bdl	0.002	ppm(mg/L)
Nitrobenzene	bdl	0.002	ppm(mg/L)
Isophorone	bdl	0.002	ppm(mg/L)
2-Nitrophenol	bdl	0.002	ppm(mg/L)
2,4-Dimethylphenol	bdl	0.002	ppm(mg/L)
bis(2-Chloroethoxy)methane	bdl	0.002	ppm(mg/L)
2,4-Dichlorophenol	bdl	0.002	ppm(mg/L)
1,2,4-Trichlorobenzene	bdl	0.002	ppm(mg/L)
Naphthalene	bdl	0.002	ppm(mg/L)
4-Chloroaniline	bdl	0.002	ppm(mg/L)
Hexachlorocyclobutadiene	bdl	0.002	ppm(mg/L)
4-Chloro-3-methylphenol	bdl	0.002	ppm(mg/L)
2-Methylnaphthalene	bdl	0.002	ppm(mg/L)
Hexachloropentadiene	bdl	0.002	ppm(mg/L)
2,4,6-Trichlorophenol	bdl	0.002	ppm(mg/L)
2,4,5-Trichlorophenol	bdl	0.002	ppm(mg/L)
2-Chloronaphthalene	bdl	0.002	ppm(mg/L)

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Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 7		Client Description: MWD-03-01	
Organic Compounds	Results	Detection Limits	Units
2-Nitroaniline	bdl	0.002	ppm(mg/L)
Dimethylphthalate	bdl	0.002	ppm(mg/L)
Acenaphthylene	bdl	0.002	ppm(mg/L)
2,6-Dinitrotoluene	bdl	0.002	ppm(mg/L)
3-Nitroaniline	bdl	0.002	ppm(mg/L)
2,6-Dinitrotoluene	bdl	0.002	ppm(mg/L)
3-Nitroaniline	bdl	0.002	ppm(mg/L)
Acenaphthene	bdl	0.002	ppm(mg/L)
2,4-Dinitrophenol	bdl	0.002	ppm(mg/L)
4-Nitrophenol	bdl	0.002	ppm(mg/L)
Dibenzofuran	bdl	0.002	ppm(mg/L)
2,4-Dinitrotoluene	bdl	0.002	ppm(mg/L)
Diethylphthalate	bdl	0.002	ppm(mg/L)
4-Chlorophenyl-phenylether	bdl	0.002	ppm(mg/L)
Fluorene	bdl	0.002	ppm(mg/L)
4-Nitroaniline	bdl	0.002	ppm(mg/L)
4,6-Dinitro-2-methylphenol	bdl	0.002	ppm(mg/L)
N-Nitrosodiphenylamine	bdl	0.002	ppm(mg/L)
4-Bromophenyl-phenylether	bdl	0.002	ppm(mg/L)
Hexachlorobenzene	bdl	0.002	ppm(mg/L)
Pentachlorophenol	bdl	0.002	ppm(mg/L)
Phenanthrene	bdl	0.002	ppm(mg/L)
Anthracene	bdl	0.002	ppm(mg/L)
Carbazole	bdl	0.002	ppm(mg/L)
Di-n-butylphthalate	bdl	0.002	ppm(mg/L)
Fluoranthene	bdl	0.002	ppm(mg/L)
Pyrene	bdl	0.002	ppm(mg/L)
Butylbenzylphthalate	bdl	0.002	ppm(mg/L)

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Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Lab Number: 7		Client Description: MWD-03-01	
Organic Compounds	Results	Detection Limits	Units
3,3'-Dichlorobenzidine	bdl	0.002	ppm(mg/L)
Benzo(a)anthracene	bdl	0.002	ppm(mg/L)
Chrysene	bdl	0.002	ppm(mg/L)
bis(2-Ethylhexyl)phthalate	bdl	0.002	ppm(mg/L)
Di-n-octylphthalate	bdl	0.002	ppm(mg/L)
Benzo(b)fluoranthene	bdl	0.002	ppm(mg/L)
Benzo(k)fluoranthene	bdl	0.002	ppm(mg/L)
Benzo(a)pyrene	bdl	0.002	ppm(mg/L)
Indeno(1,2,3-cd)pyrene	bdl	0.002	ppm(mg/L)
Dibenz(a,h)anthracene	bdl	0.002	ppm(mg/L)
Benzo(g,h,i)perylene	bdl	0.002	ppm(mg/L)
bdl - below detection limit			

Joe Sikes, Director, Quality Control
AIHA Accreditation No: 363
AIHA ELLAP Accredited
//98-2317.doc /am

ARMSTRONG FORENSIC LABORATORY, INC.

QA/QC ATTACHMENT REPORT: 98EN2317

BTEX			
Analyst	KW	Analysis Method	EPA 8020
Analysis Date	7/22/98	Extraction Method	EPA 5035
Extraction Technician	KW	Matrix Spike Recovery %	104.
Extraction Date	7/22/98	Duplicate RPD %	3.
QC Date	7/22/98	Method Blank µg	<0.002
QC Batch ID	G2198-1	LCS %	103.

TPH - Water			
Analyst	TH	Analysis Method	EPA 8015
Analysis Date	7/22/98	Extraction Method	EPA 5030
Extraction Technician	KW	Matrix Spike Recovery %	121.
Extraction Date	7/22/98	Duplicate RPD %	19.
QC Date	7/22/98	Method Blank µg	<0.002
QC Batch ID	G2198-1	LCS %	108.

TPH - Soil			
Analyst	TH	Analysis Method	EPA 8015
Analysis Date	7/22/98	Extraction Method	EPA 5035
Extraction Technician	KW	Matrix Spike Recovery %	104.
Extraction Date	7/22/98	Duplicate RPD %	0
QC Date	7/22/98	Method Blank µg	<0.002
QC Batch ID	G2198-1	LCS %	108.

Priority Pollutant Volatile Organic Compounds - EPA Method 8260B			
Analyst	CK	Extraction Method	EPA 5030B
Analysis Date	7/23/98	Matrix Spike Recovery %	85.
Extraction Technician	CK	Duplicate RPD %	1.
Extraction Date	7/22/98	LCS %	91.
QC Date	7/23/98	QC Batch ID	N2317LCS
Organic Compound		**Method Blank µg**	
Benzene		<0.002	
Bromodichloromethane		<0.002	
Bromoform		<0.002	
Bromomethane		<0.002	
Carbon tetrachloride		<0.002	
Chlorobenzene		<0.002	
Chloroethane		<0.002	
2-Chloroethylvinyl ether		<0.002	
Chloroform		<0.002	
Chloromethane		<0.002	
Dibromochloromethane		<0.002	
1,2-Dichlorobenzene		<0.002	
1,3-Dichlorobenzene		<0.002	
1,4-Dichlorobenzene		<0.002	
1,1-Dichloroethane		<0.002	
1,2-Dichloroethane		<0.002	
1,1-Dichloroethylene		<0.002	
1,2-Dichloroethylene-trans		<0.002	
1,2-Dichloropropane		<0.002	
1,3-Dichloropropene-cis		<0.002	
1,3-Dichloropropene-trans		<0.002	
Ethyl benzene		<0.002	

Priority Pollutant Volatile Organic Compounds - EPA Method 8260B	
QC Batch ID: N2317LCS	
Organic Compound	**Method Blank μg**
Methylene chloride	0.004
Methyl ethyl ketone	<0.002
1,1,2,2-Tetrachloroethane	<0.002
Tetrachloroethylene	<0.002
Toluene	<0.002
1,1,1-Trichloroethane	<0.002
1,1,2-Trichloroethane	<0.002
Trichloroethylene	<0.002
Trichlorofluoromethane	<0.002
Vinyl chloride	<0.002
o-Xylene	<0.002
p-Xylene	<0.002

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C			
Analyst	CK	Analysis Date	7/24/98
QC Sample Number	N2316LCS	QC Date	7/24/98
Matrix Spike Recovery %	102.	Extraction Date	7/16/98
Sample Duplicate RPD %	13.	Blank Spike Recovery %	94.
Organic Compound		**Blank (μg)**	
Phenol		<0.5	
bis(2-Chloroethyl)ether		<0.5	
2-Chlorophenol		<0.5	
1,3-Dichlorobenzene		<0.5	
1,4-Dichlorobenzene		<0.5	
1,2-Dichlorobenzene		<0.5	
2-Methylphenol		<0.5	
2,2'oxybis(1-Chloropropane)		<0.5	
4-Methylphenol		<0.5	
N-Nitroso-di-n-propylamine		<0.5	
Hexachloroethane		<0.5	
Nitrobenzene		<0.5	
Isophorone		<0.5	
2-Nitrophenol		<0.5	
2,4-Dimethylphenol		<0.5	
bis(2-Chloroethoxy)methane		<0.5	
2,4-Dichlorophenol		<0.5	
1,2,4-Trichlorobenzene		<0.5	
Naphthalene		<0.5	
4-Chloroaniline		<0.5	
Hexachlorocyclobutadiene		<0.5	
4-Chloro-3-methylphenol		<0.5	
2-Methylnaphthalene		<0.5	

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C (Continued)			
Analyst	CK	Analysis Date	7/24/98
QC Sample Number	N2316LCS	QC Date	7/24/98
Matrix Spike Recovery %	102.	Extraction Date	7/16/98
Sample Duplicate RPD %	13.	Blank Spike Recovery %	94.
Organic Compound		**Blank (μg)**	
Hexachloropentadiene		<0.5	
2,4,6-Trichlorophenol		<0.5	
2,4,5-Trichlorophenol		<0.5	
2-Chloronaphthalene		<0.5	
2-Nitroaniline		<0.5	
Dimethylphthalate		<0.5	
Acenaphthylene		<0.5	
2,6-Dinitrotoluene		<0.5	
3-Nitroaniline		<0.5	
2,6-Dinitrotoluene		<0.5	
3-Nitroaniline		<0.5	
Acenaphthene		<0.5	
2,4-Dinitrophenol		<0.5	
4-Nitrophenol		<0.5	
Dibenzofuran		<0.5	
2,4-Dinitrotoluene		<0.5	
Diethylphthalate		<0.5	
4-Chlorophenyl-phenylether		<0.5	
Fluorene		<0.5	
4-Nitroaniline		<0.5	
4,6-Dinitro-2-methylphenol		<0.5	
N-Nitrosodiphenylamine		<0.5	
4-Bromophenyl-phenylether		<0.5	
Hexachlorobenzene		<0.5	

Priority Pollutant Semi-Volatile Organic Compounds - EPA Method 8270C (Continued)			
Analyst	CK	Analysis Date	7/24/98
QC Sample Number	N2316LCS	QC Date	7/24/98
Matrix Spike Recovery %	102.	Extraction Date	7/16/98
Sample Duplicate RPD %	13.	Blank Spike Recovery %	94.
Organic Compound		**Blank (µg)**	
Pentachlorophenol		<0.5	
Phenanthrene		<0.5	
Anthracene		<0.5	
Carbazole		<0.5	
Di-n-butylphthalate		<0.5	
Fluoranthene		<0.5	
Pyrene		<0.5	
Butylbenzylphthalate		<0.5	
3,3'-Dichlorobenzidine		<0.5	
Benzo(a)anthracene		<0.5	
Chrysene		<0.5	
bis(2-Ethylhexyl)phthalate		<0.5	
Di-n-octylphthalate		<0.5	
Benzo(b)fluoranthene		<0.5	
Benzo(k)fluoranthene		<0.5	
Benzo(a)pyrene		<0.5	
Indeno(1,2,3-cd)pyrene		<0.5	
Dibenz(a,h)anthracene		<0.5	
Benzo(g,h,i)perylene		<0.5	

CHAIN OF CUSTODY RECORD

ENTACT
environmental tactics in waste management
1616 Corporate Court #150 • Irving, Texas 75038
972.580.1323 • Fax 972.550.7464

7-16-98
98EN2317

PROJECT NAME/LOCATION Farmington, NM
PROJECT NUMBER D543
PROJECT MANAGER M. COX

SAMPLED BY

MARTY COX (PRINT NAME)

Marty Cox SIGNATURE

DATE	TIME	SAMPLE ID	DESCRIPTION	MATRIX	GRAB	COMP	PRESERVATIVE: HCl	NaOH	HNO_3	NONE	OTHER	ANALYSES: Volatile organics	Semivolatile organics	TPH - 8015	BTEX - 8020	COMMENTS
7-13	0930	WARD-01	offsite private well	W	✓		✓					✓				3 VOA
7-13	0930	WARD-01	" "	W	✓					✓			✓	✓		3-1 l
7-13	1150	Backfill-01		S	✓					✓				✓	✓	1-4 oz
7-15	1035	MW-03-01		W	✓		✓					✓				3 VOA
7-15	1035	MW-03-01		W	✓					✓			✓	✓		3-1 l
7-15	1055	MWD-03-01		W	✓		✓					✓				3 VOA
7-15	1055	MWD-03-01		W	✓					✓			✓	✓		3-1 l

TURN AROUND TIME

- PRIORITY ☐
- PRIORITY 3 or 100% ☐
- PRIORITY 2 or 50% ☐
- PRIORITY 1 or Standard ☒

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: _____

TPH (418.1), BTEX (8020), VOLATILES (8240), SEMI-VOLATILES (8270), TOTAL LEAD (6010), SPLP LEAD (7421), TCLP LEAD (6010), PCB (8080), PAH (8100)

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Marty Cox	7-15-98	1545					

METHOD OF SHIPMENT: Fed ex

REMARKS:

CORE LAB

ENVIRONMENTAL TESTING SERVICES

June 30, 1998

Mr. Marty Cox
Entact
1616 Corporate Court #150
Fort Worth, Texas 75038

Dear Mr. Cox:

Attached is the analytical report for Core Laboratories' job number 982058 samples 1-4. The 4-nitrophenol RPD results for the spiked blank (SB) and spiked blank duplicate (SBD) associated with sample number 4 (Sump-01) analyzed on 6/17/98 were outside the QC limits although the percent recoveries for both compounds in the SB and SBD were acceptable. Sample number 4 was re-extracted past holding time on 6/23/98 and analyzed on 6/23/98 with acceptable QC. 4-Nitrophenol was not detected in this sample. Please feel free to contact me if I can be of further assistance.

Sincerely,

Charles Sassine
Laboratory Supervisor

:cs

Core Laboratories, Inc.
1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, Fax (512) 289-2471

CORE LABORATORIES

ANALYTICAL REPORT

JOB NUMBER: 982058

Prepared For:

Entact
1616 Corporate Court #150
Irving, TX 75038

Attention: Marty Cox

Date: 06/29/98

C. Meador

Signature

6/30/98

Date

Name: Chip Meador

Title: Regional Manager

1733 N. Padre Island Drive
Corpus Christi, TX 78403

PHONE: 512/289-2673
FAX: 512/289-2471

CORE LABORATORIES

SAMPLE INFORMATION
Date: 06/29/98

Job Number.: 982058
Customer ..: Entact
Attn.....: Marty Cox

Project Number.....: 99999995
Customer Project ID....: FARMINGTON D536
Project Description....: Walk in Projects

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
982058-1	MW-01-01	Water	06/12/98	17:10	06/15/98	09:50
982058-2	MW-02-01	Water	06/12/98	16:00	06/15/98	09:50
982058-3	MW-04-01	Water	06/12/98	15:20	06/15/98	09:50
982058-4	SUMP-01	Water	06/13/98	08:50	06/15/98	09:50

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-01-01
Date Sampled.....: 06/12/98
Time Sampled.....: 17:10
Sample Matrix.....: Water

Laboratory Sample ID: 982058-1
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 8015 mod	TEPH Extraction	Complete			06/19/98	*in
SW-846 3520C	Extraction (Continuous Liq/Liq)					
	Continuous Liquid-Liquid Extraction	Complete			06/15/98	dnw
SW-846 8270C	Semivolatile Organics					
	Acenaphthene	ND	10.	ug/L	06/19/98	gef
	Acenaphthylene	ND	10.	ug/L	06/19/98	gef
	Aniline	ND	20.	ug/L	06/19/98	gef
	Anthracene	ND	10.	ug/L	06/19/98	gef
	Benzo(a)anthracene	ND	10.	ug/L	06/19/98	gef
	Benzo(b)fluoranthene	ND	10.	ug/L	06/19/98	gef
	Benzo(k)fluoranthene	ND	10.	ug/L	06/19/98	gef
	Benzo(ghi)perylene	ND	10.	ug/L	06/19/98	gef
	Benzo(a)pyrene	ND	10.	ug/L	06/19/98	gef
	Benzyl alcohol	ND	20.	ug/L	06/19/98	gef
	Bis(2-chloroethoxy)methane	ND	10.	ug/L	06/19/98	gef
	Bis(2-chloroethyl)ether	ND	10.	ug/L	06/19/98	gef
	Bis(2-chloroisopropyl)ether	ND	10.	ug/L	06/19/98	gef
	Bis(2-ethylhexyl)phthalate	ND	10.	ug/L	06/19/98	gef
	4-Bromophenyl phenyl ether	ND	10.	ug/L	06/19/98	gef
	Butyl benzyl phthalate	ND	10.	ug/L	06/19/98	gef
	4-Chloroaniline	ND	20.	ug/L	06/19/98	gef
	4-Chloro-3-methylphenol	ND	20.	ug/L	06/19/98	gef
	2-Chloronaphthalene	ND	10.	ug/L	06/19/98	gef
	2-Chlorophenol	ND	10.	ug/L	06/19/98	gef
	4-Chlorophenyl phenyl ether	ND	10.	ug/L	06/19/98	gef
	Chrysene	ND	10.	ug/L	06/19/98	gef
	Dibenzo(a,h)anthracene	ND	10.	ug/L	06/19/98	gef
	Dibenzofuran	ND	10.	ug/L	06/19/98	gef
	1,2-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	1,3-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	1,4-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	3,3-Dichlorobenzidine	ND	20.	ug/L	06/19/98	gef
	Diethyl phthalate	ND	10.	ug/L	06/19/98	gef
	Dimethyl phthalate	ND	10.	ug/L	06/19/98	gef
	2,4-Dimethylphenol	ND	10.	ug/L	06/19/98	gef
	Di-n-butyl phthalate	ND	10.	ug/L	06/19/98	gef
	Di-n-octyl phthalate	ND	10.	ug/L	06/19/98	gef
	2,4-Dichlorophenol	ND	10.	ug/L	06/19/98	gef
	4,6-Dinitro-2-methylphenol	ND	50.	ug/L	06/19/98	gef
	2,4-Dinitrophenol	ND	50.	ug/L	06/19/98	gef
	2,4-Dinitrotoluene	ND	10.	ug/L	06/19/98	gef
	2,6-Dinitrotoluene	ND	10.	ug/L	06/19/98	gef
	Fluoranthene	ND	10.	ug/L	06/19/98	gef
	Fluorene	ND	10.	ug/L	06/19/98	gef
	Hexachlorobenzene	ND	10.	ug/L	06/19/98	gef
	Hexachlorobutadiene	ND	10.	ug/L	06/19/98	gef

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-01-01
Date Sampled.....: 06/12/98
Time Sampled.....: 17:10
Sample Matrix.....: Water

Laboratory Sample ID: 982058-1
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorocyclopentadiene	ND	10.	ug/L	06/19/98	gef
	Hexachloroethane	ND	10.	ug/L	06/19/98	gef
	Indeno(1,2,3-cd)pyrene	ND	10.	ug/L	06/19/98	gef
	Isophorone	ND	10.	ug/L	06/19/98	gef
	2-Methylnaphthalene	ND	10.	ug/L	06/19/98	gef
	2-Methylphenol (o-cresol)	ND	10.	ug/L	06/19/98	gef
	3 & 4 Methylphenol (m&p cresol)	ND	10.	ug/L	06/19/98	gef
	Naphthalene	ND	10.	ug/L	06/19/98	gef
	o-Nitroaniline	ND	50.	ug/L	06/19/98	gef
	m-Nitroaniline	ND	50.	ug/L	06/19/98	gef
	p-Nitroaniline	ND	20.	ug/L	06/19/98	gef
	Nitrobenzene	ND	10.	ug/L	06/19/98	gef
	2-Nitrophenol	ND	10.	ug/L	06/19/98	gef
	4-Nitrophenol	ND	50.	ug/L	06/19/98	gef
	n-Nitrosodi-n-propylamine	ND	10.	ug/L	06/19/98	gef
	n-Nitrosodiphenylamine	ND	10.	ug/L	06/19/98	gef
	Pentachlorophenol	ND	10.	ug/L	06/19/98	gef
	Phenanthrene	ND	10.	ug/L	06/19/98	gef
	Phenol	ND	10.	ug/L	06/19/98	gef
	Pyrene	ND	10.	ug/L	06/19/98	gef
	Pyridine	ND	10.	ug/L	06/19/98	gef
	1,2,4-Trichlorobenzene	ND	10.	ug/L	06/19/98	gef
	2,4,5-Trichlorophenol	ND	10.	ug/L	06/19/98	gef
	2,4,6-Trichlorophenol	ND	10.	ug/L	06/19/98	gef
SW-846 8260B	Volatile Organics					
	Acetone	ND	100	ug/L	06/16/98	krm
	Acetonitrile	ND	5	ug/L	06/16/98	krm
	Acrolein	ND	100	ug/L	06/16/98	krm
	Acrylonitrile	ND	10	ug/L	06/16/98	krm
	Bromodichloromethane	ND	5	ug/L	06/16/98	krm
	Bromoform	ND	5	ug/L	06/16/98	krm
	Bromomethane	ND	5	ug/L	06/16/98	krm
	Carbon Disulfide	ND	5	ug/L	06/16/98	krm
	Carbon Tetrachloride	ND	5	ug/L	06/16/98	krm
	Chlorobenzene	ND	5	ug/L	06/16/98	krm
	Chloroethane	ND	5	ug/L	06/16/98	krm
	2-Chloroethylvinyl Ether	ND	5	ug/L	06/16/98	krm
	Chloroform	ND	5	ug/L	06/16/98	krm
	Chloromethane	ND	5	ug/L	06/16/98	krm
	Dibromochloromethane	ND	5	ug/L	06/16/98	krm
	Dibromomethane	ND	5	ug/L	06/16/98	krm
	1,2-Dibromoethane (EDB)	ND	5	ug/L	06/16/98	krm
	Dichlorodifluoromethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,2-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethene	ND	5	ug/L	06/16/98	krm
	cis-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm
	trans-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-01-01
Date Sampled.....: 06/12/98
Time Sampled.....: 17:10
Sample Matrix.....: Water

Laboratory Sample ID: 982058-1
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,3-Dichloropropane	ND	5	ug/L	06/16/98	krm
	2,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloropropene	ND	5	ug/L	06/16/98	krm
	cis-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	trans-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	1,4-Dioxane	ND	100	ug/L	06/16/98	krm
	Ethyl Acetate	ND	5	ug/L	06/16/98	krm
	Ethyl Ether (Diethyl Ether)	ND	5	ug/L	06/16/98	krm
	Ethyl Methacrylate	ND	5	ug/L	06/16/98	krm
	2-Hexanone	ND	5	ug/L	06/16/98	krm
	Iodomethane (Methyl Iodide)	ND	5	ug/L	06/16/98	krm
	Methylene Chloride (Dichloromethane)	ND	50	ug/L	06/16/98	krm
	1-Methylpyrrolidine (NMP)	ND	50000	mg/L	06/16/98	krm
	Methyl Ethyl Ketone (2-Butanone)	ND	10	ug/L	06/16/98	krm
	4-Methyl-2-Pentanone (MIBK)	ND	5	ug/L	06/16/98	krm
	Methyl Methacrylate	ND	5	ug/L	06/16/98	krm
	tert-Butyl Methyl Ether (MTBE)	ND	5	ug/L	06/16/98	krm
	2-Nitropropane	ND	50	ug/L	06/16/98	krm
	Styrene	ND	5	ug/L	06/16/98	krm
	1,1,2,2-Tetrachloroethane	ND	5	ug/L	06/16/98	krm
	Tetrachloroethene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichlorobenzene	ND	5	ug/L	06/16/98	krm
	1,1,1-Trichloroethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloroethane	ND	5	ug/L	06/16/98	krm
	Trichloroethene	ND	5	ug/L	06/16/98	krm
	Trichlorofluoromethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	ug/L	06/16/98	krm
	1,2,4-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,3,5-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichloropropane	ND	5	ug/L	06/16/98	krm
	Vinyl Acetate	ND	5	ug/L	06/16/98	krm
	Vinyl Chloride (Chloroethene)	ND	5	ug/L	06/16/98	krm
SW-846 8260B	Volatile Organics					
	Benzene	ND	2	ug/L	06/16/98	krm
	Ethylbenzene	ND	2	ug/L	06/16/98	krm
	Toluene	ND	2	ug/L	06/16/98	krm
	Xylenes (total)	ND	2	ug/L	06/16/98	krm
SW-846 8015 Mod	Total Extractable Petroleum Hydrocarbons					
	TEPH - Diesel Range Organics	ND	0.5	mg/L	06/20/98	*in

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-02-01
Date Sampled.....: 06/12/98
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 982058-2
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 8015 mod	TEPH Extraction	Complete			06/19/98	*in
SW-846 3520C	Extraction (Continuous Liq/Liq)					
	Continuous Liquid-Liquid Extraction	Complete			06/15/98	dnw
SW-846 8270C	Semivolatile Organics					
	Acenaphthene	ND	10.	ug/L	06/19/98	gef
	Acenaphthylene	ND	10.	ug/L	06/19/98	gef
	Aniline	ND	20.	ug/L	06/19/98	gef
	Anthracene	ND	10.	ug/L	06/19/98	gef
	Benzo(a)anthracene	ND	10.	ug/L	06/19/98	gef
	Benzo(b)fluoranthene	ND	10.	ug/L	06/19/98	gef
	Benzo(k)fluoranthene	ND	10.	ug/L	06/19/98	gef
	Benzo(ghi)perylene	ND	10.	ug/L	06/19/98	gef
	Benzo(a)pyrene	ND	10.	ug/L	06/19/98	gef
	Benzyl alcohol	ND	20.	ug/L	06/19/98	gef
	Bis(2-chloroethoxy)methane	ND	10.	ug/L	06/19/98	gef
	Bis(2-chloroethyl)ether	ND	10.	ug/L	06/19/98	gef
	Bis(2-chloroisopropyl)ether	ND	10.	ug/L	06/19/98	gef
	Bis(2-ethylhexyl)phthalate	ND	10.	ug/L	06/19/98	gef
	4-Bromophenyl phenyl ether	ND	10.	ug/L	06/19/98	gef
	Butyl benzyl phthalate	ND	10.	ug/L	06/19/98	gef
	4-Chloroaniline	ND	20.	ug/L	06/19/98	gef
	4-Chloro-3-methylphenol	ND	20.	ug/L	06/19/98	gef
	2-Chloronaphthalene	ND	10.	ug/L	06/19/98	gef
	2-Chlorophenol	ND	10.	ug/L	06/19/98	gef
	4-Chlorophenyl phenyl ether	ND	10.	ug/L	06/19/98	gef
	Chrysene	ND	10.	ug/L	06/19/98	gef
	Dibenzo(a,h)anthracene	ND	10.	ug/L	06/19/98	gef
	Dibenzofuran	ND	10.	ug/L	06/19/98	gef
	1,2-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	1,3-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	1,4-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	3,3-Dichlorobenzidine	ND	20.	ug/L	06/19/98	gef
	Diethyl phthalate	ND	10.	ug/L	06/19/98	gef
	Dimethyl phthalate	ND	10.	ug/L	06/19/98	gef
	2,4-Dimethylphenol	ND	10.	ug/L	06/19/98	gef
	Di-n-butyl phthalate	ND	10.	ug/L	06/19/98	gef
	Di-n-octyl phthalate	ND	10.	ug/L	06/19/98	gef
	2,4-Dichlorophenol	ND	10.	ug/L	06/19/98	gef
	4,6-Dinitro-2-methylphenol	ND	50.	ug/L	06/19/98	gef
	2,4-Dinitrophenol	ND	50.	ug/L	06/19/98	gef
	2,4-Dinitrotoluene	ND	10.	ug/L	06/19/98	gef
	2,6-Dinitrotoluene	ND	10.	ug/L	06/19/98	gef
	Fluoranthene	ND	10.	ug/L	06/19/98	gef
	Fluorene	ND	10.	ug/L	06/19/98	gef
	Hexachlorobenzene	ND	10.	ug/L	06/19/98	gef
	Hexachlorobutadiene	ND	10.	ug/L	06/19/98	gef

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-02-01
Date Sampled.....: 06/12/98
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 982058-2
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorocyclopentadiene	ND	10.	ug/L	06/19/98	gef
	Hexachloroethane	ND	10.	ug/L	06/19/98	gef
	Indeno(1,2,3-cd)pyrene	ND	10.	ug/L	06/19/98	gef
	Isophorone	ND	10.	ug/L	06/19/98	gef
	2-Methylnaphthalene	ND	10.	ug/L	06/19/98	gef
	2-Methylphenol (o-cresol)	ND	10.	ug/L	06/19/98	gef
	3 & 4 Methylphenol (m&p cresol)	ND	10.	ug/L	06/19/98	gef
	Naphthalene	ND	10.	ug/L	06/19/98	gef
	o-Nitroaniline	ND	50.	ug/L	06/19/98	gef
	m-Nitroaniline	ND	50.	ug/L	06/19/98	gef
	p-Nitroaniline	ND	20.	ug/L	06/19/98	gef
	Nitrobenzene	ND	10.	ug/L	06/19/98	gef
	2-Nitrophenol	ND	10.	ug/L	06/19/98	gef
	4-Nitrophenol	ND	50.	ug/L	06/19/98	gef
	n-Nitrosodi-n-propylamine	ND	10.	ug/L	06/19/98	gef
	n-Nitrosodiphenylamine	ND	10.	ug/L	06/19/98	gef
	Pentachlorophenol	ND	10.	ug/L	06/19/98	gef
	Phenanthrene	ND	10.	ug/L	06/19/98	gef
	Phenol	ND	10.	ug/L	06/19/98	gef
	Pyrene	ND	10.	ug/L	06/19/98	gef
	Pyridine	ND	10.	ug/L	06/19/98	gef
	1,2,4-Trichlorobenzene	ND	10.	ug/L	06/19/98	gef
	2,4,5-Trichlorophenol	ND	10.	ug/L	06/19/98	gef
	2,4,6-Trichlorophenol	ND	10.	ug/L	06/19/98	gef
SW-846 8260B	Volatile Organics					
	Acetone	ND	100	ug/L	06/16/98	krm
	Acetonitrile	ND	5	ug/L	06/16/98	krm
	Acrolein	ND	100	ug/L	06/16/98	krm
	Acrylonitrile	ND	10	ug/L	06/16/98	krm
	Bromodichloromethane	ND	5	ug/L	06/16/98	krm
	Bromoform	ND	5	ug/L	06/16/98	krm
	Bromomethane	ND	5	ug/L	06/16/98	krm
	Carbon Disulfide	ND	5	ug/L	06/16/98	krm
	Carbon Tetrachloride	ND	5	ug/L	06/16/98	krm
	Chlorobenzene	ND	5	ug/L	06/16/98	krm
	Chloroethane	ND	5	ug/L	06/16/98	krm
	2-Chloroethylvinyl Ether	ND	5	ug/L	06/16/98	krm
	Chloroform	ND	5	ug/L	06/16/98	krm
	Chloromethane	ND	5	ug/L	06/16/98	krm
	Dibromochloromethane	ND	5	ug/L	06/16/98	krm
	Dibromomethane	ND	5	ug/L	06/16/98	krm
	1,2-Dibromoethane (EDB)	ND	5	ug/L	06/16/98	krm
	Dichlorodifluoromethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,2-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethene	ND	5	ug/L	06/16/98	krm
	cis-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm
	trans-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-02-01
Date Sampled.....: 06/12/98
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 982058-2
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,3-Dichloropropane	ND	5	ug/L	06/16/98	krm
	2,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloropropene	ND	5	ug/L	06/16/98	krm
	cis-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	trans-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	1,4-Dioxane	ND	100	ug/L	06/16/98	krm
	Ethyl Acetate	ND	5	ug/L	06/16/98	krm
	Ethyl Ether (Diethyl Ether)	ND	5	ug/L	06/16/98	krm
	Ethyl Methacrylate	ND	5	ug/L	06/16/98	krm
	2-Hexanone	ND	5	ug/L	06/16/98	krm
	Iodomethane (Methyl Iodide)	ND	5	ug/L	06/16/98	krm
	Methylene Chloride (Dichloromethane)	ND	50	ug/L	06/16/98	krm
	1-Methylpyrrolidine (NMP)	ND	50000	mg/L	06/16/98	krm
	Methyl Ethyl Ketone (2-Butanone)	ND	10	ug/L	06/16/98	krm
	4-Methyl-2-Pentanone (MIBK)	ND	5	ug/L	06/16/98	krm
	Methyl Methacrylate	ND	5	ug/L	06/16/98	krm
	tert-Butyl Methyl Ether (MTBE)	ND	5	ug/L	06/16/98	krm
	2-Nitropropane	ND	50	ug/L	06/16/98	krm
	Styrene	ND	5	ug/L	06/16/98	krm
	1,1,2,2-Tetrachloroethane	ND	5	ug/L	06/16/98	krm
	Tetrachloroethene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichlorobenzene	ND	5	ug/L	06/16/98	krm
	1,1,1-Trichloroethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloroethane	ND	5	ug/L	06/16/98	krm
	Trichloroethene	ND	5	ug/L	06/16/98	krm
	Trichlorofluoromethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	ug/L	06/16/98	krm
	1,2,4-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,3,5-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichloropropane	ND	5	ug/L	06/16/98	krm
	Vinyl Acetate	ND	5	ug/L	06/16/98	krm
	Vinyl Chloride (Chloroethene)	ND	5	ug/L	06/16/98	krm
SW-846 8260B	Volatile Organics					
	Benzene	ND	2	ug/L	06/16/98	krm
	Ethylbenzene	ND	2	ug/L	06/16/98	krm
	Toluene	ND	2	ug/L	06/16/98	krm
	Xylenes (total)	ND	2	ug/L	06/16/98	krm
SW-846 8015 Mod	Total Extractable Petroleum Hydrocarbons					
	TEPH - Diesel Range Organics	ND	0.5	mg/L	06/20/98	*in

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-04-01
Date Sampled.....: 06/12/98
Time Sampled.....: 15:20
Sample Matrix.....: Water

Laboratory Sample ID: 982058-3
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 8015 mod	TEPH Extraction	Complete			06/19/98	*in
SW-846 3520C	Extraction (Continuous Liq/Liq)					
	Continuous Liquid-Liquid Extraction	Complete			06/15/98	dnw
SW-846 8270C	Semivolatile Organics					
	Acenaphthene	ND	10.	ug/L	06/19/98	gef
	Acenaphthylene	ND	10.	ug/L	06/19/98	gef
	Aniline	ND	20.	ug/L	06/19/98	gef
	Anthracene	ND	10.	ug/L	06/19/98	gef
	Benzo(a)anthracene	ND	10.	ug/L	06/19/98	gef
	Benzo(b)fluoranthene	ND	10.	ug/L	06/19/98	gef
	Benzo(k)fluoranthene	ND	10.	ug/L	06/19/98	gef
	Benzo(ghi)perylene	ND	10.	ug/L	06/19/98	gef
	Benzo(a)pyrene	ND	10.	ug/L	06/19/98	gef
	Benzyl alcohol	ND	20.	ug/L	06/19/98	gef
	Bis(2-chloroethoxy)methane	ND	10.	ug/L	06/19/98	gef
	Bis(2-chloroethyl)ether	ND	10.	ug/L	06/19/98	gef
	Bis(2-chloroisopropyl)ether	ND	10.	ug/L	06/19/98	gef
	Bis(2-ethylhexyl)phthalate	ND	10.	ug/L	06/19/98	gef
	4-Bromophenyl phenyl ether	ND	10.	ug/L	06/19/98	gef
	Butyl benzyl phthalate	ND	10.	ug/L	06/19/98	gef
	4-Chloroaniline	ND	20.	ug/L	06/19/98	gef
	4-Chloro-3-methylphenol	ND	20.	ug/L	06/19/98	gef
	2-Chloronaphthalene	ND	10.	ug/L	06/19/98	gef
	2-Chlorophenol	ND	10.	ug/L	06/19/98	gef
	4-Chlorophenyl phenyl ether	ND	10.	ug/L	06/19/98	gef
	Chrysene	ND	10.	ug/L	06/19/98	gef
	Dibenzo(a,h)anthracene	ND	10.	ug/L	06/19/98	gef
	Dibenzofuran	ND	10.	ug/L	06/19/98	gef
	1,2-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	1,3-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	1,4-Dichlorobenzene	ND	10.	ug/L	06/19/98	gef
	3,3-Dichlorobenzidine	ND	20.	ug/L	06/19/98	gef
	Diethyl phthalate	ND	10.	ug/L	06/19/98	gef
	Dimethyl phthalate	ND	10.	ug/L	06/19/98	gef
	2,4-Dimethylphenol	ND	10.	ug/L	06/19/98	gef
	Di-n-butyl phthalate	ND	10.	ug/L	06/19/98	gef
	Di-n-octyl phthalate	ND	10.	ug/L	06/19/98	gef
	2,4-Dichlorophenol	ND	10.	ug/L	06/19/98	gef
	4,6-Dinitro-2-methylphenol	ND	50.	ug/L	06/19/98	gef
	2,4-Dinitrophenol	ND	50.	ug/L	06/19/98	gef
	2,4-Dinitrotoluene	ND	10.	ug/L	06/19/98	gef
	2,6-Dinitrotoluene	ND	10.	ug/L	06/19/98	gef
	Fluoranthene	ND	10.	ug/L	06/19/98	gef
	Fluorene	ND	10.	ug/L	06/19/98	gef
	Hexachlorobenzene	ND	10.	ug/L	06/19/98	gef
	Hexachlorobutadiene	ND	10.	ug/L	06/19/98	gef

CORE LAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-04-01
Date Sampled......: 06/12/98
Time Sampled......: 15:20
Sample Matrix.....: Water

Laboratory Sample ID: 982058-3
Date Received.......: 06/15/98
Time Received.......: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorocyclopentadiene	ND	10.	ug/L	06/19/98	gef
	Hexachloroethane	ND	10.	ug/L	06/19/98	gef
	Indeno(1,2,3-cd)pyrene	ND	10.	ug/L	06/19/98	gef
	Isophorone	ND	10.	ug/L	06/19/98	gef
	2-Methylnaphthalene	ND	10.	ug/L	06/19/98	gef
	2-Methylphenol (o-cresol)	ND	10.	ug/L	06/19/98	gef
	3 & 4 Methylphenol (m&p cresol)	ND	10.	ug/L	06/19/98	gef
	Naphthalene	ND	10.	ug/L	06/19/98	gef
	o-Nitroaniline	ND	50.	ug/L	06/19/98	gef
	m-Nitroaniline	ND	50.	ug/L	06/19/98	gef
	p-Nitroaniline	ND	20.	ug/L	06/19/98	gef
	Nitrobenzene	ND	10.	ug/L	06/19/98	gef
	2-Nitrophenol	ND	10.	ug/L	06/19/98	gef
	4-Nitrophenol	ND	50.	ug/L	06/19/98	gef
	n-Nitrosodi-n-propylamine	ND	10.	ug/L	06/19/98	gef
	n-Nitrosodiphenylamine	ND	10.	ug/L	06/19/98	gef
	Pentachlorophenol	ND	10.	ug/L	06/19/98	gef
	Phenanthrene	ND	10.	ug/L	06/19/98	gef
	Phenol	ND	10.	ug/L	06/19/98	gef
	Pyrene	ND	10.	ug/L	06/19/98	gef
	Pyridine	ND	10.	ug/L	06/19/98	gef
	1,2,4-Trichlorobenzene	ND	10.	ug/L	06/19/98	gef
	2,4,5-Trichlorophenol	ND	10.	ug/L	06/19/98	gef
	2,4,6-Trichlorophenol	ND	10.	ug/L	06/19/98	gef
SW-846 8260B	Volatile Organics					
	Acetone	ND	100	ug/L	06/16/98	krm
	Acetonitrile	ND	5	ug/L	06/16/98	krm
	Acrolein	ND	100	ug/L	06/16/98	krm
	Acrylonitrile	ND	10	ug/L	06/16/98	krm
	Bromodichloromethane	ND	5	ug/L	06/16/98	krm
	Bromoform	ND	5	ug/L	06/16/98	krm
	Bromomethane	ND	5	ug/L	06/16/98	krm
	Carbon Disulfide	ND	5	ug/L	06/16/98	krm
	Carbon Tetrachloride	ND	5	ug/L	06/16/98	krm
	Chlorobenzene	ND	5	ug/L	06/16/98	krm
	Chloroethane	ND	5	ug/L	06/16/98	krm
	2-Chloroethylvinyl Ether	ND	5	ug/L	06/16/98	krm
	Chloroform	ND	5	ug/L	06/16/98	krm
	Chloromethane	ND	5	ug/L	06/16/98	krm
	Dibromochloromethane	ND	5	ug/L	06/16/98	krm
	Dibromomethane	ND	5	ug/L	06/16/98	krm
	1,2-Dibromoethane (EDB)	ND	5	ug/L	06/16/98	krm
	Dichlorodifluoromethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,2-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethene	ND	5	ug/L	06/16/98	krm
	cis-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm
	trans-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: MW-04-01
Date Sampled.....: 06/12/98
Time Sampled.....: 15:20
Sample Matrix.....: Water

Laboratory Sample ID: 982058-3
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,3-Dichloropropane	ND	5	ug/L	06/16/98	krm
	2,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloropropene	ND	5	ug/L	06/16/98	krm
	cis-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	trans-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	1,4-Dioxane	ND	100	ug/L	06/16/98	krm
	Ethyl Acetate	ND	5	ug/L	06/16/98	krm
	Ethyl Ether (Diethyl Ether)	ND	5	ug/L	06/16/98	krm
	Ethyl Methacrylate	ND	5	ug/L	06/16/98	krm
	2-Hexanone	ND	5	ug/L	06/16/98	krm
	Iodomethane (Methyl Iodide)	ND	5	ug/L	06/16/98	krm
	Methylene Chloride (Dichloromethane)	ND	50	ug/L	06/16/98	krm
	1-Methylpyrrolidine (NMP)	ND	50000	mg/L	06/16/98	krm
	Methyl Ethyl Ketone (2-Butanone)	ND	10	ug/L	06/16/98	krm
	4-Methyl-2-Pentanone (MIBK)	ND	5	ug/L	06/16/98	krm
	Methyl Methacrylate	ND	5	ug/L	06/16/98	krm
	tert-Butyl Methyl Ether (MTBE)	ND	5	ug/L	06/16/98	krm
	2-Nitropropane	ND	50	ug/L	06/16/98	krm
	Styrene	ND	5	ug/L	06/16/98	krm
	1,1,2,2-Tetrachloroethane	ND	5	ug/L	06/16/98	krm
	Tetrachloroethene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichlorobenzene	ND	5	ug/L	06/16/98	krm
	1,1,1-Trichloroethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloroethane	ND	5	ug/L	06/16/98	krm
	Trichloroethene	ND	5	ug/L	06/16/98	krm
	Trichlorofluoromethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	ug/L	06/16/98	krm
	1,2,4-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,3,5-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichloropropane	ND	5	ug/L	06/16/98	krm
	Vinyl Acetate	ND	5	ug/L	06/16/98	krm
	Vinyl Chloride (Chloroethene)	ND	5	ug/L	06/16/98	krm
SW-846 8260B	Volatile Organics					
	Benzene	ND	2	ug/L	06/16/98	krm
	Ethylbenzene	ND	2	ug/L	06/16/98	krm
	Toluene	ND	2	ug/L	06/16/98	krm
	Xylenes (total)	ND	2	ug/L	06/16/98	krm
SW-846 8015 Mod	Total Extractable Petroleum Hydrocarbons					
	TEPH - Diesel Range Organics	ND	0.5	mg/L	06/20/98	*in

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: SUMP-01
Date Sampled.....: 06/13/98
Time Sampled.....: 08:50
Sample Matrix.....: Water

Laboratory Sample ID: 982058-4
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 8015 mod	TEPH Extraction	Complete			06/19/98	*in
SW-846 3510C	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			06/23/98	maz
SW-846 8270C	Semivolatile Organics					
	Acenaphthene	ND	10.	ug/L	06/23/98	gef
	Acenaphthylene	ND	10.	ug/L	06/23/98	gef
	Aniline	ND	20.	ug/L	06/23/98	gef
	Anthracene	ND	10.	ug/L	06/23/98	gef
	Benzo(a)anthracene	ND	10.	ug/L	06/23/98	gef
	Benzo(b)fluoranthene	ND	10.	ug/L	06/23/98	gef
	Benzo(k)fluoranthene	ND	10.	ug/L	06/23/98	gef
	Benzo(ghi)perylene	ND	10.	ug/L	06/23/98	gef
	Benzo(a)pyrene	ND	10.	ug/L	06/23/98	gef
	Benzyl alcohol	ND	20.	ug/L	06/23/98	gef
	Bis(2-chloroethoxy)methane	ND	10.	ug/L	06/23/98	gef
	Bis(2-chloroethyl)ether	ND	10.	ug/L	06/23/98	gef
	Bis(2-chloroisopropyl)ether	ND	10.	ug/L	06/23/98	gef
	Bis(2-ethylhexyl)phthalate	ND	10.	ug/L	06/23/98	gef
	4-Bromophenyl phenyl ether	ND	10.	ug/L	06/23/98	gef
	Butyl benzyl phthalate	ND	10.	ug/L	06/23/98	gef
	4-Chloroaniline	ND	20.	ug/L	06/23/98	gef
	4-Chloro-3-methylphenol	ND	20.	ug/L	06/23/98	gef
	2-Chloronaphthalene	ND	10.	ug/L	06/23/98	gef
	2-Chlorophenol	ND	10.	ug/L	06/23/98	gef
	4-Chlorophenyl phenyl ether	ND	10.	ug/L	06/23/98	gef
	Chrysene	ND	10.	ug/L	06/23/98	gef
	Dibenzo(a,h)anthracene	ND	10.	ug/L	06/23/98	gef
	Dibenzofuran	ND	10.	ug/L	06/23/98	gef
	1,2-Dichlorobenzene	ND	10.	ug/L	06/23/98	gef
	1,3-Dichlorobenzene	ND	10.	ug/L	06/23/98	gef
	1,4-Dichlorobenzene	ND	10.	ug/L	06/23/98	gef
	3,3-Dichlorobenzidine	ND	20.	ug/L	06/23/98	gef
	Diethyl phthalate	ND	10.	ug/L	06/23/98	gef
	Dimethyl phthalate	ND	10.	ug/L	06/23/98	gef
	2,4-Dimethylphenol	ND	10.	ug/L	06/23/98	gef
	Di-n-butyl phthalate	ND	10.	ug/L	06/23/98	gef
	Di-n-octyl phthalate	ND	10.	ug/L	06/23/98	gef
	2,4-Dichlorophenol	ND	10.	ug/L	06/23/98	gef
	4,6-Dinitro-2-methylphenol	ND	50.	ug/L	06/23/98	gef
	2,4-Dinitrophenol	ND	50.	ug/L	06/23/98	gef
	2,4-Dinitrotoluene	ND	10.	ug/L	06/23/98	gef
	2,6-Dinitrotoluene	ND	10.	ug/L	06/23/98	gef
	Fluoranthene	ND	10.	ug/L	06/23/98	gef
	Fluorene	ND	10.	ug/L	06/23/98	gef
	Hexachlorobenzene	ND	10.	ug/L	06/23/98	gef
	Hexachlorobutadiene	ND	10.	ug/L	06/23/98	gef

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: SUMP-01
Date Sampled.....: 06/13/98
Time Sampled.....: 08:50
Sample Matrix.....: Water

Laboratory Sample ID: 982058-4
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Hexachlorocyclopentadiene	ND	10.	ug/L	06/23/98	gef
	Hexachloroethane	ND	10.	ug/L	06/23/98	gef
	Indeno(1,2,3-cd)pyrene	ND	10.	ug/L	06/23/98	gef
	Isophorone	ND	10.	ug/L	06/23/98	gef
	2-Methylnaphthalene	ND	10.	ug/L	06/23/98	gef
	2-Methylphenol (o-cresol)	ND	10.	ug/L	06/23/98	gef
	3 & 4 Methylphenol (m&p cresol)	ND	10.	ug/L	06/23/98	gef
	Naphthalene	ND	10.	ug/L	06/23/98	gef
	o-Nitroaniline	ND	50.	ug/L	06/23/98	gef
	m-Nitroaniline	ND	50.	ug/L	06/23/98	gef
	p-Nitroaniline	ND	20.	ug/L	06/23/98	gef
	Nitrobenzene	ND	10.	ug/L	06/23/98	gef
	2-Nitrophenol	ND	10.	ug/L	06/23/98	gef
	4-Nitrophenol	ND	50.	ug/L	06/23/98	gef
	n-Nitrosodi-n-propylamine	ND	10.	ug/L	06/23/98	gef
	n-Nitrosodiphenylamine	ND	10.	ug/L	06/23/98	gef
	Pentachlorophenol	ND	10.	ug/L	06/23/98	gef
	Phenanthrene	ND	10.	ug/L	06/23/98	gef
	Phenol	ND	10.	ug/L	06/23/98	gef
	Pyrene	ND	10.	ug/L	06/23/98	gef
	Pyridine	ND	10.	ug/L	06/23/98	gef
	1,2,4-Trichlorobenzene	ND	10.	ug/L	06/23/98	gef
	2,4,5-Trichlorophenol	ND	10.	ug/L	06/23/98	gef
	2,4,6-Trichlorophenol	ND	10.	ug/L	06/23/98	gef
SW-846 8260B	Volatile Organics					
	Acetone	ND	100	ug/L	06/16/98	krm
	Acetonitrile	ND	5	ug/L	06/16/98	krm
	Acrolein	ND	100	ug/L	06/16/98	krm
	Acrylonitrile	ND	10	ug/L	06/16/98	krm
	Bromodichloromethane	ND	5	ug/L	06/16/98	krm
	Bromoform	ND	5	ug/L	06/16/98	krm
	Bromomethane	ND	5	ug/L	06/16/98	krm
	Carbon Disulfide	8	5	ug/L	06/16/98	krm
	Carbon Tetrachloride	ND	5	ug/L	06/16/98	krm
	Chlorobenzene	ND	5	ug/L	06/16/98	krm
	Chloroethane	ND	5	ug/L	06/16/98	krm
	2-Chloroethylvinyl Ether	ND	5	ug/L	06/16/98	krm
	Chloroform	ND	5	ug/L	06/16/98	krm
	Chloromethane	ND	5	ug/L	06/16/98	krm
	Dibromochloromethane	ND	5	ug/L	06/16/98	krm
	Dibromomethane	ND	5	ug/L	06/16/98	krm
	1,2-Dibromoethane (EDB)	ND	5	ug/L	06/16/98	krm
	Dichlorodifluoromethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,2-Dichloroethane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloroethene	ND	5	ug/L	06/16/98	krm
	cis-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm
	trans-1,2-Dichloroethene	ND	5	ug/L	06/16/98	krm

CORE LAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 982058

Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Customer Sample ID: SUMP-01
Date Sampled.....: 06/13/98
Time Sampled.....: 08:50
Sample Matrix.....: Water

Laboratory Sample ID: 982058-4
Date Received.....: 06/15/98
Time Received.....: 09:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,3-Dichloropropane	ND	5	ug/L	06/16/98	krm
	2,2-Dichloropropane	ND	5	ug/L	06/16/98	krm
	1,1-Dichloropropene	ND	5	ug/L	06/16/98	krm
	cis-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	trans-1,3-Dichloropropene	ND	5	ug/L	06/16/98	krm
	1,4-Dioxane	ND	100	ug/L	06/16/98	krm
	Ethyl Acetate	ND	5	ug/L	06/16/98	krm
	Ethyl Ether (Diethyl Ether)	ND	5	ug/L	06/16/98	krm
	Ethyl Methacrylate	ND	5	ug/L	06/16/98	krm
	2-Hexanone	ND	5	ug/L	06/16/98	krm
	Iodomethane (Methyl Iodide)	ND	5	ug/L	06/16/98	krm
	Methylene Chloride (Dichloromethane)	ND	50	ug/L	06/16/98	krm
	1-Methylpyrrolidine (NMP)	ND	50000	mg/L	06/16/98	krm
	Methyl Ethyl Ketone (2-Butanone)	ND	10	ug/L	06/16/98	krm
	4-Methyl-2-Pentanone (MIBK)	ND	5	ug/L	06/16/98	krm
	Methyl Methacrylate	ND	5	ug/L	06/16/98	krm
	tert-Butyl Methyl Ether (MTBE)	ND	5	ug/L	06/16/98	krm
	2-Nitropropane	ND	50	ug/L	06/16/98	krm
	Styrene	ND	5	ug/L	06/16/98	krm
	1,1,2,2-Tetrachloroethane	ND	5	ug/L	06/16/98	krm
	Tetrachloroethene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichlorobenzene	ND	5	ug/L	06/16/98	krm
	1,1,1-Trichloroethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloroethane	ND	5	ug/L	06/16/98	krm
	Trichloroethene	ND	5	ug/L	06/16/98	krm
	Trichlorofluoromethane	ND	5	ug/L	06/16/98	krm
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	ug/L	06/16/98	krm
	1,2,4-Trimethylbenzene	6	5	ug/L	06/16/98	krm
	1,3,5-Trimethylbenzene	ND	5	ug/L	06/16/98	krm
	1,2,3-Trichloropropane	ND	5	ug/L	06/16/98	krm
	Vinyl Acetate	ND	5	ug/L	06/16/98	krm
	Vinyl Chloride (Chloroethene)	ND	5	ug/L	06/16/98	krm
SW-846 8260B	Volatile Organics					
	Benzene	ND	2	ug/L	06/16/98	krm
	Ethylbenzene	ND	2	ug/L	06/16/98	krm
	Toluene	ND	2	ug/L	06/16/98	krm
	Xylenes (total)	ND	2	ug/L	06/16/98	krm
SW-846 8015 Mod	Total Extractable Petroleum Hydrocarbons					
	TEPH - Diesel Range Organics	3.2	0.5	mg/L	06/22/98	*in

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8260B Batch.....: 25673 Analyst ...: krm
Method Description.: Volatile Organics Units.....: ug/L

CCV	Continuing Calibration Verification	V80521B		0.1	06/16/98	1009

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Bromoform	102.49		5	100.00000		102.5	% REC
Chlorobenzene	98.79		5	100.00000		98.8	% REC
Chloroform	99.73		5	100.00000		99.7	% REC
Chloromethane	102.66		5	100.00000		102.7	% REC
1,1-Dichloroethane	98.85		5	100.00000		98.8	% REC
1,1-Dichloroethene	96.79		5	100.00000		96.8	% REC
1,2-Dichloropropane	101.69		5	100.00000		101.7	% REC
Ethylbenzene	93.91		5	100.00000		93.9	% REC
1,1,2,2-Tetrachloroethane	92.50		5	100.00000		92.5	% REC
Toluene	101.73		5	100.00000		101.7	% REC
Vinyl Chloride (Chloroethene)	100.64		5	100.00000		100.6	% REC

MB	Method Blank	061698			06/16/98	1046

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acetone	2.48		100				
Acetonitrile	ND		5				
Acrolein	ND		100				
Acrylonitrile	ND		10				
Benzene	ND		5				
Bromodichloromethane	ND		5				
Bromoform	ND		5				
Bromomethane	ND		5				
Carbon Disulfide	ND		5				
Carbon Tetrachloride	ND		5				
Chlorobenzene	ND		5				
Chloroethane	ND		5				
2-Chloroethylvinyl Ether	ND		5				
Chloroform	ND		5				
Chloromethane	ND		5				
Dibromochloromethane	ND		5				
Dibromomethane	ND		5				
1,2-Dibromoethane (EDB)	ND		5				
Dichlorodifluoromethane	ND		5				
1,1-Dichloroethane	ND		5				
1,2-Dichloroethane	ND		5				
1,1-Dichloroethene	ND		5				
cis-1,2-Dichloroethene	ND		5				
trans-1,2-Dichloroethene	ND		5				
1,2-Dichloropropane	ND		5				
1,3-Dichloropropane	ND		5				
2,2-Dichloropropane	ND		5				
1,1-Dichloropropene	ND		5				
cis-1,3-Dichloropropene	ND		5				
trans-1,3-Dichloropropene	ND		5				
1,4-Dioxane	ND		100				

CORE LAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	061698			06/16/98	1046

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Ethyl Acetate	ND		5				
Ethylbenzene	ND		5				
Ethyl Ether (Diethyl Ether)	ND		5				
Ethyl Methacrylate	ND		5				
2-Hexanone	ND		5				
Iodomethane (Methyl Iodide)	ND		5				
Methylene Chloride (Dichloromethane)	4.79		50				
1-Methylpyrrolidine (NMP)	ND		50000				
Methyl Ethyl Ketone (2-Butanone)	ND		10				
4-Methyl-2-Pentanone (MIBK)	ND		5				
Methyl Methacrylate	ND		5				
tert-Butyl Methyl Ether (MTBE)	ND		5				
2-Nitropropane	ND		50				
Styrene	ND		5				
1,1,2,2-Tetrachloroethane	ND		5				
Tetrachloroethene	ND		5				
Toluene	ND		5				
1,2,3-Trichlorobenzene	3.53		5				
1,1,1-Trichloroethane	ND		5				
1,1,2-Trichloroethane	ND		5				
Trichloroethene	ND		5				
Trichlorofluoromethane	ND		5				
1,1,2-Trichloro-1,2,2-Trifluoroethan	ND		50				
1,1,2-Trichloro-1,2,2-Trifluoroethan	ND		50				
1,2,4-Trimethylbenzene	ND		5				
1,3,5-Trimethylbenzene	ND		5				
1,2,3-Trichloropropane	ND		5				
Vinyl Acetate	ND		5				
Vinyl Chloride (Chloroethene)	ND		5				
Xylenes (total)	ND		5				

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V80506F		0.5	06/16/98	1126

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	51.17		5	50.00000		102.3	% REC
Chlorobenzene	45.02		5	50.00000		90.0	% REC
1,1-Dichloroethene	49.48		5	50.00000		99.0	% REC
Toluene	48.97		5	50.00000		97.9	% REC
Trichloroethene	53.82		5	50.00000		107.6	% REC

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	V80506F	982043-3	0.5	06/16/98	1617

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	57.45		5	50.00000	5.19	104.5	% REC
Chlorobenzene	43.41		5	50.00000	ND	86.8	% REC
1,1-Dichloroethene	50.01		5	50.00000	ND	100.0	% REC
Toluene	92.83		5	50.00000	45.78	94.1	% REC
Trichloroethene	52.73		5	50.00000	ND	105.5	% REC

CORE LAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	V80506F	982043-3	0.5	06/16/98	1654

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	53.94	57.45	5	50.00000	5.19	97.5	% REC
						6.3	RPD
Chlorobenzene	46.76	43.41	5	50.00000	ND	93.5	% REC
						7.4	RPD
1,1-Dichloroethene	52.47	50.01	5	50.00000	ND	104.9	% REC
						4.8	RPD
Toluene	90.44	92.83	5	50.00000	45.78	89.3	% REC
						2.6	RPD
Trichloroethene	51.43	52.73	5	50.00000	ND	102.9	% REC
						2.5	RPD

Test Method.....: SW-846 8270C Batch.....: 25768 Analyst ...: gef
Method Description.: Semivolatile Organics Units.....: ug/L

MB	Method Blank	060898			06/18/98	1312

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	ND		10.				
Acenaphthylene	ND		10.				
Aniline	ND		20.				
Anthracene	ND		10.				
Benzo(a)anthracene	ND		10.				
Benzo(b)fluoranthene	ND		10.				
Benzo(k)fluoranthene	ND		10.				
Benzo(ghi)perylene	ND		10.				
Benzo(a)pyrene	ND		10.				
Benzyl alcohol	ND		20.				
Bis(2-chloroethoxy)methane	ND		10.				
Bis(2-chloroethyl)ether	ND		10.				
Bis(2-chloroisopropyl)ether	ND		10.				
Bis(2-ethylhexyl)phthalate	ND		10.				
4-Bromophenyl phenyl ether	ND		10.				
Butyl benzyl phthalate	ND		10.				
4-Chloroaniline	ND		20.				
4-Chloro-3-methylphenol	ND		20.				
2-Chloronaphthalene	ND		10.				
2-Chlorophenol	ND		10.				
4-Chlorophenyl phenyl ether	ND		10.				
Chrysene	ND		10.				
Dibenzo(a,h)anthracene	ND		10.				
Dibenzofuran	ND		10.				
1,2-Dichlorobenzene	ND		10.				
1,3-Dichlorobenzene	ND		10.				
1,4-Dichlorobenzene	ND		10.				
3,3-Dichlorobenzidine	ND		20.				
Diethyl phthalate	ND		10.				
Dimethyl phthalate	ND		10.				
2,4-Dimethylphenol	ND		10.				
Di-n-butyl phthalate	ND		10.				

CORE LAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	060898			06/18/98	1312

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Di-n-octyl phthalate	ND		10.				
2,4-Dichlorophenol	ND		10.				
4,6-Dinitro-2-methylphenol	ND		50.				
2,4-Dinitrophenol	ND		50.				
2,4-Dinitrotoluene	ND		10.				
2,6-Dinitrotoluene	ND		10.				
Fluoranthene	ND		10.				
Fluorene	ND		10.				
Hexachlorobenzene	ND		10.				
Hexachlorobutadiene	ND		10.				
Hexachlorocyclopentadiene	ND		10.				
Hexachloroethane	ND		10.				
Indeno(1,2,3-cd)pyrene	ND		10.				
Isophorone	ND		10.				
2-Methylnaphthalene	ND		10.				
2-Methylphenol (o-cresol)	ND		10.				
3 & 4 Methylphenol (m&p cresol)	ND		10.				
Naphthalene	ND		10.				
2-Naphthylamine	ND		50.				
o-Nitroaniline	ND		50.				
m-Nitroaniline	ND		50.				
p-Nitroaniline	ND		20.				
Nitrobenzene	ND		10.				
2-Nitrophenol	ND		10.				
4-Nitrophenol	ND		50.				
n-Nitrosodi-n-propylamine	ND		10.				
n-Nitrosodiphenylamine	ND		10.				
Pentachlorophenol	ND		10.				
Phenanthrene	ND		10.				
Phenol	ND		10.				
Phthalic anhydride	ND		50.				
Pyrene	ND		10.				
Pyridine	ND		10.				
1,2,4-Trichlorobenzene	ND		10.				
2,4,5-Trichlorophenol	ND		10.				
2,4,6-Trichlorophenol	ND		10.				

SB	Spiked Blank	EX80612A		4	06/18/98	2056

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	24.61		10.	25.00000		98.4	% REC
4-Chloro-3-methylphenol	38.70		20.	50.00000		77.4	% REC
2-Chlorophenol	31.58		10.	50.00000		63.2	% REC
1,4-Dichlorobenzene	12.37		10.	25.00000		49.5	% REC
2,4-Dinitrotoluene	20.18		10.	25.00000		80.7	% REC
4-Nitrophenol	32.25		50.	50.00000		64.5	% REC
n-Nitrosodi-n-propylamine	20.87		10.	25.00000		83.5	% REC
Pentachlorophenol	35.59		10.	50.00000		71.2	% REC
Phenol	44.97		10.	50.00000		89.9	% REC
Pyrene	21.30		10.	25.00000		85.2	% REC
1,2,4-Trichlorobenzene	13.20		10.	25.00000		52.8	% REC

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SBD	Spiked Blank Duplicate	EX80612A		4	06/18/98	2154

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	22.93	24.61	10.	25.00000		91.7	% REC
						7.1	RPD
4-Chloro-3-methylphenol	36.71	38.70	20.	50.00000		73.4	% REC
						5.3	RPD
2-Chlorophenol	29.22	31.58	10.	50.00000		58.4	% REC
						7.8	RPD
1,4-Dichlorobenzene	12.37	12.37	10.	25.00000		49.5	% REC
						0.0	RPD
2,4-Dinitrotoluene	18.96	20.18	10.	25.00000		75.8	% REC
						6.2	RPD
4-Nitrophenol	32.39	32.25	50.	50.00000		64.8	% REC
						0.4	RPD
n-Nitrosodi-n-propylamine	18.91	20.87	10.	25.00000		75.6	% REC
						9.9	RPD
Pentachlorophenol	34.06	35.59	10.	50.00000		68.1	% REC
						4.4	RPD
Phenol	41.75	44.97	10.	50.00000		83.5	% REC
						7.4	RPD
Pyrene	20.92	21.30	10.	25.00000		83.7	% REC
						1.8	RPD
1,2,4-Trichlorobenzene	12.77	13.20	10.	25.00000		51.1	% REC
						3.3	RPD

Test Method.....: SW-846 8270C Batch.....: 25854 Analyst ...: gef
Method Description.: Semivolatile Organics Units.....: ug/L

MB	Method Blank	062398			06/23/98	1510

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	ND		10.				
Acenaphthylene	ND		10.				
Aniline	ND		20.				
Anthracene	ND		10.				
Benzo(a)anthracene	ND		10.				
Benzo(b)fluoranthene	ND		10.				
Benzo(k)fluoranthene	ND		10.				
Benzo(ghi)perylene	ND		10.				
Benzo(a)pyrene	ND		10.				
Benzyl alcohol	ND		20.				
Bis(2-chloroethoxy)methane	ND		10.				
Bis(2-chloroethyl)ether	ND		10.				
Bis(2-chloroisopropyl)ether	ND		10.				
Bis(2-ethylhexyl)phthalate	16.86		10.				
4-Bromophenyl phenyl ether	ND		10.				
Butyl benzyl phthalate	ND		10.				
4-Chloroaniline	ND		20.				
4-Chloro-3-methylphenol	ND		20.				
2-Chloronaphthalene	ND		10.				
2-Chlorophenol	ND		10.				

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	062398			06/23/98	1510

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
4-Chlorophenyl phenyl ether	ND		10.				
Chrysene	ND		10.				
Dibenzo(a,h)anthracene	ND		10.				
Dibenzofuran	ND		10.				
1,2-Dichlorobenzene	ND		10.				
1,3-Dichlorobenzene	ND		10.				
1,4-Dichlorobenzene	ND		10.				
3,3-Dichlorobenzidine	ND		20.				
Diethyl phthalate	ND		10.				
Dimethyl phthalate	ND		10.				
2,4-Dimethylphenol	ND		10.				
Di-n-butyl phthalate	ND		10.				
Di-n-octyl phthalate	ND		10.				
2,4-Dichlorophenol	ND		10.				
4,6-Dinitro-2-methylphenol	ND		50.				
2,4-Dinitrophenol	ND		50.				
2,4-Dinitrotoluene	ND		10.				
2,6-Dinitrotoluene	ND		10.				
Fluoranthene	ND		10.				
Fluorene	ND		10.				
Hexachlorobenzene	ND		10.				
Hexachlorobutadiene	ND		10.				
Hexachlorocyclopentadiene	ND		10.				
Hexachloroethane	ND		10.				
Indeno(1,2,3-cd)pyrene	ND		10.				
Isophorone	ND		10.				
2-Methylnaphthalene	ND		10.				
2-Methylphenol (o-cresol)	ND		10.				
3 & 4 Methylphenol (m&p cresol)	ND		10.				
Naphthalene	ND		10.				
2-Naphthylamine	ND		50.				
o-Nitroaniline	ND		50.				
m-Nitroaniline	ND		50.				
p-Nitroaniline	ND		20.				
Nitrobenzene	ND		10.				
2-Nitrophenol	ND		10.				
4-Nitrophenol	ND		50.				
n-Nitrosodi-n-propylamine	ND		10.				
n-Nitrosodiphenylamine	ND		10.				
Pentachlorophenol	ND		10.				
Phenanthrene	ND		10.				
Phenol	ND		10.				
Phthalic anhydride	ND		50.				
Pyrene	ND		10.				
Pyridine	ND		10.				
1,2,4-Trichlorobenzene	ND		10.				
2,4,5-Trichlorophenol	ND		10.				
2,4,6-Trichlorophenol	ND		10.				

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SB	Spiked Blank	EX80622A		2	06/23/98	1607

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	46.77		10.	50.00000		93.5	% REC
4-Chloro-3-methylphenol	69.94		20.	100.00000		69.9	% REC
2-Chlorophenol	67.14		10.	100.00000		67.1	% REC
1,4-Dichlorobenzene	31.55		10.	50.00000		63.1	% REC
2,4-Dinitrotoluene	39.03		10.	50.00000		78.1	% REC
4-Nitrophenol	28.68		50.	100.00000		28.7	% REC
n-Nitrosodi-n-propylamine	40.26		10.	50.00000		80.5	% REC
Pentachlorophenol	83.68		10.	100.00000		83.7	% REC
Phenol	44.50		10.	100.00000		44.5	% REC
Pyrene	37.02		10.	50.00000		74.0	% REC
1,2,4-Trichlorobenzene	29.11		10.	50.00000		58.2	% REC

SBD	Spiked Blank Duplicate	EX80622A		2	06/23/98	1705

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	44.22	46.77	10.	50.00000		88.4	% REC
						5.6	RPD
4-Chloro-3-methylphenol	67.16	69.94	20.	100.00000		67.2	% REC
						4.1	RPD
2-Chlorophenol	66.28	67.14	10.	100.00000		66.3	% REC
						1.3	RPD
1,4-Dichlorobenzene	31.29	31.55	10.	50.00000		62.6	% REC
						0.8	RPD
2,4-Dinitrotoluene	36.11	39.03	10.	50.00000		72.2	% REC
						7.8	RPD
4-Nitrophenol	24.11	28.68	50.	100.00000		24.1	% REC
						17.3	RPD
n-Nitrosodi-n-propylamine	38.52	40.26	10.	50.00000		77.0	% REC
						4.4	RPD
Pentachlorophenol	76.66	83.68	10.	100.00000		76.7	% REC
						8.8	RPD
Phenol	44.18	44.50	10.	100.00000		44.2	% REC
						0.7	RPD
Pyrene	35.41	37.02	10.	50.00000		70.8	% REC
						4.4	RPD
1,2,4-Trichlorobenzene	29.08	29.11	10.	50.00000		58.2	% REC
						0.1	RPD

Test Method.....: SW-846 8015 Mod Batch.....: 57212-3519 Analyst ...: *in
Method Description.: Total Extractable Petroleum Hydrocarbons Units.....: ug/L

LCS	Laboratory Control Sample	8015DM1			06/20/98	1356

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
TEPH - Diesel Range Organics	0.067		0.01			67.0	% REC

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 982058 Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank				06/20/98	1355

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
TEPH - Diesel Range Organics	<0.01		0.01				

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 982058 Report Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Method.....: SW-846 8260B Batch.....: 25673
Method Code.....: 8260CC Analyst.....: krm

Surrogate	Units
1,2-Dichloroethane-d4	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
982005-21			50.00	48.97	50.00000	97.9		06/16/98	1734
982005-22			50.00	50.51	50.00000	101.0		06/16/98	1809
		CCV	1.00	49.92	50.00000	99.8		06/16/98	1009
		MB	1.00	46.70	50.00000	93.4		06/16/98	1046
		LCS	1.00	46.16	50.00000	92.3		06/16/98	1126
982040-3			1.00	46.28	50.00000	92.6		06/16/98	1204
982018-1			1.00	47.76	50.00000	95.5		06/16/98	1239
982018-2			1.00	45.94	50.00000	91.9		06/16/98	1315
982018-3			1.00	46.54	50.00000	93.1		06/16/98	1351
982043-1			1.00	47.68	50.00000	95.4		06/16/98	1430
982043-2			1.00	47.52	50.00000	95.0		06/16/98	1505
982043-3			1.00	47.48	50.00000	95.0		06/16/98	1541
982043-3		MS		50.45	50.00000	100.9		06/16/98	1617
982043-3		MSD		48.93	50.00000	97.9		06/16/98	1654
982058-1			1.00	46.67	50.00000	93.3		06/16/98	1845
982058-2			1.00	46.95	50.00000	93.9		06/16/98	1920
982058-3			1.00	48.20	50.00000	96.4		06/16/98	1956
982058-4			1.00	47.34	50.00000	94.7		06/16/98	2031

Surrogate	Units
4-Bromofluorobenzene	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
982005-21			50.00	44.08	50.00000	88.2		06/16/98	1734
982005-22			50.00	43.36	50.00000	86.7		06/16/98	1809
		CCV	1.00	45.13	50.00000	90.3		06/16/98	1009
		MB	1.00	43.63	50.00000	87.3		06/16/98	1046
		LCS	1.00	44.15	50.00000	88.3		06/16/98	1126
982040-3			1.00	43.10	50.00000	86.2		06/16/98	1204
982018-1			1.00	45.08	50.00000	90.2		06/16/98	1239
982018-2			1.00	43.72	50.00000	87.4		06/16/98	1315
982018-3			1.00	43.78	50.00000	87.6		06/16/98	1351
982043-1			1.00	45.35	50.00000	90.7		06/16/98	1430
982043-2			1.00	45.27	50.00000	90.5		06/16/98	1505
982043-3			1.00	43.96	50.00000	87.9		06/16/98	1541
982043-3		MS		43.65	50.00000	87.3		06/16/98	1617
982043-3		MSD		44.58	50.00000	89.2		06/16/98	1654
982058-1			1.00	43.57	50.00000	87.1		06/16/98	1845
982058-2			1.00	44.37	50.00000	88.7		06/16/98	1920
982058-3			1.00	43.45	50.00000	86.9		06/16/98	1956
982058-4			1.00	44.71	50.00000	89.4		06/16/98	2031

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 982058 Report Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Surrogate	Units
Dibromofluoromethane	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
982005-21			50.00	56.77	50.00000	113.5		06/16/98	1734
982005-22			50.00	57.91	50.00000	115.8		06/16/98	1809
		CCV	1.00	46.98	50.00000	94.0		06/16/98	1009
		MB	1.00	51.06	50.00000	102.1		06/16/98	1046
		LCS	1.00	53.19	50.00000	106.4		06/16/98	1126
982040-3			1.00	54.08	50.00000	108.2		06/16/98	1204
982018-1			1.00	57.98	50.00000	116.0		06/16/98	1239
982018-2			1.00	55.41	50.00000	110.8		06/16/98	1315
982018-3			1.00	58.36	50.00000	116.7		06/16/98	1351
982043-1			1.00	57.18	50.00000	114.4		06/16/98	1430
982043-2			1.00	56.98	50.00000	114.0		06/16/98	1505
982043-3			1.00	59.04	50.00000	118.1		06/16/98	1541
982043-3		MS		57.78	50.00000	115.6		06/16/98	1617
982043-3		MSD		57.06	50.00000	114.1		06/16/98	1654
982058-1			1.00	57.65	50.00000	115.3		06/16/98	1845
982058-2			1.00	57.14	50.00000	114.3		06/16/98	1920
982058-3			1.00	57.65	50.00000	115.3		06/16/98	1956
982058-4			1.00	57.47	50.00000	114.9		06/16/98	2031

Surrogate	Units
Toluene-d8	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
982005-21			50.00	44.17	50.00000	88.3		06/16/98	1734
982005-22			50.00	44.73	50.00000	89.5		06/16/98	1809
		CCV	1.00	48.32	50.00000	96.6		06/16/98	1009
		MB	1.00	47.02	50.00000	94.0		06/16/98	1046
		LCS	1.00	45.39	50.00000	90.8		06/16/98	1126
982040-3			1.00	44.65	50.00000	89.3		06/16/98	1204
982018-1			1.00	44.54	50.00000	89.1		06/16/98	1239
982018-2			1.00	45.18	50.00000	90.4		06/16/98	1315
982018-3			1.00	45.52	50.00000	91.0		06/16/98	1351
982043-1			1.00	44.53	50.00000	89.1		06/16/98	1430
982043-2			1.00	46.48	50.00000	93.0		06/16/98	1505
982043-3			1.00	46.89	50.00000	93.8		06/16/98	1541
982043-3		MS		47.51	50.00000	95.0		06/16/98	1617
982043-3		MSD		44.39	50.00000	88.8		06/16/98	1654
982058-1			1.00	45.42	50.00000	90.8		06/16/98	1845
982058-2			1.00	44.51	50.00000	89.0		06/16/98	1920
982058-3			1.00	46.38	50.00000	92.8		06/16/98	1956
982058-4			1.00	45.09	50.00000	90.2		06/16/98	2031

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 982058 Report Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Method.....: SW-846 8270C Batch.....: 25768
Method Code.....: 8270CC Analyst.....: gef

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	150.32	200.0	75		06/18/98	1312
		SB	4.00	48.01	200.0	96		06/18/98	2056
		SBD	4.00	45.78	200.0	92		06/18/98	2154
981901-1			1.00	124.37	200.0	62		06/18/98	2253
982018-1			1.00	172.08	200.0	86		06/19/98	0441
982018-2			1.00	157.00	200.0	78		06/19/98	0539
982018-3			1.00	173.08	200.0	87		06/19/98	0637
982058-1			1.00	162.80	200.0	81		06/19/98	1028
982058-2			1.00	164.27	200.0	82		06/19/98	1126
982058-3			1.00	155.86	200.0	78		06/19/98	1224
982040-3			5	31.1	200.0	78		06/20/98	1126

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	63.46	100.0	63		06/18/98	1312
		SB	4.00	21.06	100.0	84		06/18/98	2056
		SBD	4.00	19.72	100.0	79		06/18/98	2154
981901-1			1.00	61.85	100.0	62		06/18/98	2253
981959-1			1.00	59.63	100.0	60		06/19/98	0244
981959-2			1.00	54.19	100.0	54		06/19/98	0343
982018-1			1.00	63.86	100.0	64		06/19/98	0441
982018-2			1.00	67.12	100.0	67		06/19/98	0539
982018-3			1.00	67.64	100.0	68		06/19/98	0637
982058-1			1.00	60.93	100.0	61		06/19/98	1028
982058-2			1.00	64.62	100.0	65		06/19/98	1126
982058-3			1.00	68.07	100.0	68		06/19/98	1224
982040-3			5	19.1	100.0	96		06/20/98	1126

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	93.18	200.0	47		06/18/98	1312
		SB	4.00	23.71	200.0	47		06/18/98	2056
		SBD	4.00	23.77	200.0	48		06/18/98	2154
981901-1			1.00	78.13	200.0	39		06/18/98	2253
982018-1			1.00	103.54	200.0	52		06/19/98	0441
982018-2			1.00	106.85	200.0	53		06/19/98	0539

CORE LAB

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 982058 Report Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
982018-3			1.00	98.98	200.0	49		06/19/98	0637
982058-1			1.00	101.00	200.0	50		06/19/98	1028
982058-2			1.00	93.32	200.0	47		06/19/98	1126
982058-3			1.00	108.96	200.0	54		06/19/98	1224
982040-3			5	15.3	200.0	38		06/20/98	1126

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	66.36	100.0	66		06/18/98	1312
		SB	4.00	19.28	100.0	77		06/18/98	2056
		SBD	4.00	17.35	100.0	69		06/18/98	2154
981901-1			1.00	66.57	100.0	67		06/18/98	2253
981959-1			1.00	55.78	100.0	56		06/19/98	0244
981959-2			1.00	55.00	100.0	55		06/19/98	0343
982018-1			1.00	60.45	100.0	60		06/19/98	0441
982018-2			1.00	67.37	100.0	67		06/19/98	0539
982018-3			1.00	66.24	100.0	66		06/19/98	0637
982058-1			1.00	60.36	100.0	60		06/19/98	1028
982058-2			1.00	62.91	100.0	63		06/19/98	1126
982058-3			1.00	67.88	100.0	68		06/19/98	1224
982040-3			5	15.6	100.0	78		06/20/98	1126

Surrogate	Units
Phenol-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	122.21	200.0	61		06/18/98	1312
		SB	4.00	37.33	200.0	75		06/18/98	2056
		SBD	4.00	34.15	200.0	68		06/18/98	2154
981901-1			1.00	114.53	200.0	57		06/18/98	2253
982018-1			1.00	73.85	200.0	37		06/19/98	0441
982018-2			1.00	141.49	200.0	71		06/19/98	0539
982018-3			1.00	139.31	200.0	70		06/19/98	0637
982058-1			1.00	120.56	200.0	60		06/19/98	1028
982058-2			1.00	117.27	200.0	59		06/19/98	1126
982058-3			1.00	128.52	200.0	64		06/19/98	1224
982040-3			5	28.1	200.0	70		06/20/98	1126

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 982058 Report Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	69.39	100.0	69		06/18/98	1312
		SB	4.00	20.77	100.0	83		06/18/98	2056
		SBD	4.00	20.30	100.0	81		06/18/98	2154
981901-1			1.00	64.89	100.0	65		06/18/98	2253
981959-1			1.00	52.56	100.0	53		06/19/98	0244
981959-2			1.00	55.57	100.0	56		06/19/98	0343
982018-1			1.00	45.08	100.0	45		06/19/98	0441
982018-2			1.00	57.02	100.0	57		06/19/98	0539
982018-3			1.00	49.00	100.0	49		06/19/98	0637
982058-1			1.00	48.58	100.0	49		06/19/98	1028
982058-2			1.00	51.10	100.0	51		06/19/98	1126
982058-3			1.00	54.27	100.0	54		06/19/98	1224
982040-3			5	17.4	100.0	87		06/20/98	1126

Method.....: SW-846 8270C Batch.....: 25854
Method Code.....: 8270CC Analyst.....: gef

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	130.20	200.0	65		06/23/98	1510
		SB	2.00	93.00	200.0	93		06/23/98	1607
		SBD	2.00	85.92	200.0	86		06/23/98	1705
982058-4			1.00	184.15	200.0	92		06/23/98	1803

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	62.67	100.0	63		06/23/98	1510
		SB	2.00	44.10	100.0	88		06/23/98	1607
		SBD	2.00	37.42	100.0	75		06/23/98	1705
982058-4			1.00	75.78	100.0	76		06/23/98	1803

CORE LAB

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 982058 Report Date: 06/29/98

CUSTOMER: Entact PROJECT: FARMINGTON D536 ATTN: Marty Cox

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	81.75	200.0	41		06/23/98	1510
		SB	2.00	48.58	200.0	49		06/23/98	1607
		SBD	2.00	45.27	200.0	45		06/23/98	1705
982058-4			1.00	80.21	200.0	40		06/23/98	1803

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	68.71	100.0	69		06/23/98	1510
		SB	2.00	41.63	100.0	83		06/23/98	1607
		SBD	2.00	40.96	100.0	82		06/23/98	1705
982058-4			1.00	75.24	100.0	75		06/23/98	1803

Surrogate	Units
Phenol-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	59.06	200.0	30		06/23/98	1510
		SB	2.00	38.86	200.0	39		06/23/98	1607
		SBD	2.00	36.73	200.0	37		06/23/98	1705
982058-4			1.00	61.76	200.0	31		06/23/98	1803

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	70.67	100.0	71		06/23/98	1510
		SB	2.00	41.62	100.0	83		06/23/98	1607
		SBD	2.00	38.69	100.0	77		06/23/98	1705
982058-4			1.00	68.59	100.0	69		06/23/98	1803

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/29/98

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

ND = Not detected at a value greater than the reporting limit

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Core Laboratories:			
Anaheim, CA	*an	Houston (Pet), TX	*hp
Aurora, CO	*au	Indianapolis, IN	*in
Carson, CA	*cr	Lake Charles, LA	*lc
Casper, WY	*ca	Long Beach, CA	*lb
Edison, NJ	*ed	Valparaiso, IN	*vp
Houston (Env), TX	*he		
Other Laboratories	*xx	Client provided data	*cp
Pollution Control Srv.	*pc		

EXPLANATION OF DATA FLAGS

- B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
- D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
- E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
- I - Used to indicate matrix interference.
- J - Indicates that a value is an estimate. It is used when a compound is determined to be present based on the mass spectral data, but at a concentration less than the practical quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
- X - Indicates that a surrogatge recovery is outside the specified quality control limits.
- Y - Used to identify a spike or spike duplicate recovery and spike duplicate is outside the specified quality control limits.
- * - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
- ^ - Used to indicate that a standard is outside specified quality control limits.

ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD

3.7°C

1616 Corporate Court #150 • Irving, Texas 75038
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION FARMINGTON
PROJECT NUMBER D536
PROJECT MANAGER COX

Coc# 982058

SAMPLED BY

MARTY COX (PRINT NAME)

Marty Cox SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY ☐
PRIORITY 3 or 100% ☐
PRIORITY 2 or 50% ☐
PRIORITY 1 or Standard ☒

DATE	TIME	SAMPLE ID	DESCRIPTION	MATRIX	GRAB	COMP	PRESERVATIVE: HCl	NaOH	HNO_3	NONE	OTHER	VOLATILE ORGANICS	SEMI-VOLATILE ORGANICS	TPH (8020)	BTEX	COMMENTS
6-11	1710	MW-01-01	Groundwater	W	✓		✓			✓		✓	✓	✓	✓	
6-12	1605	MW-02-01	Groundwater	W	✓		✓			✓		✓	✓	✓	✓	
		~~MW-03-01~~	~~Groundwater~~	W	✓		✓			✓						NOT DRILLED
		~~MWD-03-01~~	~~Groundwater~~	W	✓		✓			✓						
6-12	1520	MW-04-01	Groundwater	W	✓		✓			✓		✓	✓	✓	✓	
6-13	0850	SUMP-01	Sewer?	W	✓		✓			✓		✓	✓	✓	✓	SMELLS LIKE SEWER WATER

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 3.7°C

TPH (~~418.1~~), BTEX (8020), VOLATILES (8240), SEMI-VOLATILES (8270), TOTAL LEAD (6010), SPLP LEAD (7421), TCLP LEAD (6010), PCB (8080), PAH (8100)

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Marty Cox	6-13-98	1100	Deborah Jimenez Coc 6/15/98 0950				

METHOD OF SHIPMENT: FedEx 803569540130
REMARKS:

rpjsckl | Job Sample Receipt Checklist Report 06/16/98 | V2

Job Number.....: 982058 Location.: 57203 Customer Job ID.....: Job Check List Date.: 06/16/98
Project Number.: 99999995 Project Description.: Walk in Projects Project Manager.....: rem
Customer.....: Entact Contact.: Marty Cox

Questions ?	(Y/N)	Comments
How did samples arrive?.....		FEDEX
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.7 DEG C
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....	Y	
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Radioactivity at or below background levels?.....	Y	
Additional.....		
Comments.....		6/16/98 DJ
Sample Custodian Signature.....		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 10, 1998

Mr. Marty Cox
Entact - Halliburton Farmington
1616 Corporate Court #150
Irving, Texas 75038

Project No.: 98061-01

Dear Mr. Cox,

Enclosed are the analytical results for the sample collected from the location designated as "Farmington, NM - TS-05". One soil sample was collected by Entact - Halliburton designated personnel on 07/08/98, and received by the Envirotech laboratory on 07/08/98 for Total Petroleum Hydrocarbons (TPH) analysis per USEPA Method 8015 Modified, and for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) per USEPA Method 8021.

The sample was documented on Envirotech Chain of Custody No. 6157 and assigned Laboratory No. D594 for tracking purposes.

The sample was analyzed on 07/08/98 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

98061-01.lb1/1wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton - Farmingtor	Project #:	98061-01
Sample ID:	TS-05(25')	Date Reported:	07-08-98
Laboratory Number:	D594	Date Sampled:	07-08-98
Chain of Custody:	6157	Date Received:	07-08-98
Sample Matrix:	Soil	Date Analyzed:	07-08-98
Preservative:	Cool	Date Extracted:	07-08-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**8.8**
Toluene	**ND**	**8.4**
Ethylbenzene	**ND**	**7.6**
p,m-Xylene	**47.6**	**10.8**
o-Xylene	**ND**	**5.2**
Total BTEX	**47.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	07-08-BTEX QA/QC	Date Reported:	07-08-98
Laboratory Number:	D594	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-08-98
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.4176E-01	2.4224E-01	0.2%	ND	0.2
Toluene	4.9646E-02	4.9795E-02	0.3%	ND	0.2
Ethylbenzene	4.1020E-02	4.1259E-02	0.6%	ND	0.2
p,m-Xylene	2.6433E-02	2.6620E-02	0.7%	ND	0.2
o-Xylene	3.0648E-02	3.0771E-02	0.4%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	8.8
Toluene	ND	ND	0.0%	0 - 30%	8.4
Ethylbenzene	ND	ND	ERR	0 - 30%	7.6
p,m-Xylene	47.6	46.6	2.1%	0 - 30%	10.8
o-Xylene	ND	ND	ERR	0 - 30%	5.2

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.5	99%	39 - 150
Toluene	ND	50.0	49.9	100%	46 - 148
Ethylbenzene	ND	50.0	49.6	99%	32 - 160
p,m-Xylene	47.6	100.0	147	99%	46 - 148
o-Xylene	ND	50.0	49.9	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for sample D594.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS-05(25')	Date Reported:	07-08-98
Laboratory Number:	D594	Date Sampled:	07-08-98
Chain of Custody No:	6157	Date Received:	07-08-98
Sample Matrix:	Soil	Date Extracted:	07-08-98
Preservative:	Cool	Date Analyzed:	07-08-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.2**	**0.2**
Diesel Range (C10 - C28)	**3.4**	**0.1**
Total Petroleum Hydrocarbons	**3.6**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-08-TPH QA/QC	Date Reported:	07-08-98
Laboratory Number:	D594	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-08-98
Condition:	N/A	Analysis Requested:	TPH

Calibration	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-28-98	2.3634E-02	2.3419E-02	0.91%	0 - 15%
Diesel Range C10 - C28	04-28-98	2.3141E-02	2.2925E-02	0.93%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.2	0.2	0.0%	0 - 30%
Diesel Range C10 - C28	3.4	3.3	1.8%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.2	250	250	100%	75 - 125%
Diesel Range C10 - C28	3.4	250	253	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wast SW-846, USEPA, December 1996.

Comments: **QA/QC for sample D594.**

Analyst

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CHAIN OF CUSTODY RECORD

6157

Client / Project Name	Project Location	
ENTACT HALLIBURTON - FARMINGTON	FARMINGTON, NM	
Sampler: MARTY COX	Client No. 98061-01	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX 8020	TPH 8015					Remarks
TS-05(25')	7-8	0900	D594	Soil	1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marty Cox	7-8-98	1010	[signature]	7-8-98	1010
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS-01 (13-15)	Date Reported:	07-10-98
Laboratory Number:	D597	Date Sampled:	07-07-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**8.8**
Toluene	**ND**	**8.4**
Ethylbenzene	**ND**	**7.6**
p,m-Xylene	**190**	**10.8**
o-Xylene	**227**	**5.2**
Total BTEX	**417**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**99 %**
	Bromofluorobenzene	**99 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. East Wall.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 02 (18-20)	Date Reported:	07-10-98
Laboratory Number:	D598	Date Sampled:	07-07-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**11.7**
Toluene	**83.1**	**11.1**
Ethylbenzene	**ND**	**10.1**
p,m-Xylene	**259**	**14.4**
o-Xylene	**224**	**6.9**
Total BTEX	**566**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**95 %**
	Bromofluorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. East Wall (Over).**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	Ts - 03 (25)	Date Reported:	07-10-98
Laboratory Number:	D599	Date Sampled:	07-07-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**11.7**
Toluene	**ND**	**11.1**
Ethylbenzene	**61.3**	**10.1**
p,m-Xylene	**282**	**14.4**
o-Xylene	**357**	**6.9**
Total BTEX	**700**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**98 %**
	Bromofluorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. Floor (E).**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 04 (20)	Date Reported:	07-10-98
Laboratory Number:	D600	Date Sampled:	07-07-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**372**	**11.7**
Toluene	**ND**	**11.1**
Ethylbenzene	**ND**	**10.1**
p,m-Xylene	**105**	**14.4**
o-Xylene	**62.1**	**6.9**
Total BTEX	**539**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**101 %**
	Bromofluorobenzene	**101 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. Floor E (Over).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 06 (18)	Date Reported:	07-10-98
Laboratory Number:	D601	Date Sampled:	07-08-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**11.7**
Toluene	**ND**	**11.1**
Ethylbenzene	**121**	**10.1**
p,m-Xylene	**442**	**14.4**
o-Xylene	**497**	**6.9**
Total BTEX	**1,060**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**98 %**
	Bromofluorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. West Floor.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 07 (20-22)	Date Reported:	07-10-98
Laboratory Number:	D602	Date Sampled:	07-08-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**417**	**11.7**
Toluene	**ND**	**11.1**
Ethylbenzene	**ND**	**10.1**
p,m-Xylene	**ND**	**14.4**
o-Xylene	**ND**	**6.9**
Total BTEX	**417**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. North Wall (E).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 08 (18-20)	Date Reported:	07-10-98
Laboratory Number:	D603	Date Sampled:	07-08-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**11.7**
Toluene	**ND**	**11.1**
Ethylbenzene	**ND**	**10.1**
p,m-Xylene	**ND**	**14.4**
o-Xylene	**ND**	**6.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**97 %**
	Bromofluorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. South Wall (W).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 09 (18-20)	Date Reported:	07-10-98
Laboratory Number:	D604	Date Sampled:	07-08-98
Chain of Custody:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**11.7**
Toluene	**ND**	**11.1**
Ethylbenzene	**ND**	**10.1**
p,m-Xylene	**ND**	**14.4**
o-Xylene	**59.0**	**6.9**
Total BTEX	**59.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Farmington, NM. North W (W).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	07-10-BTEX QA/QC	Date Reported:	07-10-98
Laboratory Number:	D597	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-10-98
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.4176E-01	2.4224E-01	0.2%	ND	0.2
Toluene	4.9646E-02	4.9795E-02	0.3%	ND	0.2
Ethylbenzene	4.1020E-02	4.1259E-02	0.6%	ND	0.2
p,m-Xylene	2.6433E-02	2.6620E-02	0.7%	ND	0.2
o-Xylene	3.0648E-02	3.0771E-02	0.4%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	8.8
Toluene	ND	ND	0.0%	0 - 30%	8.4
Ethylbenzene	ND	ND	0.0%	0 - 30%	7.6
p,m-Xylene	190	183	3.7%	0 - 30%	10.8
o-Xylene	227	219	3.1%	0 - 30%	5.2

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.5	99%	39 - 150
Toluene	ND	50.0	49.9	100%	46 - 148
Ethylbenzene	ND	50.0	49.6	99%	32 - 160
p,m-Xylene	190	100.0	289	100%	46 - 148
o-Xylene	227	50.0	276.4	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples D597 - D604.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 01 (13-15)	Date Reported:	07-10-98
Laboratory Number:	D597	Date Sampled:	07-07-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**392**	**0.2**
Diesel Range (C10 - C28)	**904**	**0.1**
Total Petroleum Hydrocarbons	**1,300**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. East Wall.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 02 (18-20)	Date Reported:	07-10-98
Laboratory Number:	D598	Date Sampled:	07-07-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**233**	**0.2**
Diesel Range (C10 - C28)	**1,160**	**0.1**
Total Petroleum Hydrocarbons	**1,400**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. East Wall (Over).**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 03 (25)	Date Reported:	07-10-98
Laboratory Number:	D599	Date Sampled:	07-07-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**381**	**0.2**
Diesel Range (C10 - C28)	**1,320**	**0.1**
Total Petroleum Hydrocarbons	**1,700**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. Floor (E).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 04 (20)	Date Reported:	07-10-98
Laboratory Number:	D600	Date Sampled:	07-07-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**57**	**0.2**
Diesel Range (C10 - C28)	**332**	**0.1**
Total Petroleum Hydrocarbons	**389**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. Floor - E (Over).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 06 (18)	Date Reported:	07-10-98
Laboratory Number:	D601	Date Sampled:	07-08-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**319**	**0.2**
Diesel Range (C10 - C28)	**3,070**	**0.1**
Total Petroleum Hydrocarbons	**3,390**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. West Floor.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 07 (20-22)	Date Reported:	07-10-98
Laboratory Number:	D602	Date Sampled:	07-08-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.6**	**0.2**
Diesel Range (C10 - C28)	**0.6**	**0.1**
Total Petroleum Hydrocarbons	**1.2**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. North Wall (E).**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 08 (18-20)	Date Reported:	07-10-98
Laboratory Number:	D603	Date Sampled:	07-08-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.9**	**0.2**
Diesel Range (C10 - C28)	**644**	**0.1**
Total Petroleum Hydrocarbons	**646**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. South Wall (W).**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Entact Halliburton-Farmington	Project #:	98061-01
Sample ID:	TS - 09 (18-20)	Date Reported:	07-10-98
Laboratory Number:	D604	Date Sampled:	07-08-98
Chain of Custody No:	6158	Date Received:	07-09-98
Sample Matrix:	Soil	Date Extracted:	07-10-98
Preservative:	Cool	Date Analyzed:	07-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**121**	**0.2**
Diesel Range (C10 - C28)	**1,140**	**0.1**
Total Petroleum Hydrocarbons	**1,260**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farmington, NM. North W (W).**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-10-TPH QA/QC	Date Reported:	07-10-98
Laboratory Number:	D597	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-10-98
Condition:	N/A	Analysis Requested:	TPH

Calibration	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-28-98	2.3634E-02	2.3700E-02	0.28%	0 - 15%
Diesel Range C10 - C28	04-28-98	2.3141E-02	2.3201E-02	0.26%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	392	389	0.8%	0 - 30%
Diesel Range C10 - C28	904	888	1.8%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	392	250	641	100%	75 - 125%
Diesel Range C10 - C28	904	250	1,150	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wast SW-846, USEPA, December 1996.

Comments: **QA/QC for samples D597 - D604.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

6158

Client / Project Name	Project Location	98061-01	ANALYSIS / PARAMETERS								
ENTACT HALLIBURTON - FARMINGTON	FARMINGTON, NM										
Sampler: MARTY COX	Client No. ~~D583~~ 98061-01		No. of Containers	BTEX 8020	TPH 8015						Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
TS-01(13-15)	7-7-98	1400	D597	SOIL	1	✓	✓					EAST WALL
TS-02(18-20)	7-7-98	1600	D598	SOIL	1	✓	✓					EAST WALL (OVER)
TS-03(25)	7-7-98	1730	D599	SOIL	1	✓	✓					FLOOR (E)
TS-04(22)	7-7-98	1815	D600	SOIL	1	✓	✓					FLOOR - E (OVER)
TS-06(18)	7-8-98	1519	D601	SOIL	1	✓	✓					WEST FLOOR
TS-07(20-22)	7-8-98	0755	D602	SOIL	1	✓	✓					NORTH WALL (E)
TS-08(18-20)	7-8-98	1555	D603	SOIL	1	✓	✓					SOUTH WALL (W)
TS-09(18-20)	7-8-98	1608	D604	SOIL	1	✓	✓					NORTH W (W)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marty Cox	7-9-98	1524	Robert Mayberry	7/9/98	1526
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Farmington, New Mexico 87401
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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 13, 1998

Mr. Marty Cox
Entact - Halliburton Farmington
1616 Corporate Court #150
Irving, Texas 75038

Project No.: 98061-01

Dear Mr. Cox,

Enclosed are the analytical results for the samples collected from the location designated as "Farmington, NM". Eight soil samples were collected by Entact - Halliburton designated personnel on 07/07/98 and 07/08/98, and received by the Envirotech laboratory on 07/09/98 for Total Petroleum Hydrocarbons (TPH) analysis per USEPA Method 8015 Modified, and for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 6158 and assigned Laboratory Nos. D597 (TS-01), D598 (TS-02), D599 (TS-03), D600 (TS-04), D601 (TS-06), D602 (TS-07), D603 (TS-08), D604 (TS-09) for tracking purposes.

The samples were analyzed on 07/10/98 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.

Stacy W Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

98061-01.lb2/wpd

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APPENDIX B

ENVIROTECH INC.

Bill of Lading

98061-01

11057

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				Job # 98061 TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-8	17	L.F. #2	Wellex	Clean Fill Dirt		18	Marquez	5021	Pete Marquez
7-8	18	L.F. #2	Wellex	Clean Fill Dirt		18	Barela Trucking	L-16	Leonard Barela
7-8	19	L.F. #2	Wellex	Clean Fill Dirt		18	ABC Trucking	#7	
7-8	20	L.F. #2	Wellex	Clean Fill Dirt		18	Max	#10	
7-8	21	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	#17	Jim Engelbrecht
7-8	22	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	10	Lee, Dewey
7-8	23	L.F. #2	Wellex	Clean Fill Dirt		18	Joe Martinez	AL41	Charlie Esquibel
7-8	24	L.F. #2	Wellex	Clean Fill Dirt		18	S+G Gravel	27	
7-8	25	L.F. #2	Wellex	Clean Fill Dirt		18	Marquez	5021	Pete Marquez
7-8	26	L.F. #2	Wellex	Clean Fill Dirt		18	Barela Trucking	L-16	
7-8	27	L.F. #2	Wellex	Clean Fill Dirt		18	ABC Trucking	#7	
7-8	28	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	10	Lee, Dewey
7-8	29	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	17	Jim Engelbrecht
7-8	30	L.F. #2	Wellex	Clean Fill Dirt		18	Joe Martinez	AL41	Charles Esquibel
7-8	31	L.F. #2	Wellex	Clean Fill Dirt		18	S+G Gravel	27	
7-8	32	L.F. #2	Wellex	Clean Fill Dirt		18	Marquez	5021	Pete Marquez

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

288

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

DATE 7-8-98

ENVIROTECH INC.

Bill of Lading

98061-01

11058

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-8	17	Wellex	L.F. #2	Contaminated Dirt		20	ABC Trucking	#7	
7-8	18	Wellex	L.F. #2	Contaminated Dirt		20	MAX	#1	
7-8	19	Wellex	L.F. #2	Contaminated Dirt		20	Inland	#17	Jim Engelbrecht
7-8	20	Wellex	L.F. #2	Contaminated Dirt		20	Inland	10	Ray Dewitt
7-8	21	Wellex	L.F. #2	Contaminated Dirt		20	Joe Martinez	AL41	Charles Esquibel
7-8	22	Wellex	L.F. #2	Contaminated Dirt		20	SG Gravel	27	
7-8	23	Wellex	L.F. #2	Contam. Dirt		20	Marquez	5021	Pete Marquez
7-8	24	Wellex	L.F. #2	Contam. Dirt		20	Barela Trucking	L-16	
7-8	25	Wellex	L.F. #2	Contaminated Dirt		20	ABC Trucking	#7	
7-8	26	Wellex	L.F. #2	Contaminated Dirt		20	INLAND	10	Ray Dewitt
7-8	27	Wellex	L.F. #2	Contaminated Dirt		20	INLAND	17	Jim Engelbrecht
7-8	28	Wellex	L.F. #2	Contaminated Dirt		20	Joe Martinez	AL41	Charles Esquibel
7-8	29	Wellex	L.F. #2	Contaminated Dirt		20	SG Gravel	27	
7-8	30	Wellex	L.F. #2	Contaminated Dirt		20	Marquez	5021	Pete Marquez
7-8	31	Wellex	L.F. #2	Contaminated Dirt		20	Barela Trucking	L-16	
7-8	32	Wellex	L.F. #2	Contaminated Dirt		20	ABC Trucking	#7	

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

320

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-8-98

ENVIROTECH INC.

Bill of Lading

98061-01

11059

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MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				Job # 98061 TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-8	33	L.F. #2	Wellex	Clean Fill Dirt		18	Barela Trucking	L-16	T Barela
7-8	34	L.F. #2	Wellex	Clean Fill Dirt		18	ABC Trucking	#7	
7-8	35	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	#10	
7-8	36	L.F. #2	Wellex	Clean Fill Dirt		18	MAX	#1	
78	37	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	#17	
7-8	38	LF #2	Wellex	Cleanfill		18	Joe Martinez	AL41	
7-8	39	LF #2	Wellex	Cleanfill		18	S+G Gravel	27	
7-8	40	LF #2	Wellex	Cleanfill		18	Marquez	5021	
7-8	41	LF #2	Wellex	Cleanfill		18	Barela Trucking	L-16	T Barela
7-8	42	LF #2	Wellex	Cleanfill		18	INLAND	17	
7-8	43	LF #2	Wellex	Cleanfill		18	Bobby Trucking	7	
7-8	44	LF #2	Wellex	Cleanfill		18	MAX	#1	
7-8	45	LF #2	Wellex	Cleanfill		18	S+G Gravel	27	
7-8	46	L.F. #2	Wellex	Clean fill		18	Marquez Trucking	5021	
7-8	47	L.F. #2	Wellex	Clean fill		18	Barela Trucking	L-16	T Barela
						18	MAX	#1	

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

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NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-08

ENVIROTECH INC.

Bill of Lading

98061-01

11060

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MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-8	33	Wellex	L.F. #2	Contaminated Dirt		20	Inland	10	Larry Williams
7-8	34	Wellex	L.F. #2	Contaminated Dirt		20	MAX	1	Max
7-8	35	Wellex	L.F. #2	Contaminated Dirt		20	Inland	#17	Jim Engelbrecht
7-8	36	Wellex	L.F #2	Contaminated Dirt		20	Joe Martinez	#ALY	Charles Engelbrecht
7-8	37	Wellex	L-F #2	Contam. Dirt		20	SNG Gravel	27	
7-8	38	Wellex	L.F #2	Contam Dirt		20	Marquez	5021	Pete Marquez
7-8	39	Wellex	LF #2	Contam dirt		20	Barela Trucking	L-16	J. Barela
7-8	40	Wellex	LF #2	Contam dirt		20	Inland	10	Larry Williams
7-8	41	Wellex	LF #2	Contam Dirt		20	INLAND	17	Jim Engelbrecht
7-8	42	Wellex	LF #2	Contam Dirt		20	Bony trucking	7	
7-8	43	Wellex	LF #2	Contam. Dirt		20	MAX	#1	Max
7-8	44	Wellex	LF 2	Contam Dirt		20	SNG GRAVEL	27	
7-8	45	Wellex	L.F 2	Contam Dirt		20	Marquez	5021	Pete Marquez
7-8	46	Wellex	L.F.2	Contam Dirt		20	Barela Trucking	L-16	J. Barela
7-8	47	Wellex	L.F.2	Contam Dirt		20	Max	#1	Max

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-8-90

ENVIROTECH INC.

Bill of Lading

98061-A

11062

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-9	1	Wellex	L.F. #2	Contaminated Dirt		20	MAReavez	5021	[signature]

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-9-90

ENVIROTECH INC.

Bill of Lading

11063

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-9	1	L.F. #2	Wellex	Clean Fill Dirt		18	Marquez	5021	Pete Marquez
							98061-01		

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Enviratech Inc. SIGNATURE Don Williams

7-9-07

ENVIROTECH INC.

Bill of Lading

16 cal 2 Fol 98061-01

11188

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				#98061 TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-8	1	Wellex	L.F. #2	Contaminated Dirt		20	Inland	17	Jim Engelbrecht
7-8	2	Wellex	L.F. #2	Contaminated Dirt		20	Marquez Trucking	5021	Pete Marquez
7-8	3	Wellex	L.F. #2	Contaminated Dirt		20	L Barela Trucking	L-16	Leonard Barela
7-8	4	Wellex	L.F. #2	Contaminated Dirt		20	ABC Trucking	#7	[illegible]
7-8	5	Wellex	L.F #2	Contaminated Dirt		20	Mtn. Valley Trucking	L-14	Clyde A Barela
7-8	6	Wellex	L.F #2	Contaminated Dirt		20	MAX	#1	MAX
7-8	7	Wellex	L.F. #2	Contaminated Dirt		20	Inland	17	Jim Engelbrecht
7-8	8	Wellex	L.F. #2	Contaminated Dirt		20	Inland	10	Lay Wilds
7-8	9	Wellex	L.F. #2	Contaminated Dirt		20	MARQUEZ	5021	Pete Marquez
7-8	10	Wellex	L.F. #2	Contaminated Dirt		20	Barela	L-16	L Barela
7-8	11	Wellex	L.F. #2	Contaminated Dirt		20	ABC Trucking	#7	[illegible]
7-8	12	Wellex	L F # 2	Contaminated DIRT		20	MAX	#1	MAX
7-8	13	Wellex	L F # 2	Contaminated DIRT		20	INLAND	17	Jim Engelbrecht
7-8	14	Wellex	L-F #2	Contam DIRT		20	INLAND	10	Lay Wilds
7-8	15	Wellex	L-F #2	Contam DIRT		20	MARQUEZ	5021	Pete Marquez
7-8	16	Wellex	L.F. #2	Contaminated Dirt		20	Barela	L-16	[illegible]

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

320

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

DATE 7-8-98

ENVIROTECH INC.

Bill of Lading

a80 61-07

11189

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				Job # 98061 TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-8	1	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	17	Jim Engelbrecht
7-8	2	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	10	Gary Swilley
7-8	3	L.F. #2	Wellex	Clean Fill Dirt		18	MAX	#1	
7-8	4	L.F. #2	Wellex	Clean Fill Dirt		18	Mangum Trucking	5021	Pete Mangum
7-8	5	L.F. #2	Wellex	Clean Fill Dirt		18	L Barela Trucking	L-16	Lawrence L Barela
7-8	6	L.F. #2	Wellex	Clean Fill Dirt		18	ABC Trucking	#7	
7-8	7	L.F. #2	Wellex	Clean Fill Dirt		18	Mtn. Valley Trucking	C-14	Charlie A Barela
7-8	8	L.F. #2	Wellex	Clean Fill Dirt		18	MAX	#1	
7-8	9	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	17	Jim Engelbrecht
7-8	10	L.F. #2	Wellex	Clean Fill Dirt		18	Inland	10	Gary Swilley
7-8	11	L.F. #2	Wellex	Clean Fill Dirt		18	MARQUEZ	5021	Pete Mangum
7-8	12	L.F. #2	Wellex	Clean Fill Dirt		18	Barela Trucking	L-16	L Barela
7-8	13	L.F. #2	Wellex	Clean Fill Dirt		18	ABC Trucking	#7	
7-8	14	L.F #2	Wellex	Clean fill		18	MAX	#1	
7-8	15	L-F # 2	Wellex	Clean fill		18	INLAND	17	Jim Engelbrecht
7-8	16	L-F #2	Wellex	Clean fill		18	INLAND	10	Gary Swilley

"I certify the material hauled from the above location has not been added to or mixed with and is the same material received from the above mentioned Generator, and that no additional materials have been added."

288

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

DATE 7-8-98

ENVIROTECH INC.

Bill of Lading

98061-01

11199

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-6-98	1	L.F. #2		Clean Fill Dirt		23	Well-Ex	L-16	T Banks
7-6-98	2	L.F. #2		Clean Fill Dirt		25	Well-Ex	#1	MAY
7-6-98	3	L.F. #2		Clean Fill Dirt		25	Well-Ex	#7	John
7-6-98	4	L.F. #2		Clean Fill Dirt		25	Well-Ex	#1	MAY
7-6-98	5	L.F. #2		Clean Fill Dirt		23	Well-Ex	L-16	T Banks
7-6-98	6	L.F. #2		Clean Fill Dirt		20	Well-Ex	#7	John
7-6-98	7	L.F. #2		Clean Fill Dirt		25	Well-Ex	#1	MAY
7-6-98	8	L.F. #2		Clean Fill Dirt		23	Well-Ex	#L-16	T Banks
7-6-98	9	L.F. #2		Clean Fill Dirt		20	Well-Ex	#7	John
7-6-98	10	L.F. #2		Clean Fill Dirt		25	Well-Ex	#1	MAY
7-6-98	11	L.F. #2		Clean Fill Dirt		23	Well-Ex	#L-16	T Banks
7-6-98	12	L.F. #2		Clean Fill Dirt		20	Well-Ex	#7	John

277

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-6-98

ENVIROTECH INC.

Bill of Lading

98061-01

11200

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-6	1		L.F. #2	Contaminated Dirt		18	Well-Ex	#7	
7-6	2		L.F. #2	Contaminated Dirt		22	Well-Ex	#1	
7-6	3		L.F. #2	Contaminated Dirt		23	Well-Ex	#2-16	
7-6	4		L.F. #2	Contaminated Dirt		20	Well-Ex	#7	
						83			

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

DATE 7-6-98

ENVIROTECH INC.

Bill of Lading

98061-01

11201

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-7	1	L.F. #2	Wellex	Clean Fill Dirt	N/A	18	Well-Ex	#7	
7-7	2	L.F. #2	Wellex	Clean Fill Dirt		18		#5021	
7-7	3	L.F. #2	Wellex	"		18		#98	B.M. Brado
7-7	4	L.F. #2	Wellex	"		18		L-16	
7-7	5	L.F. #2	Wellex	"		18		#7	
7-7	6	L.F. #2	Wellex	"		18		#7	
7-7	7	L.F. #2	Wellex	"		18		L-16	
7-7	8	L.F. #2	Wellex	"		18		L-16	
7-7	9	L.F. #2	Wellex	"		18		#98	
7-7	10	L.F. #2	Wellex	"		18		#98	
7-7	11	L.F. #2	Wellex	"		18		#7	
7-7	12	L.F. #2	Wellex	"		18		L-16	
7-7	13	L.F. #2	Wellex	"		18		#98	
7-7	14	L.F. #2	Wellex	"		18	Unland	17	
7-7	15	L.F. #2	Wellex	"		18		#7	
7-7	16	L.F. #2	Wellex	"		18		L-16	

"I certify the material hauled from the above location has not been added to or mixed with and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

DATE 7-7-98

ENVIROTECH INC.

Bill of Lading

98061-01

11202

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-7	1	Wellex	L.F. #2	Contaminated Dirt		20	Well-Ex.	5021	
7-7	2	Wellex	L.F. #2	Contaminated Dirt		20	"	#98	B.M. Brado
7-7	3	Wellex	"	Contaminated Dirt		20	"	#98	B M Brado
7-7	4	Wellex	"	Contaminated Dirt		20	"	L-16	J Banks
7-7	5	Wellex	"	Contaminated Dirt		20	"	#7	
7-7	6	Wellex	"	Contaminated Dirt		20	"	#7	
7-7	7	Wellex	"	Contaminated Dirt		20	"	L-16	J Banks
7-7	8	Wellex	"	Contaminated Dirt		20	"	#98	B.M. Brado
7-7	9	Wellex	"	Contaminated Dirt		20	"	#98	B M Brado
7-7	10	Wellex	"	Contaminated Dirt		20	"	#7	
7-7	11	Wellex	"	Contaminated Dirt		20	"	L-16	J Banks
7-7	12	Wellex	"	Contaminated Dirt		20	"	L-16	J Banks
7-7	13	Wellex	"	Contaminated Dirt		20	"	#98	B.M. Brado
7-7	14	Wellex	"	Contaminated Dirt		20	Inland "	#17	Jim Englebright
7-7	15	Wellex	"	Contaminated Dirt		20	"	#7	
7-7	16	Wellex	"	Contaminated Dirt		20	"	L-16	J Banks

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

320

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-7-98

ENVIROTECH INC.

Bill of Lading

98061-01

11203

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-7	17	Wellex	L.F. #2	Contaminated Dirt		20		5021	Pete Maging
7-7	18	Wellex	L.F. #2	Contaminated Dirt		20		5021	Pete Maging
7-7	19	Wellex	L.F. #2	Contaminated Dirt		20		5021	Pete Maging
7-7	20	Wellex	L.F. #2	Contaminated Dirt		20		5021	Pete Maging
7-7	21	Wellex	L.F. #2	Contaminated Dirt		20		5021	Pete Maging
7-7	22	Wellex	L.F. #2	Contaminated Dirt		20		98	~~Pete Maging~~
7-7	23	Wellex	L.F. #2	Contaminated Dirt		20		17	Jim Englebrecht
7-7	24	Wellex	L.F. #2	Contaminated Dirt		20		#7	
7-7	25	Wellex	L.F. #2	Contaminated Dirt		20		98	BJ Enviro Co
7-7	26	Wellex	L.F. #2	Contaminated Dirt		20		5021	Pete Maging
7-7	27	Wellex	L.F. #2	Contaminated Dirt		20		L-16	J Baca
7-7	28	Wellex	L.F. #2	Contaminated Dirt		20		17	Jim Englebrecht
7-7	29	Wellex	L.F. #2	Contaminated Dirt		20		7	
						260			

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

7-7-98

ENVIROTECH INC.

Bill of Lading

98061-01

11204

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF July

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
7-7	17	L.F. #2	Wellex	Coarse Fill Dirt	N/A	18		5051	Pete Mangus
7-7	18	L.F. #2	Wellex	Clean Fill Dirt		18		5051	Pete Mangus
7-7	19	L.F. #2	Wellex	Clean Fill Dirt		18		5051	Pete Mangus
7-7	20	L.F. #2	Wellex	Clean Fill Dirt		18		5051	Pete Mangus
7-7	21	L.F. #2	Wellex	Clean Fill Dirt		18		98	~~Pete Mangus~~
7-7	22	L.F. #2	Wellex	Clean Fill Dirt		18		17	Jim Engelbrecht
7-7	23	L.F. #2	Wellex	Clean Fill Dirt		18		#7	
7-7	24	L.F. #2	Wellex	Clean Fill Dirt		18		5021	Pete Mangus
7-7	25	L.F. #2	Wellex	Clean Fill Dirt		18		L-16	R Banks
7-7	26	L.F. #2	Wellex	Clean Fill Dirt		18		17	Jim Engelbrecht
7-7	27	L.F. #2	Wellex	Clean Fill Dirt		18		7	

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

190

NAME Don Williams COMPANY Envirotech Inc. SIGNATURE Don Williams

DATE 7-7-98

APPENDIX C

ENTACT, INC.
1616 CORPORATE CT #150
IRVING, TX 75038

LOG OF BORING MW-01

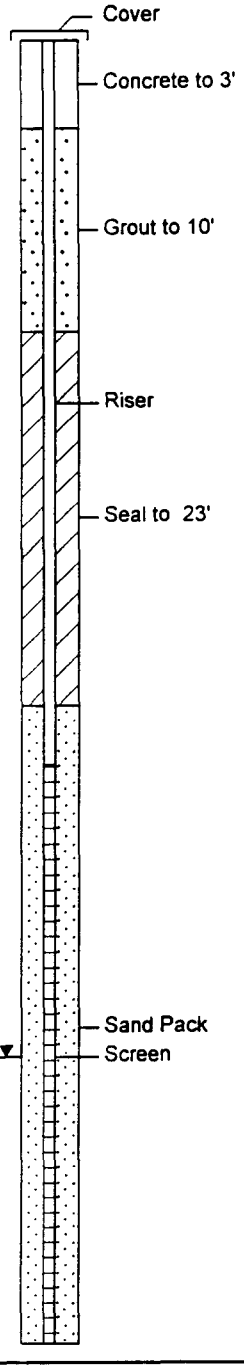
Phase 2
Halliburton-Farmington
2600 Bloomfield Highway
Farmington, Texas
D 536

Date Completed : 6/10/98
Hole Diameter : 6 inches
Drilling Method : Odex

Company Rep. : Bob Rogers-Envirodrill
Top of Casing : 99.79

Depth in feet	SAMPLE DESCRIPTION
0	Rock - coarse
	At 4 feet cobble, less sand
5	
10	At 12 feet, sand, fine to medium grained granite
	At 13 feet, sand and cobble
15	
	Cobble
20	
25	
30	
	At 32-34 feet moist
35	
40	
45	

GRAPHIC



WELL CONSTRUCTION INFORMATION

WELL CONSTRUCTION

Date Compl.	: 6/10/98
Hole Diameter	: 6 inches
Drill. Method	: Odex
Company Rep.	: Bob Rogers

WELL CASING

Material	: PVC
Diameter	: 2 inches
Joints	: threaded

WELL SCREEN

Material	: PVC
Diameter	: 2 inches
Joints	: threaded
Opening	: .010 slot
SAND PACK	: 20/40 quartz
ANNULUS SEAL	: bentonite pellets : and portland cem. : grout

NOTES

End of boring at 45 feet

06-22-1998 C:\MTECH46\HALLIBURTON\mw-01.bor

ENTACT, INC.
1616 CORPORATE CT #150
IRVING, TX 75038

LOG OF BORING MW-02

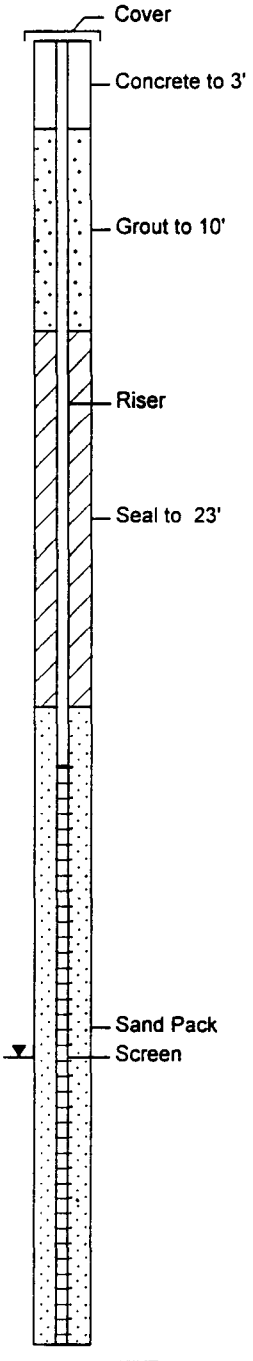
Phase 2
Halliburton-Farmington
2600 Bloomfield Highway
Farmington, Texas
D 536

Date Completed	: 6/11/98	Company Rep.	: Bob Rogers-Envirodrill
Hole Diameter	: 6 inches	Top of Casing	: 100.12
Drilling Method	: Odex		

Depth in feet	SAMPLE DESCRIPTION
0	CLAY, Reddish-Brown, sandy
	SAND & Cobble
5	Cobble
10	At 11 feet sand and cobble
15	
20	SANDS, poorly graded at 20.5 feet
	Cobble
25	
30	At 32' static and semi-confined
35	
40	AT 38'- 40', Soft Zone
45	

GRAPHIC

Well: MW-02



WELL CONSTRUCTION INFORMATION

WELL CONSTRUCTION

Date Compl.	: 6/11/98
Hole Diameter	: 6 inches
Drill. Method	: Odex
Company Rep.	: Bob Rogers

WELL CASING

Material	: PVC
Diameter	: 2 inches
Joints	: threaded

WELL SCREEN

Material	: PVC
Diameter	: 2 inches
Joints	: threaded
Opening	: .010 slot
SAND PACK	: 20/40 quartz
ANNULUS SEAL	: bentonite pellets : and portland cem. : grout

NOTES

End of boring at 45 feet

06-22-1998 C:\MTECH46\HALLIBURTON\mw-02.bor

ENTACT, Inc.
1616 Corporate Court # 150
Irving, TX 75038

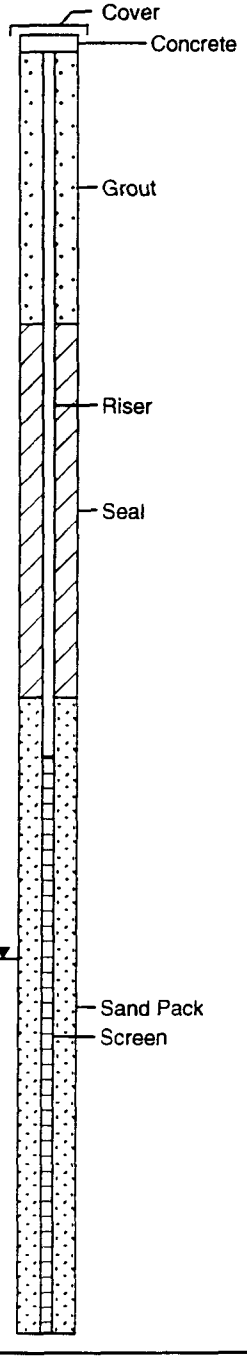
LOG OF BORING M W - 03

Halliburton - Farmington
2600 Bloom Field Highway
Farmington, New Mexico

D 543

Date Completed : 7/13-14/98
Hole Diameter : 8 Inches
Drilling Method : Odex
Compny Rep. : Total Support

Depth in feet	DESCRIPTION	GRAPHIC
0	Concrete	
	CLAYEY SAND, backfill	
5		
10		
15		
	Cobbles & Sand	
20		
25		
30		
35		
40		
45		



Well Construction Information

Well Construction

Date Completed	: 7/13-14/98
Hole Diameter	: 8 inches
Drill Method	: Odex
Company Rep.	: Total Support

Well Casing

Material	: PVC
Diameter	: 2 inches
Joints	: Screw-Coupled

Well Screen

Material	: PVC
Diameter	: 2 inches
Joints	: Slotted
Opening	: 0.010
Sand Pack	: 20/40 quartz
Annulus Seal	: Bentonite Pellets : and Portland : Cement Grout

NOTES

End of boring at 45 feet

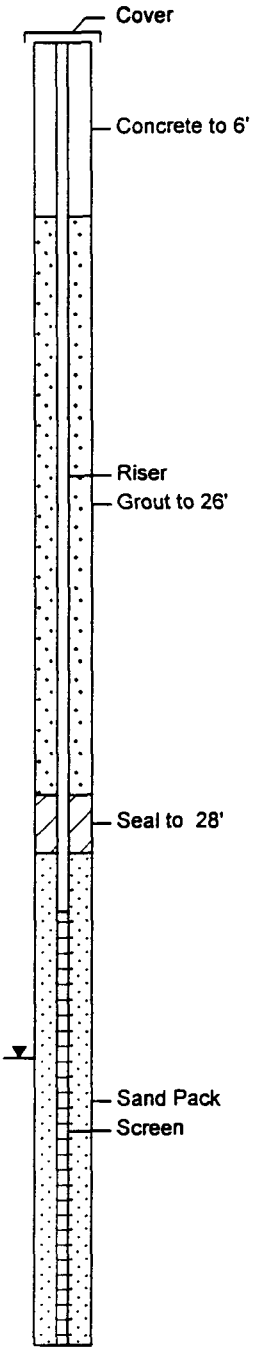
Water at 32 feet, brown color

08-05-1998 - c:\mtech\mw03farm.bor

ENTACT, INC. 1616 CORPORATE CT #150 IRVING, TX 75038	LOG OF BORING MW-04 (Page 1 of 1)
Phase 2 Halliburton-Farmington 2600 Bloomfield Highway Farmington, Texas D 536	Date Completed : 6/09/98 Hole Diameter : 6 inches Drilling Method : Odex Company Rep. : Bob Rogers-Envirodrill Top of Casing : 99.44

Depth in feet	SAMPLE DESCRIPTION
0	
5	At 5 feet, hard drilling, granite rock fragements At 7 feet, REDDISH-BROWN sand and cobble
10	At 11 - 11.5 feet moist sand
15	Cobble
20	
25	AT 26.5 -27.5 feet, sand and cobble
30	
35	At 33 - 34 feet, moist sand and cobble
40	
45	

GRAPHIC



WELL CONSTRUCTION INFORMATION

WELL CONSTRUCTION

Date Compl.	: 6/09/98
Hole Diameter	: 6 inches
Drill. Method	: Odex
Company Rep.	: Bob Rogers

WELL CASING

Material	: PVC
Diameter	: 2 inches
Joints	: threaded

WELL SCREEN

Material	: PVC
Diameter	: 2 inches
Joints	: threaded
Opening	: .010 slot
SAND PACK	: 20/40 quartz
ANNULUS SEAL	: bentonite pellets : and portland cem. : grout

NOTES

End of boring at 45 feet

06-22-1998 C:\MTECH\46\HALLIBURTON\mw-04.bor

CONFIDENTIAL INFORMATION OF ENTACT, INC.

ENTACT uses proprietary technology in additive and treatment processing to achieve it's fixation and permeability results. Patents are both issued and pending, including U.S. Patent #5,588,947 and #5,591,116