AP - 37

STAGE 1 & 2 WORKPLANS

DATE:

7/21/2003

SOIL REMEDIATION AND RISK ASSESSMENT PROPOSAL

Lovington Deep 6"
Ref. # 2002-10312

UL-H, SE¼ of the NE¼ of Section 6, R36E, T17S
Latitude 32° 52' 1.132" N and Longitude 103° 23' 16.570"W
Elevation ~3,918 'amsl

~5 miles south of Lovington
Lea County, New Mexico

July 21, 2003

Prepared by

Environmental Plus, Inc.
2100 Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601

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1.0 SUMMARY AND PROPOSAL

This EOTT Energy LLC (EOTT) Lovington Deep 6" site, is located in UL-H in the SE¼ of the NE¼ of Section 6, R36E, T17S at Latitude 32°52'1.132"N and Longitude 103°23'16.570"W approximately ~5 miles south of Lovington Lea County, New Mexico on property owned by Darr Angell. Site maps are included in Attachment I. The estimated 25 bbls (bbl) crude oil leak attributed to internal/external corrosion, occurred on 12-12-02 @ 8:00 AM in the Lovington Deep 6" steel pipeline with 10 bbls recovered and reintroduced to the system. Approximately 6,000 sqft ft^2 (~150' x 75') of surface was affected. Photographs are included in Attachment II. During the preliminary investigation, ground water was measured at ~65'bgs'below ground surface ('bgs) giving soil to the 15'below ground surface ('bgs) interval a 10 point New Mexico Oil Conservation Division (NMOCD) site ranking score that applies the following soil remedial guidelines;

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
  (BTEX is the mass sum of Benzene, Toluene, Ethyl Benzene, and Xylenes)
- Total Petroleum Hydrocarbon 8015m(TPH^{8015m}) 1000 mg/Kg

For contaminated soil >15'bgs, i.e., <50 from the ground water surface the site ranking score is 20 with the following remedial guidelines;

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg → Should Be 100
- TPH^{8015m} 1000 mg/Kg

It was determined during subsurface delineation that crude oil had impacted the ground water at the "leak origin" borehole (BH1), also known as Monitor Well 1 (MW1). Subsequently, to bound the horizontal and vertical extents in the soil and ground water, BH2, BH4, BH5, and BH6 were advanced, sampled, and installed as perimeter observation/monitor wells, respectively, MW2 (~65' southeast transverse gradient), MW3 (150' down gradient), MW4 (~125 southeast transverse gradient), and MW5 (~100' northwest up gradient). EOTT, the NMOCD, and the land owner were notified immediately of the impact. Weekly product recovery from the MW1 began immediately as did quarterly perimeter monitor well sampling. Initial sampling results indicate that all wells have been impacted above the New Mexico Water Quality Control Commission (WQCC) Benzene standard of 0.01 mg/L but only MW1 exhibits "Phase Separated Hydrocarbon" (PSH). A Rule 19 Abatement Plan will be submitted within 90 days that will address ground water delineation/characterization and remediation.

After discussions with the NMOCD and land owner, EOTT made the decision to remove a portion of the soil known to be contaminated above the regulatory thresholds and dispose of in the nearest NMOCD permitted facility. Approximately 1,102 yd^3, i.e., approximately a 3 feet thickness within the spill area perimeter was disposed of in the NMOCD approved and permitted South Monument Surface Waste Management Facility NM-01-0032. Excavation

continued with approximately 10,500 yd^3 of contaminated soil removed from ~3'bgs in the flow path to ~10'bgs near the leak origin. This soil was processed through a soil shredder to separate rocks from landfarmable soil and to promote attenuation by aeration and volatilization. The table below shows the relative effectiveness of the process;

	TPH[8015m]	BTEX	Benzene
Units	mg/Kg	µg/Kg	µg/Kg
Processed Spoils Pile Soil	1270	2884	*<25*
Contaminated Spoils Pile Soil	3565	10970	*<25*

The excavation exposed the top of the contaminated soil column and effectively delineated the horizontal extent of crude oil impact in the near surface and provided a conceptual visualization of the remaining impacted area, i.e. an inverted cone tapering from ~10'bgs to the ground water interface at ~65'bgs. Bottom and sidewall samples indicate that all soil down to ~10'bgs around the contaminated soil column perimeter are at acceptable levels. Results from analysis of a grab sample from just beneath the surface in the center of the impacted soil column are as follows;

	TPH[8015m]	BTEX	Benzene
Units	mg/Kg	µg/Kg	µg/Kg
Excavation Bottom Point of Release	8380	256990	2690

All data is summarized and presented in Attachment III.

Based on information collected during the soil delineation phase of the project, EOTT proposes to isolate the remaining crude oil source term by installing an engineered and tested clay barrier supported by a computer simulated risk assessment using the American Petroleum Institute VADSAT 3.0 computer model. Details of the risk assessment are provided in Section 6.0.

2.0 Environmental Media Characterization

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) approved **"General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000"** and the NMOCD guidelines published in the following documents;

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylene (BTEX), were established based on the NMOCD Ranking Criteria as follows;

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

2.1 Geological Description

This site is located in the physiographic/geographic subdivision known as the High Plains. The near surface geology is relatively flat in this part of Lea County, surfaced with a thin grayish brown sandy clay overlying a resistant, typically fractured and indurated caliche interbed of varying thickness, i.e., 4-20'. The Cenozoic Ogallala formation consisting of finely graded sand underlies the caliche, bottoming between 200 and 250'bgs. Typically, the interface between the vadose zone and the saturated zone of the Ogallala formation occurs in the area generally between 50-75'bgs.

2.2 Ecological Description

The area is typical of the transition between the High Plains and the Upper Chihuahuan Desert Biomes consisting primarily of flat to gently rolling hills covered with desert grasses and shrubs interspersed with Harvard Shin Oak (Querqus harvardi) and Honey Mesquite (Prosopis glandulosa). Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Pronghorn Antelope and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 Area Ground Water

Ground water was encountered at ~65'bgs during the preliminary site investigation and is consistent with the New Mexico Office of the State Engineer records database. Site information suggests also that the ground water elevation decreases generally to the northeast but will be confirmed by survey.

2.4 Area Water Wells

The New Mexico Office of the State Engineer records water well L09892 approximately 4,500 feet southwest of the site with a 1982 water level of 50'bgs, well L05225, water level 80'bgs, is 2,100 feet north, and well L01723 1800 feet southeast of the site, is listed but does not show a water level. No water wells appear to currently at risk from the impact at the site. Area wells are plotted on the USGS topographical map in Attachment I.

NMOSE Well Number	Tws	Rng	Sec	q	Q	q	Zn	Easting	Northing	Date	Well 'bgs	Water 'bgs
L02339	16S	35E	36	1	3		13	648084	3638919	9/12/1953	82	50
L09953	17S	35E	1	4	2	1	13	649226	3637015	9/25/1987	150	50
L09944	16S	35E	36	4	4		13	649302	3638127	8/17/1987	90	55
L09892	17S	36E	6	3	1	3	13	649630	3636820	1/30/1987	135	50
L04442	16S	36E	31	1			13	649895	3639143	5/25/1960	90	62

NMOSE Well Number	Tws	Rng	Sec	q	Q	q	Zn	Easting	Northing	Date	Well 'bgs	Water 'bgs
L02145	16S	36E	31	3	2		13	650076	3638543	4/7/1953	120	78
L05225	16S	36E	31	4	4		13	650889	3638154	9/18/1963	110	80
L06875	16S	36E	32	1	4	1	13	651579	3639074	11/16/1971	131	90
L06695	16S	36E	32	2	2		13	652479	3639392	6/17/1970	90	45
L05616	17S	36E	4	3	2		13	653324	3636994	5/2/1965	130	65
L01723	17S	36E	5	3	1	1	13	651211	3637049	?	?	?
L01723 S	17S	36E	5	3	2	4	13	651813	3636858	?	?	?
L01723 S-2	17S	36E	5	3	2	1	13	651613	3637058	?	?	?
L01723 S-3	17S	36E	5	4	1	2	13	652215	3637067	?	?	?

2.5 Area Surface Water Bodies

There are no permanent or intermittent surface water bodies within 1000 horizontal feet of the site.

3.0 NMOCD Site Ranking

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water, the site has an NMOCD ranking score of 10 points for soil from the surface to 15'bgs and 20 points for soil from 15'bgs to the ground water interface at 65'bgs. The respective soil remedial goals are highlighted below in the Site Ranking Matrix.

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 10	*Wellhead Protection Area Score= 10*	*Surface Water Score= 0*
Site Rank (1+2+3) = 10 + 10 + 0 = 20 points		

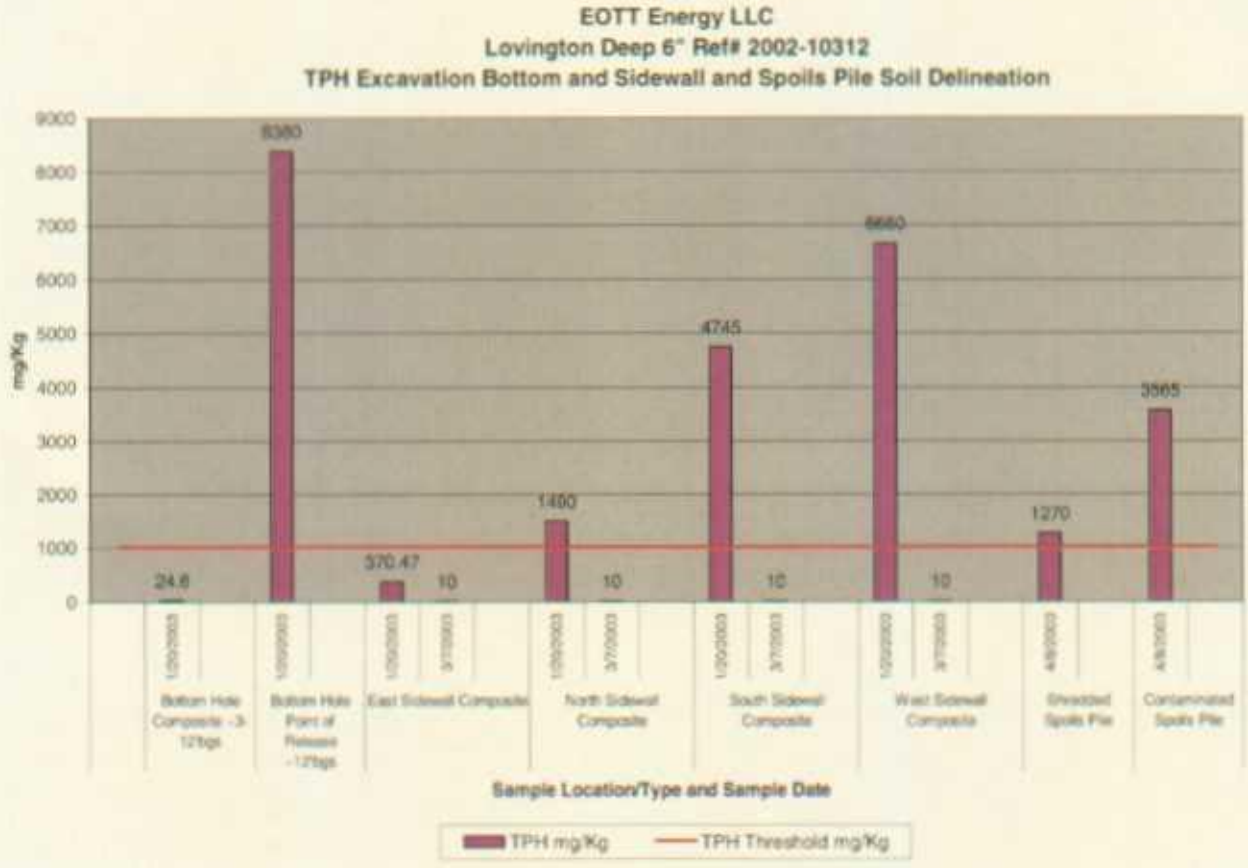
Total Site Ranking Score and Acceptable Remedial Goal Concentrations

Parameter	>19 (15 to 65'bgs)	10-19 (surface to 15'bgs)	0-9
Benzene[1]	**10 ppm**	**10 ppm**	10 ppm
BTEX[1]	**50 ppm**	**50 ppm**	50 ppm
TPH	**100 ppm**	**1000 ppm**	5000 ppm

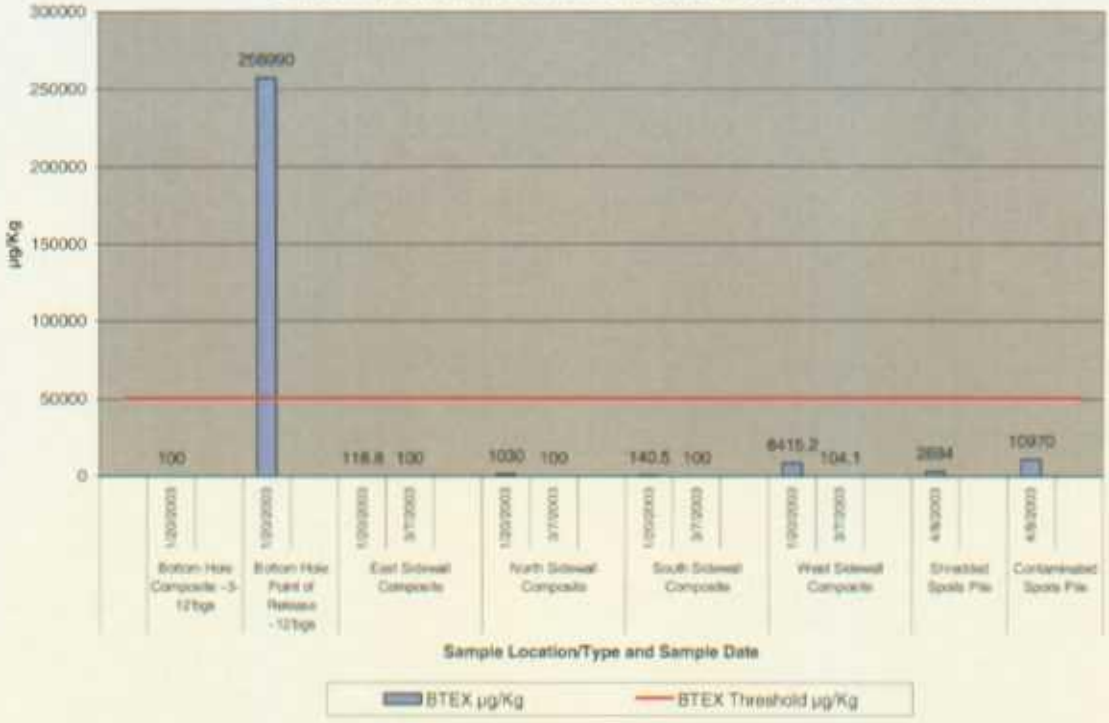
4.0 Subsurface Soil Investigation

The preliminary investigation advanced and sampled 6 boreholes, 5 of which were converted into observation/monitor wells. Soils observed from Borehole 1 (BH1), the leak origin borehole impacted to the ground water interface where product was observed floating atop the aquifer. BH1 was developed into a 4" PVC case recovery well. BH2, BH4, BH5, and BH6 were advanced and sampled at perimeter locations and, to bound the extent of the PSH and dissolved phase hydrocarbon impact, installed as observation/monitor wells, i.e., MW2 (~65' southeast transverse gradient), MW3 (150' down gradient), MW4 (~125 southeast transverse

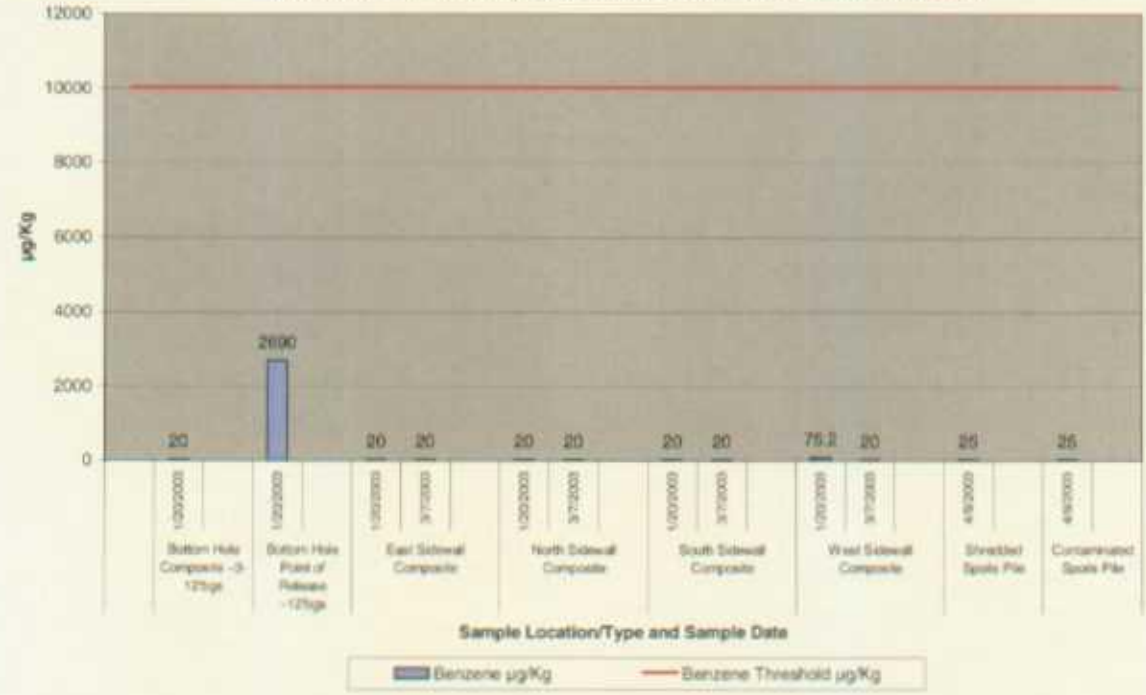
gradient), and MW5 (~100' northwest up gradient). Refusal was encountered at BH3 with BH4 being successfully advanced in the same area. Soil sample analytical data in these soil borings were less than the soil remedial guideline thresholds. During excavation of the contaminated soil, the horizontal extent of CoC impact was observed to taper from the visible surface spill perimeter to the area immediately below the leak origin. The top of the contaminated soil vertical column at 10'bgs is 8,018 ft^2 in the south end of the 19,230 ft^2 excavation. The excavation bottom outside the contaminated soil column area and the sidewalls tested to be at acceptable levels for the CoCs. The site map showing excavation and soil column areas is included in Attachment I. The analytical results are presented and summarized in Attachment III and illustrated below.



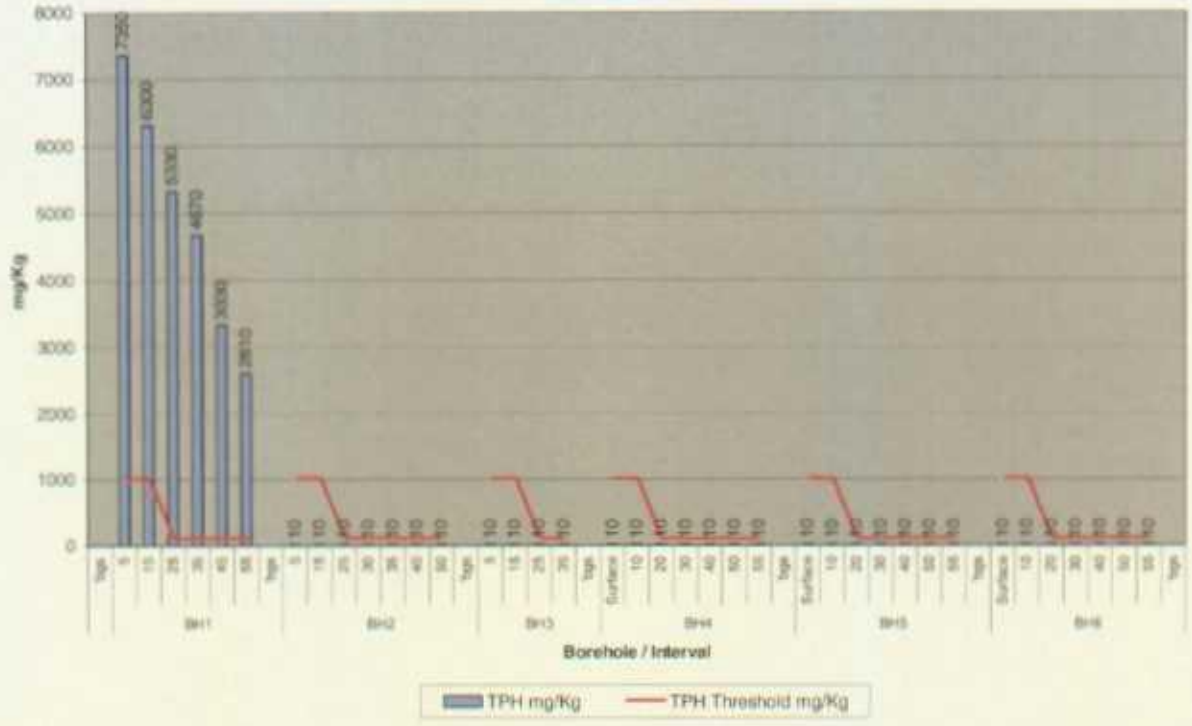
EOTT Energy LLC
Lovington Deep 6" Ref# 2002-10312
Excavation Bottom and Sidewall and Spoils Pile Soil BTEX Delineation



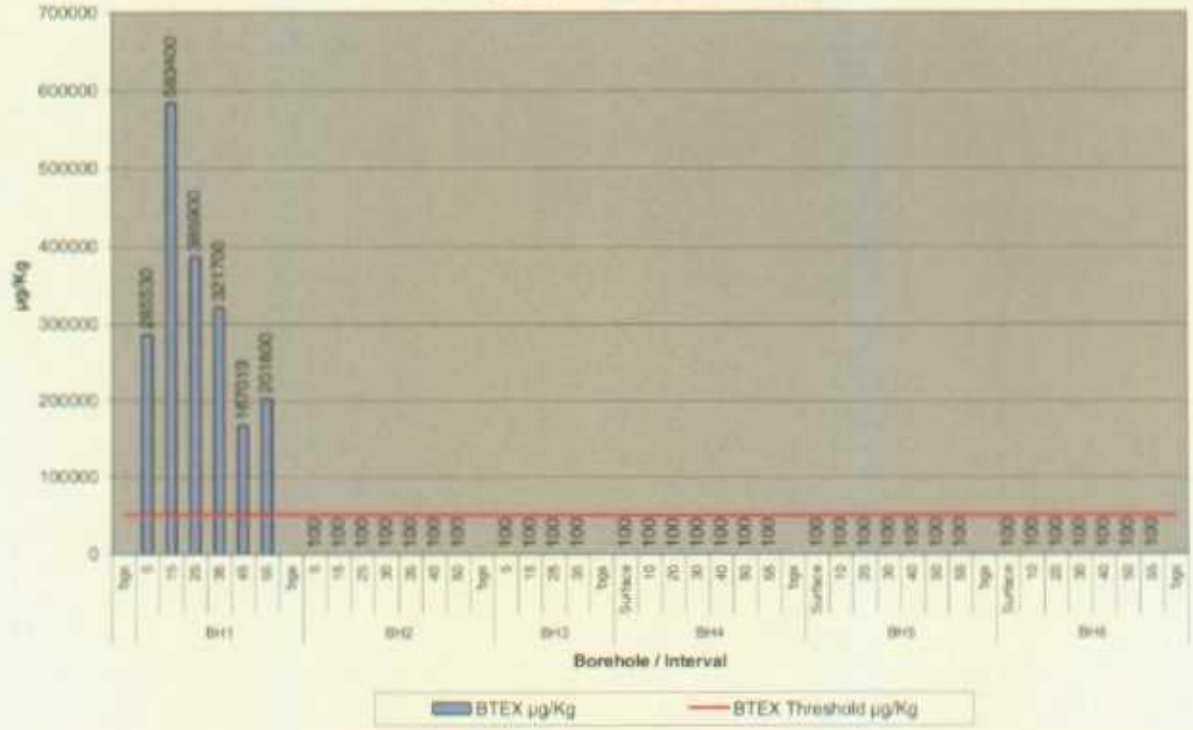
EOTT Energy LLC
Lovington Deep 6" Ref# 2002-10312
Excavation Bottom and Sidewall and Spoils Pile Soil Benzene Delineation

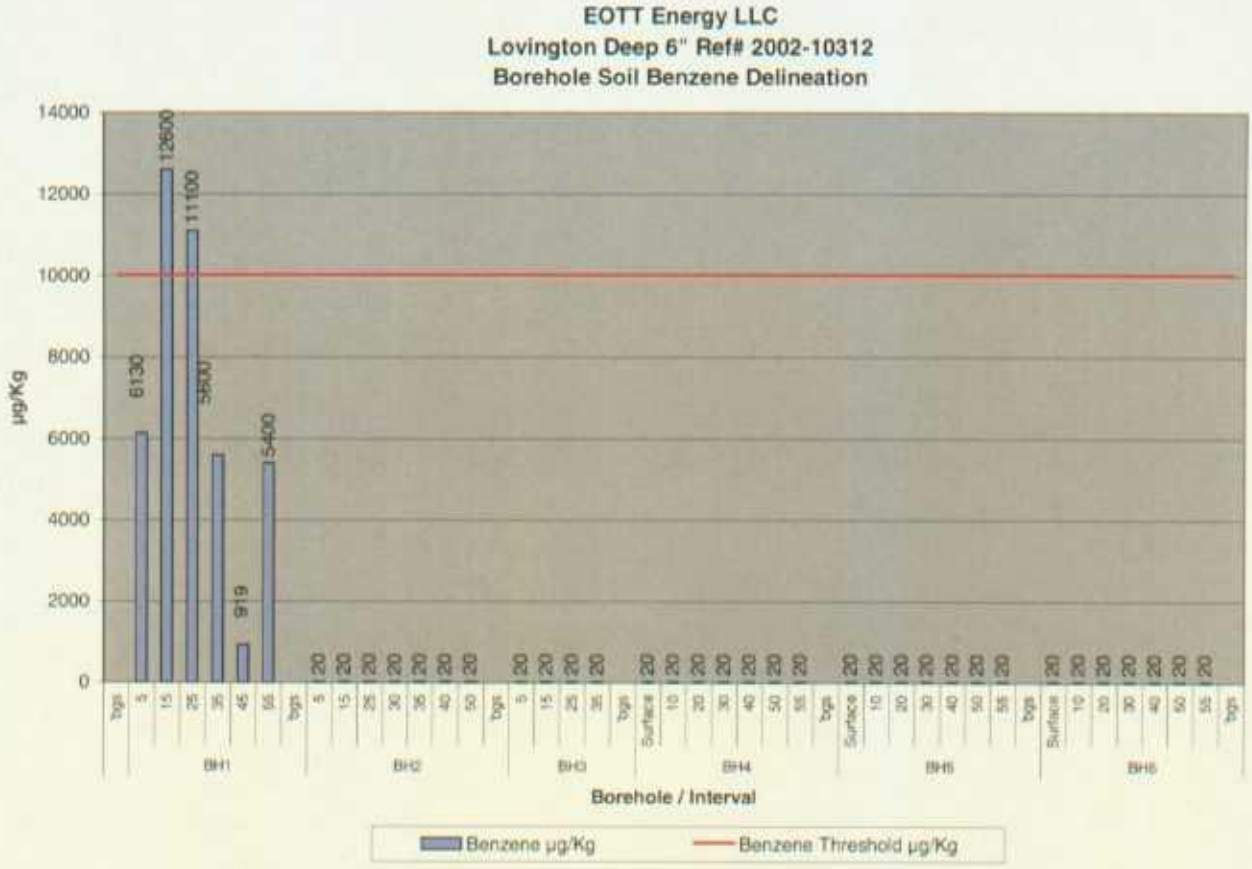


EOTT Energy LLC
Lovington Deep 6" Ref# 2002-10312
TPH Borehole Soil Delineation



EOTT Energy LLC
Lovington Deep 6" Ref# 2002-10312
Borehole Soil BTEX Delineation





5.0 Ground Water Investigation

The preliminary investigation identified ground water impact in excess of the WQCC standards. EOTT will submit a Rule 19 Abatement Plan within 90 days that will address ground water delineation/characterization and remediation.

6.0 Soil Remediation and Risk Assessment Proposal

Impacted soil down to the 10'bgs interval has been excavated with 1,102 yd^3 disposed of and the remaining 10,500 yd^3 processed through a shredder to separate rocks from landfarmable soil, as well as, agitate and aerate so as to homogenize and promote attenuation through blending and volatilization. The table below shows the relative effectiveness of the process;

	TPH[8015m]	BTEX	Benzene
Units	mg/Kg	µg/Kg	µg/Kg
Processed Spoils Pile Soil	1270	2884	<25
Contaminated Spoils Pile Soil	3565	10970	<25

The excavation exposed the top of the contaminated soil column and effectively delineated the horizontal extent of crude oil impact in the near surface and provided a conceptual visualization of the remaining impacted area, i.e. an inverted cone with a defined area of 8,018 ft^2 tapering from ~10'bgs to ~65'bgs,

the ground water interface. The perimeter soil borings suggesting no impact also support the conceptual model. Bottom and sidewall samples indicate that all soil down to ~10'bgs around the contaminated soil column perimeter are at acceptable levels. Results from analysis of a grab sample from just beneath the surface in the center of the soil column are as follows;

	TPH[8015m]	BTEX	Benzene
Units	mg/Kg	µg/Kg	µg/Kg
Excavation Bottom Point of Release	8380	256990	2690

All data is summarized and presented in Attachment III.

6.6 VADSAT Risk Assessment

Based on information collected during the soil delineation phase of the project, EOTT proposes to isolate the remaining crude oil impacted soil by installing an engineered and tested clay barrier supported by a computer simulated risk assessment using the American Petroleum Institute VADSAT 3.0 computer model. To ensure that the simulations are conservative, the highest TPH and BTEX mass concentrations will be used to maximize force of transport. The BTEX mass will be substituted for Benzene, the parameter of transport. Likewise, the infiltration rate will be inputted as positive to accommodate the model, when in reality the local evaporation rate is negative. Given that the ground water has already been impacted by crude oil, the depth of contamination will be set 5' above the ground water interface. All model input variables are presented in Attachment V.

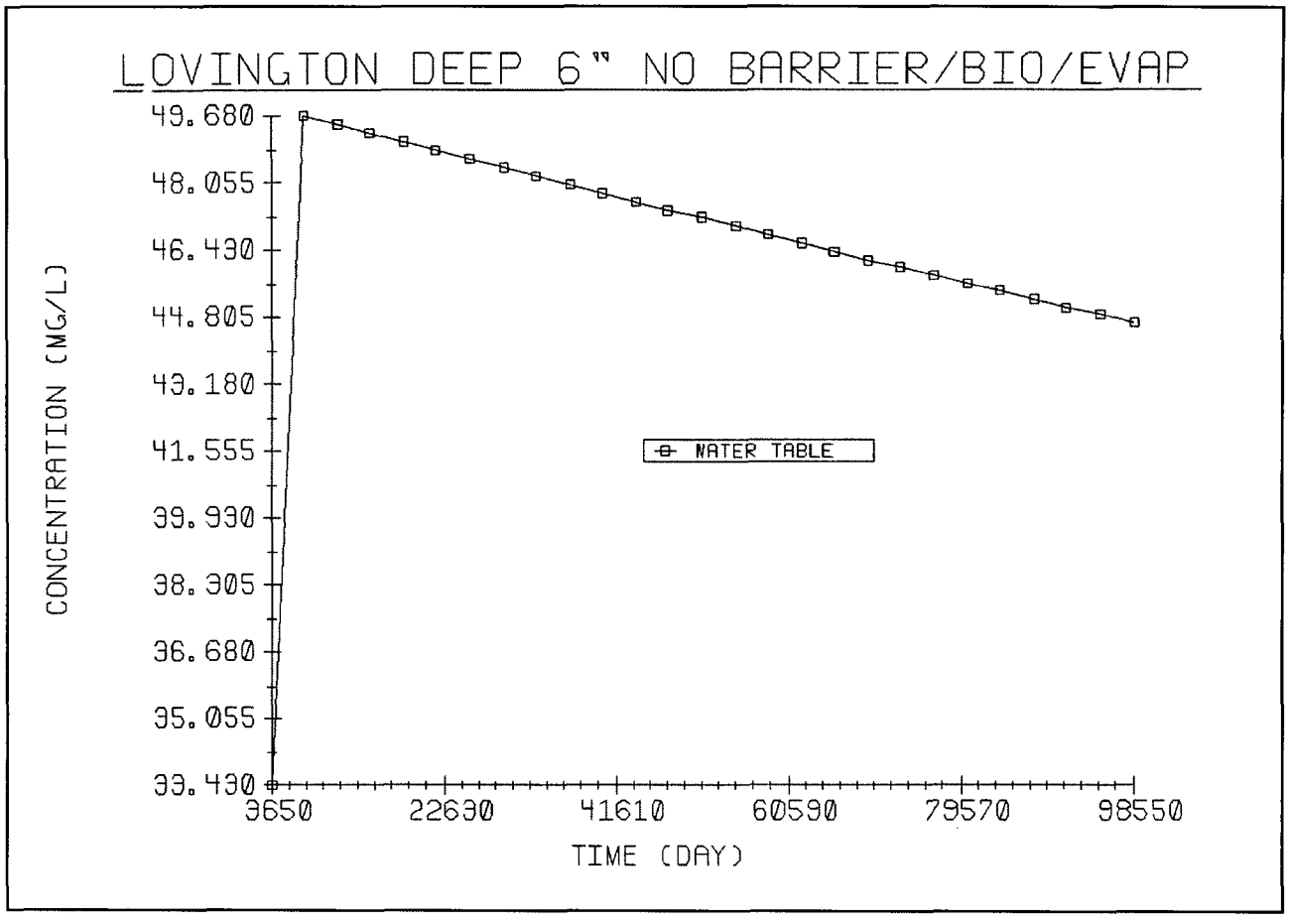
6.7 Simulations

Simulations will be conducted under the following conditions;

- Barrier not present, No Bio-attenuation, No Evaporation
- Barrier present, No Bio-attenuation, No Evaporation
- Barrier present, with Bio-attenuation, with Evaporation

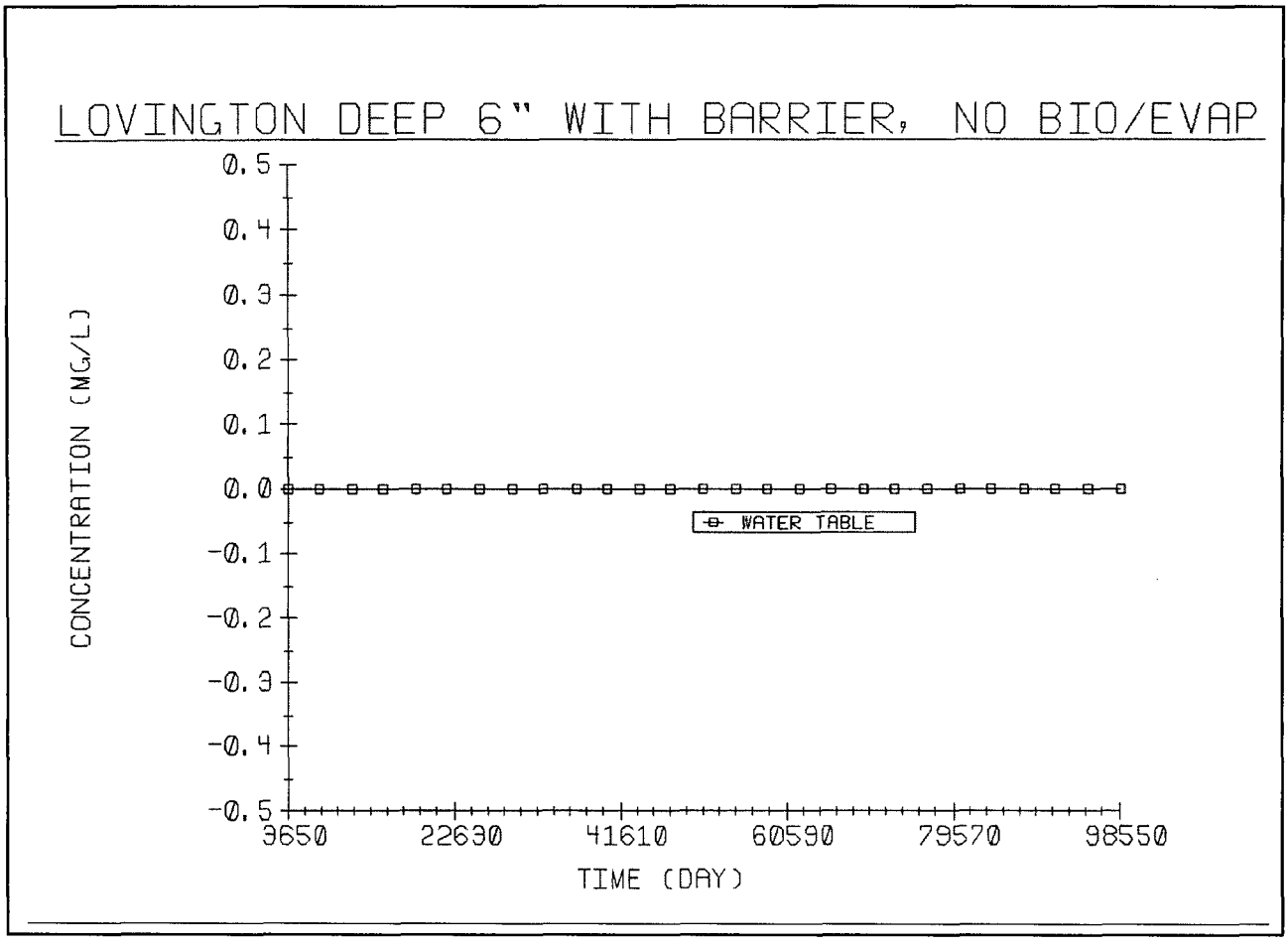
6.7.1 SIMULATION WITH NO BARRIER, BIO-DECAY, OR EVAPORATION

This simulation shows that in 25-30 years, without an engineered barrier, bio-decay, or evaporation, the Benzene source term will impact the ground water at 49.680 mg/L and decrease linearly by dispersion. The chart below illustrates the results.



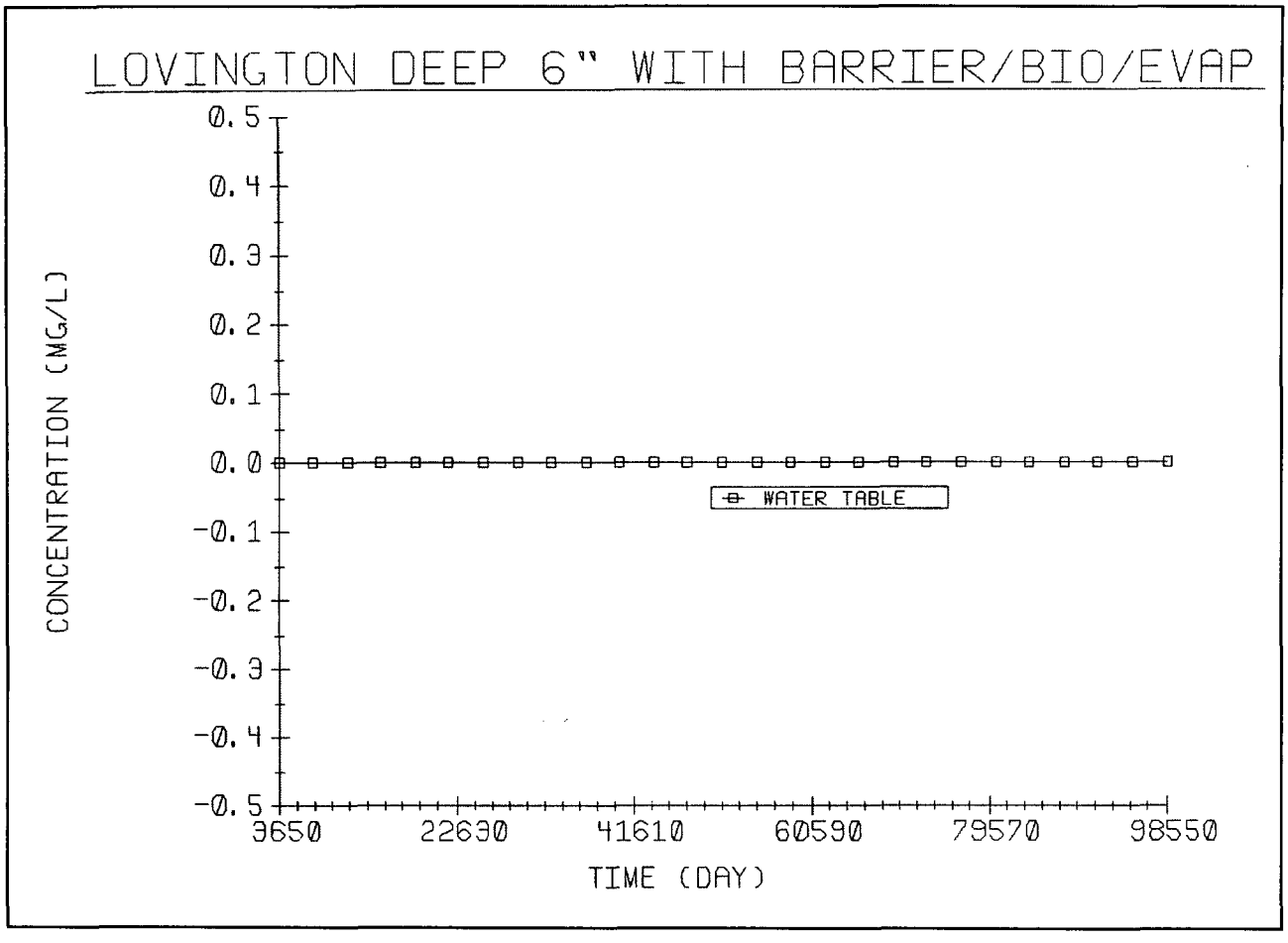
6.7.2 SIMULATION WITH BARRIER, BUT NO BIO-DECAY OR EVAPORATION

This simulation indicates that the barrier alone will prevent the ground water from being impacted further. The chart below illustrates the results.



6.7.3 SIMULATION WITH BARRIER, BIO-DECAY, AND EVAPORATION

This is the most realistic simulation and supports the conclusion that the barrier and natural processes will prevent the remaining crude oil source term from increasing the current ground water contamination. The chart below illustrates the results.



6.8 ENGINEERED BARRIER INSTALLATION AND CERTIFICATION

The perimeter of the barrier will be at least 5' beyond the contaminated soil and be at least 1 feet thick after compaction and installed between the 9'bgs and 10'bgs intervals on top of the contaminated soil column. The barrier will be constructed of clay and compacted to 95% of the Proctor Density as determined by ASTM-D-698. The clay will be tested by an engineering firm to certify and verify acceptable compaction and moisture content. The lift will be tested in two locations at points central to each lateral half of the barrier. The clay barrier will be contoured to shed water.

6.9 BACKFILLING

After the clay barrier is certified as adequate, it is proposed to backfill the excavation with the remediated soil and rock. Every 1,000 yd^3 batch will be tested to ensure the Data Objectives in Section 6.9.2 have been achieved.

6.9.1 SAMPLING PRIOR TO EMPLACEMENT

Prior to testing, approximately 1,000 yd^2 of contaminated soil will be spread into a 6" lift and a VOC headspace survey conducted at 5 points within the lift, i.e., the 4 quadrants and the center. If the VOC headspace of all samples from a lift are <100.0 ppm, the soil will be deemed acceptable for emplacement and emplaced in the excavation, if >100.0 ppm, then the two sites with the highest headspace reading will be grab sampled, refrigerated and sent to the laboratory for TPH^{8015m} and BTEX analysis. Soil that exceeds the Data Objectives in Section 6.9.2 will be managed separately.

6.9.2 DATA OBJECTIVES

- Contaminated soil that is monitored to have a VOC headspace reading of <100.0 ppm will be deemed acceptable and placed in the excavation.

- It is proposed that soil determined by laboratory testing to be <2,000 mg/Kg TPH^{8015m}, <10.00 mg/Kg Benzene, and <50.00 mg/Kg BTEX be deemed acceptable and placed in the excavation.

6.9.3 EMPLACEMENT AND COMPACTION

The soil will be emplaced in 2 yd^3 increments with a front-end loader and spread. Compaction will occur during the backfilling process as the loader motors back and forth.

6.10 ROOT ZONE RESTORATION

Approximately 1,102 yd^3 of local clean soil will top off the area followed by contouring to the natural grade. At a time acceptable to the landowner, the site will be reseeded with a seed mix preferred by the landowner.

6.11 QUALITY ASSURANCE/QUALITY CONTROL

To ensure viable unperturbed samples and credibility of the laboratory results the following quality parameters must be achieved to warrant acceptability and usability of data.

6.11.1 SAMPLE HANDLING

Soil and water samples will be collected and prepared in accordance with accepted ASTM and EPA SW846 methods.

6.11.2 SAMPLING PROTOCOLS

1. Decontaminate sampling equipment and area with Alconox and distilled water after each sample.
2. Prepare samples and refrigerate as soon as practicable.

Duplicates or blanks may be submitted to the laboratory to establish reproducibility and identify laboratory contamination, respectively.

6.11.3 SAMPLE CONTAINERS

Laboratory and field analyses of soil and water require specific containers and are listed in the matrix below.

	TPH	BTEX	VOC Headspace	Metals	PAH	General Chemistry
Soil	4 oz. Jars with Teflon seal	4 oz. Jars with Teflon seal	1-gallon Ziplock® bags			
Water	1 liter amber glass w/HCL	2-40 ml VOA vials w/ HCL		16 oz. Plastic w/ 1ml HNO_3	1 liter Amber Glass	1 liter Plastic

6.11.4 SAMPLE CUSTODY

All analytical request forms will be completed and signatured by EPI as sampler. EPI personnel will ascension the samples to the laboratory sample-receiving personnel under chain-of-custody signature.

6.11.5 QUALITY CONTROL SAMPLES

Quality control samples will be analyzed to ensure data quality.

6.11.5.1 Field Blank

A field blank for soil or water is not deemed necessary.

6.11.5.2 Equipment Blank

None will be collected.

6.11.5.3 Field Duplicate or Co-located Samples

For water and soil samples, one random duplicate or co-located sample will be collected for analysis for every 1-10 samples or each day a sampling event occurs.

6.11.5.4 Laboratory Duplicate

The laboratory will be asked to use one of the soil samples as part of the lab's internal Quality Control analyses and report the results for reproducibility of reported results, i.e., to verify duplicate preparation and analysis.

6.11.5.5 Trip Blank

A laboratory prepared trip blank will accompany each water sample batch.

6.12 FIELD MEASUREMENTS

The VOC Headspace concentration for each soil sample will be measured. The instrument used will be the Ultra-Rae PID manufactured by Rae Systems. The calibration gas will be 100.0 ppm isobutylene standard from Scott Specialty Gases, Freemont, Colorado.

6.12.1 Equipment Calibration and Quality Control

The PID will be calibrated at least 3 times daily and checked with the calibration gas hourly. When a check with the calibration gas indicates the instrument reading is 10 ppm too high or low it will be calibrated. Variation in the daytime ambient temperature will cause the variation.

6.12.2 Equipment Maintenance and Decontamination

All sampling and survey equipment will be routinely decontaminated between samples. Nitrile gloves will be worn and changed with each sampling iteration.

6.13 Ground Water Level Measurements

Ground water and PSH level measurement will be collected with an accurate interface meter at each borehole where ground water is encountered and each observation/monitor well. Levels will be recorded as "feet below ground surface" to the nearest ".01 ft." and will be recorded as "TOC," i.e., top of north side of casing. Decontamination will occur before and after each well measurement.

6.14 Analyses

Soil and ground water will be analyzed in accordance with the following EPA Methods.

The analytical suite for soil samples will include;

- TPH (EPA method 8015M)
- BTEX (EPA method 8020 or equivalent)

The analytical suite for water samples may include:

- Total Organic Carbon SW846-9056
- Metals (EPA method 600/4-79-020) New Mexico WQCC and EPA RCRA as listed
- BTEX (EPA method 8021B)
- Total Dissolved Solids (EPA method 150.1)
- Polynuclear Aromatic Hydrocarbon (PAH) (EPA method 8270)

6.15 Sample Identification

An example of the sample identification scheme is as follows

Medium-Soil or Water	Company-EOTT	Site: Lovington Deep 6"	Date 6-3-2003	Location: Lift#-Quad	Designation: Duplicate
S	E	LD6	60303	L2-SW	D

Example: SELD660303L2-SWD

6.16 Data Quality Objectives

All data will be reviewed within the context of documented and verified analytical information derived from quality control samples. If data is within the

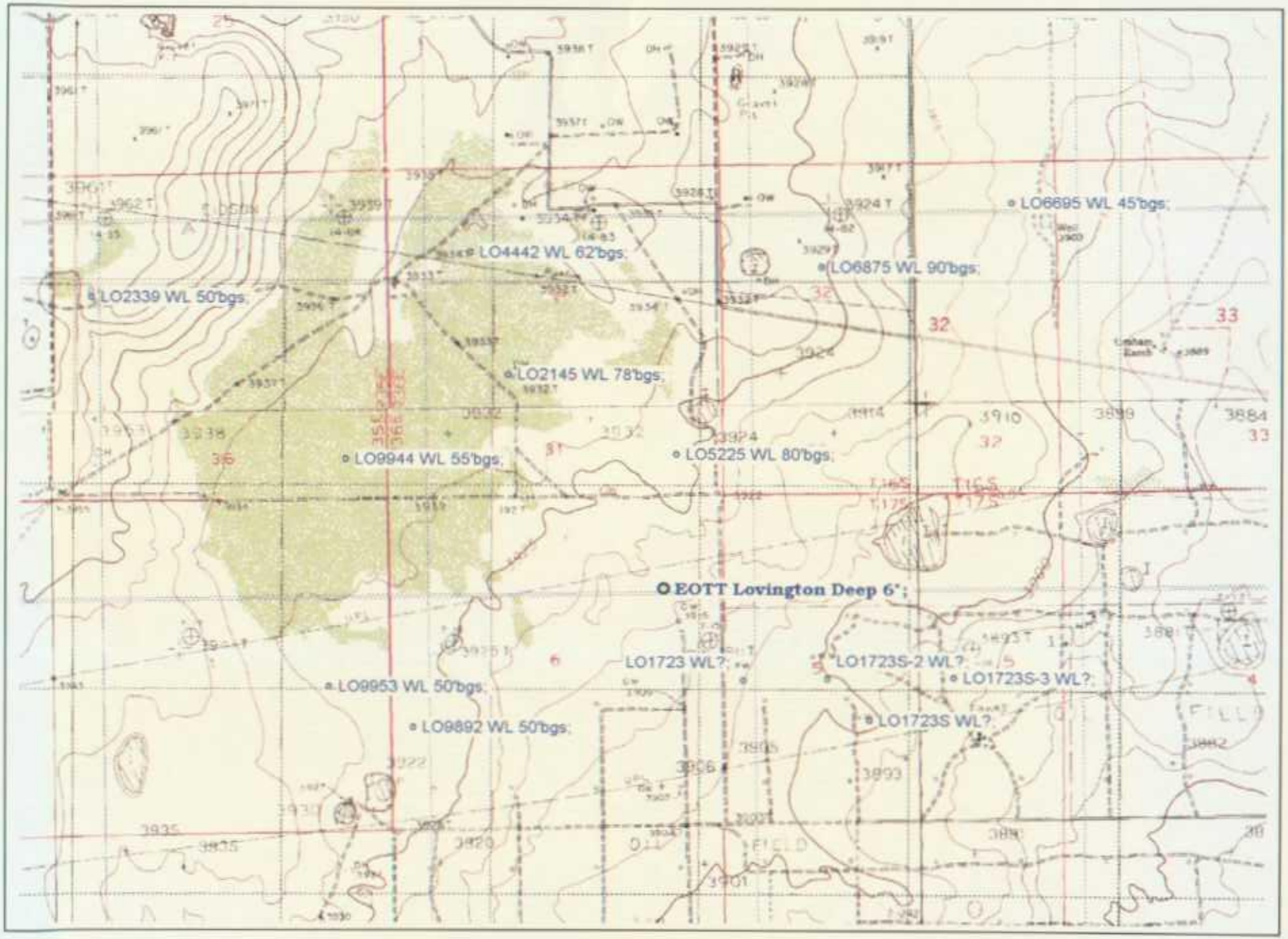
specifications it will be deemed quantitative and acceptable for use in making environmental management decisions.

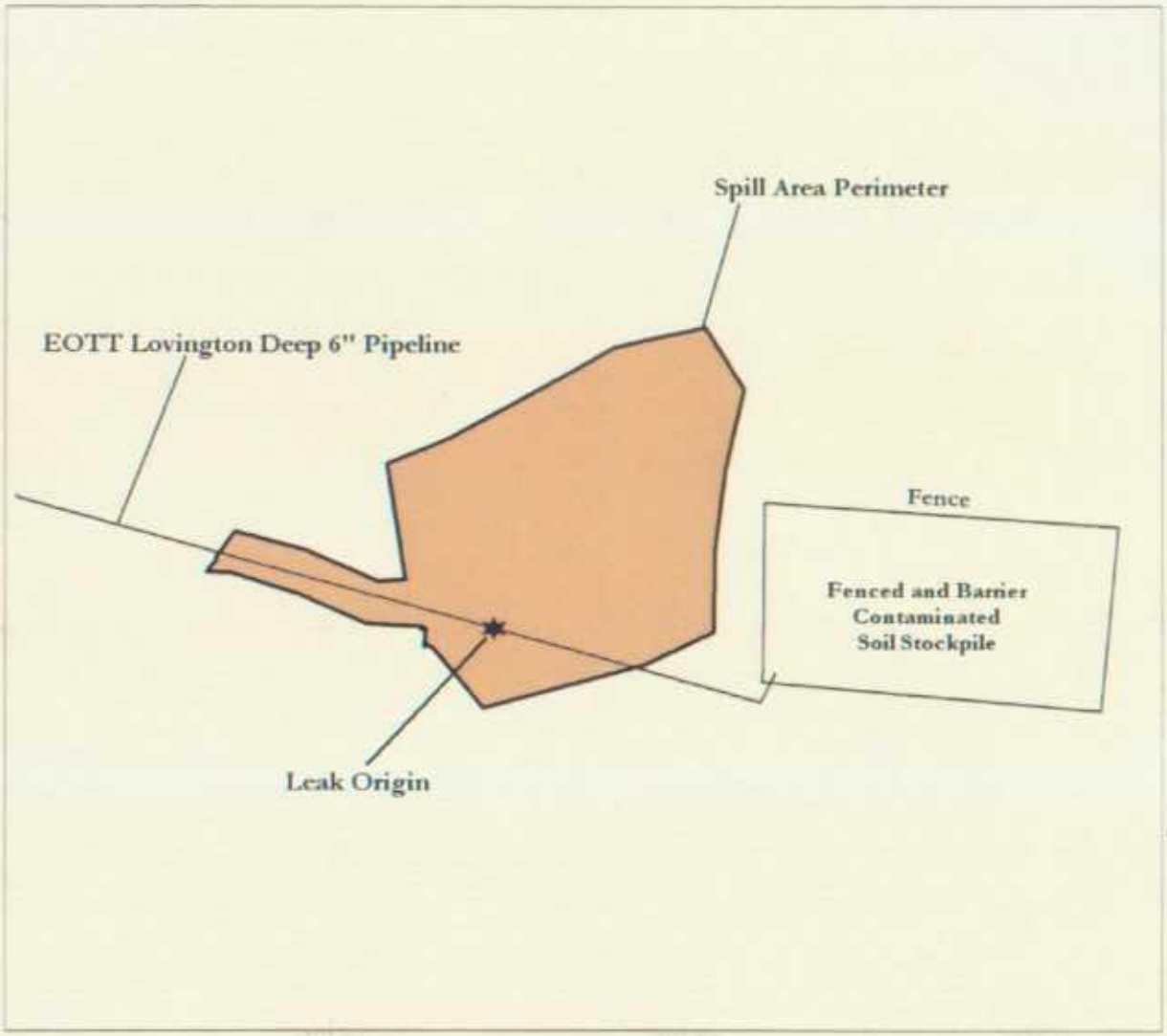
- Laboratory data must have extraction recovery for TPH, BTEX and general chemistry parameters ≤25.0%. Or a "%Extraction Accuracy" between 75 and 125%.
- Laboratory data must have <25% Relative Percent Difference or a "%Instrument Accuracy" between 75 and 125% for field or laboratory duplicates.
- Field headspace analyses must be supported with instrument calibration data and calibration gas certification.

7.0 Concluding Comments and Request

On-site remediation of contaminated soil down to 10'bgs has been effective in reducing the CoC concentrations. Isolating the remaining crude oil contaminated soil with a clay barrier will be protective of the ground water and is supported by the conservative risk assessment. The barrier will also serve to isolate the remediated soil proposed to be used as backfill. Lastly, the root zone soil removed from the site will be replaced; restoring the site to agricultural productivity. This soil remediation risk assessment proposal will be protective of the local ground water and will restore the site to agricultural productivity. It is requested that the NMOCD approve this plan, also acknowledging that EOTT will be submitting a Rule 19 Abatement Plan to address the ground water issues.

ATTACHMENT I: SITE MAPS


LO6695 WL 45'bgs;
LO4442 WL 62'bgs;
LO6875 WL 90'bgs;
LO2339 WL 50'bgs;
LO2145 WL 78'bgs;
LO9944 WL 55'bgs;
LO5225 WL 80'bgs;
EOTT Lovington Deep 6";
LO1723 WL?;
LO1723S-2 WL?;
LO1723S-3 WL?;
LO9953 WL 50'bgs;
LO9892 WL 50'bgs;
LO1723S WL?;



EOTT ENERGY
PIPELINE
LOVINGTON DEEP
6"
UL-H
SE/4 OF THE
NE/4
SECTION 6
T17S R36E
LEA CO. NM
AFFECTED AREA
~6,000 SQFT

N

SCALE 1:500

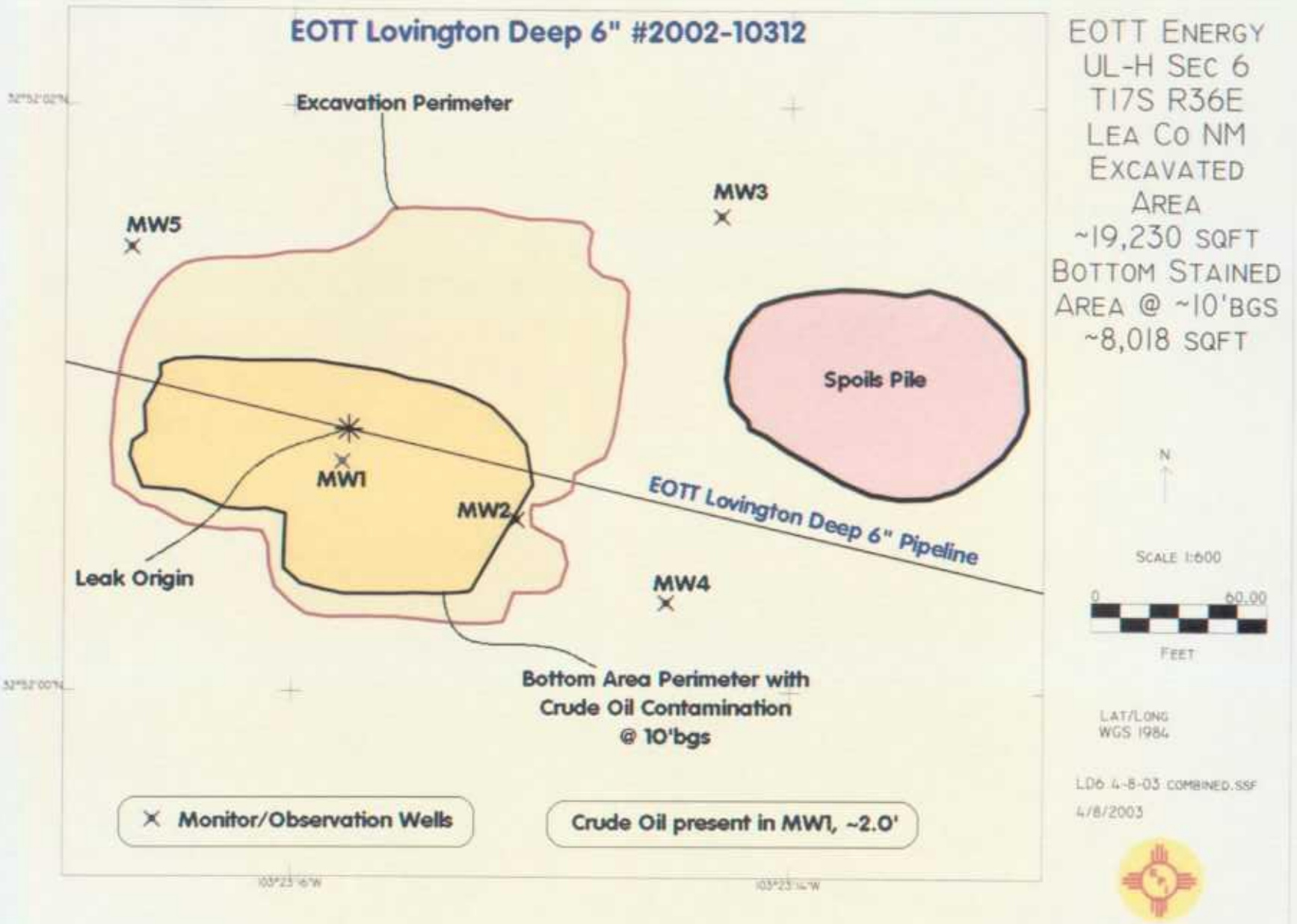
0 50.00

FEET

UNIVERSAL TRANSVERSE MERCATOR
13 NORTH
NAD 1983 HPGN (NEW MEXICO)

LOVINGTONDEEP6INCH.SSF

12/12/2002


EOTT Lovington Deep 6" #2002-10312
Excavation Perimeter
MW3
MW5
Spoils Pile
MW1
MW2
EOTT Lovington Deep 6" Pipeline
Leak Origin
MW4
Bottom Area Perimeter with
Crude Oil Contamination
@ 10'bgs
Monitor/Observation Wells
Crude Oil present in MW1, ~2.0'
EOTT ENERGY
UL-H SEC 6
T17S R36E
LEA CO NM
EXCAVATED
AREA
~19,230 SQFT
BOTTOM STAINED
AREA @ ~10'BGS
~8,018 SQFT
N
SCALE 1:600
0
60.00
FEET
LAT/LONG
WGS 1984
LD6 4-8-03 COMBINED.SSF
4/8/2003

ATTACHMENT II: SITE PHOTOGRAPHS


EOTT Energy Pipeline
Lovington Dogg 6"
UL-H SE/4 of the NE/4 Section 6 T17S R36E
Lea County New Mexico
12/12/2002 12:20pm


EOTT Energy Pipeline
Lovington Dogg 6"
UL-H SE/4 of the NE/4 Section 6 T17S R36E
Lea County New Mexico
12/12/2002 11:09am


12/12/2002 11:09am


12/12/2002 11:09am

EOTT Lovington Deep 6" MW locations
(looking west)

ATTACHMENT III: ANALYTICAL REPORTS AND SUMMARIES

EOTT Energy LLC
Lovington Deep 6" #2002-10312
Excavation Bottom and Sidewall and Spoils Pile Soil Delineation Data

Sample Location	Sampling Interval [1]bgs[1]	Sample Identification	Sample Date	Lithology	HEADSPACE VOC[2] (ppm)	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX µg/Kg	Benzene µg/Kg	Toluene µg/Kg	Ehyl Benzene µg/Kg	m,p-Xylene µg/Kg	o-Xylene µg/Kg
Bottom Hole Excavation	Composite	SELD612003BHC	1/19/1999	Caliche/Sand	N/A	5	19.6	24.6	*100*	*20*	*20*	*20*	*20*	*20*
Bottom Hole Point of Release	Grab	SELD612003BHPOR	1/19/1999	Caliche/Sand	N/A	4070	4310	**8380**	**256990**	2690	69600	39700	105000	40000
East Sidewall	Composite	SELD612003ESW	1/19/1999	Caliche/Sand	N/A	6.47	364	370.47	118.8	*20*	*20*	*20*	38.8	*20*
	Composite	SELD6030703ESW	3/6/1999	Caliche/Sand	N/A	5	5	*10*	*100*	*20*	*20*	*20*	*20*	*20*
North Sidewall	Composite	SELD612003NSW	1/19/1999	Caliche/Sand	N/A	400	1090	**1490**	1030	*20*	145	162	447	256
	Composite	SELD6030703NSW	3/6/1999	Caliche/Sand	N/A	5	5	*10*	*100*	*20*	*20*	*20*	*20*	*20*
South Sidewall	Composite	SELD612003SSW	1/19/1999	Caliche/Sand	N/A	435	4310	**4745**	140.5	*20*	*20*	*20*	42.7	37.8
	Composite	SELD6030703SSW	3/6/1999	Caliche/Sand	N/A	5	5	*10*	*100*	*20*	*20*	*20*	*20*	*20*
West Sidewall	Composite	SELD612003WSW	1/19/1999	Caliche/Sand	N/A	740	5920	**6660**	8415.2	75.2	1210	1010	4270	1850
	Composite	SELD6030703WSW	3/6/1999	Caliche/Sand	N/A	5	5	*10*	104.1	*20*	24.1	*20*	*20*	*20*
Shredded Spoils Pile	Composite	SELD64803CSP	4/7/1999	Caliche/Sand	N/A	180	1090	1270	2884	*25*	117	283	1550	909
Contaminated Spoils Pile	Composite	SELD64803SSP	4/7/1999	Caliche/Sand	N/A	495	3070	3565	10970	*25*	815	1140	5890	5100

100 ppm Isobutylene calibration gas = 101 ppm

[1]bgs = feet below ground surface

[2]VOC-Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics (C_6-C_{12})

[4]DRO-Diesel Range Organics (C_{12}-C_{28})

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit

[8]N/A Not Analyzed

EOTT Energy LLC
Lovington Deep 6" #2002-10312
Borehole (BH) Soil Delineation Data

Borehole#	Sampling Interval [1] bgs	Sample Identification	Sample Date	Lithology	HEADSPACE VOC [2] (ppm)	GRO [3] mg/Kg	DRO [4] mg/Kg	TPH [5] mg/Kg	BTEX µg/Kg	Benzene µg/Kg	Toluene µg/Kg	Ehryl Benzene µg/Kg	m,p-Xylene µg/Kg	o-Xylene µg/Kg
BH1	5	SEL6122702BH1 5'	12/27/2002	Caliche/Sand	1028	3380	3970	**7350**	**285530**	6130	60200	20200	137000	62000
	15	SEL6122702BH1 15'	12/27/2002	Caliche	1200	3250	3050	**6300**	**583400**	**12600**	204000	95300	201000	70500
	25	SEL6122702BH1 25'	12/27/2002	Caliche	1100	2610	2720	**5330**	**385900**	**11100**	136000	61800	131000	46000
	35	SEL6122702BH1 35'	12/27/2002	Sand	1056	2000	2670	**4670**	**321700**	5600	102000	53700	118000	42400
	45	SEL6122702BH1 45'	12/27/2002	Sand	657	1330	2000	**3330**	**167019**	919	42200	29800	68500	25600
	55	SEL6122702BH1 55'	12/27/2002	Sand	700	1100	1510	**2610**	**201800**	5400	70500	31700	68700	25500
BH2	5	SEL6123002BH2 5'	12/30/2002	Caliche/Sand	3.1	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	15	SEL6123002BH2 15'	12/30/2002	Caliche	2.6	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	25	SEL6123002BH2 25'	12/30/2002	Caliche	1	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	30	SEL6123002BH2 30'	12/30/2002	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	35	SEL6123002BH2 35'	12/30/2002	Sand	0.2	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	40	SEL6123002BH2 40'	12/30/2002	Sand	0.5	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	50	SEL6123002BH2 50'	12/30/2002	Sand	0.7	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
BH3	5	SEL6123002BH3 5'	12/30/2002	Caliche/Sand	2	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	15	SEL6123002BH3 15'	12/30/2002	Caliche	1.5	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	25	SEL6123002BH3 25'	12/30/2002	Caliche	0.1	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	35	SEL6123002BH3 35'	12/30/2002	Sand	0.2	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
BH4	Surface	SEL6123102BH4 SUR	12/30/1998	Caliche/Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	10	SEL6123102BH4 10'	12/30/1998	Caliche	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	20	SEL6123102BH4 20'	12/30/1998	Caliche	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	30	SEL6123102BH4 30'	12/30/1998	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	40	SEL6123102BH4 40'	12/30/1998	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	50	SEL6123102BH4 50'	12/30/1998	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	55	SEL6123102BH4 55'	12/30/1998	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
BH5	Surface	SEL61203BH5SUR	1/1/1999	Caliche/Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	10	SEL61203BH5 10'	1/1/1999	Caliche	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	20	SEL61203BH5 20'	1/1/1999	Caliche	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	30	SEL61203BH5 30'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	40	SEL61203BH5 40'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	50	SEL61203BH5 50'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	55	SEL61203BH5 55'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
BH6	Surface	SEL61203BH6SUR	1/1/1999	Caliche/Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	10	SEL61203BH6 10'	1/1/1999	Caliche	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	20	SEL61203BH6 20'	1/1/1999	Caliche	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	30	SEL61203BH6 30'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	40	SEL61203BH6 40'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	50	SEL61203BH6 50'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*
	55	SEL61203BH6 55'	1/1/1999	Sand	0	*5*	*5*	*10*	*100*	*20*	*20*	*20*	*20*	*20*

100 ppm Isobutylene calibration gas = 101 ppm

[1] bgs – feet below ground surface

[2] VOC-Volatile Organic Contaminants/Constituents

[3] GRO-Gasoline Range Organics (C_6–C_{12})

[4] DRO-Diesel Range Organics (C_{12}–C_{28})

[5] TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6] Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter.

[7] Italicized values are < the instrument detection limit.

[8] N/A Not Analyzed.

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137985 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 5'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/27/2002 **Time:** 08:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	3970	mg/Kg	50	<50	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	3380	mg/Kg	50	<50	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	6130	µg/Kg	500	<500	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	28200	µg/Kg	500	<500	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	137000	µg/Kg	500	<500	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	62000	µg/Kg	500	<500	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	68200	µg/Kg	500	<500	01/07/03	8260b	---	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Lester

Richard Lester

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6122702BH1 5'	**Report#/Lab ID#:** 137985 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 25X	D
Toluene-d8	8260b	none/diluted	diluted @ 25X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137985 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 5'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC
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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137986 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 15'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/27/2002 **Time:** 08:56

REPORT OF ANALYSIS — QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	3050	mg/Kg	50	<50	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	3250	mg/Kg	50	<50	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	12600	µg/Kg	5000	<5000	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	95300	µg/Kg	5000	<5000	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	261000	µg/Kg	5000	<5000	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	70500	µg/Kg	5000	<5000	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	204000	µg/Kg	5000	<5000	01/07/03	8260b	---	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6122702BH1 15'	**Report#/Lab ID#:** 137986 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137986 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6'
Sample Name: SEL6122702BH1 15'

Sample Temperature/Condition <=6°C
The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137987 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 25'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/27/2002 **Time:** 09:16

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	2720	mg/Kg	50	<50	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	2610	mg/Kg	50	<50	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	11100	µg/Kg	5000	<5000	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	63800	µg/Kg	5000	<5000	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	131000	µg/Kg	5000	<5000	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	46000	µg/Kg	5000	<5000	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	136000	µg/Kg	5000	<5000	01/07/03	8260b	---	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Lauter

Richard Lauter

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are *J* = analyte potentially present between the PQL and the MDL. *B* =Analyte detected in associated method blank(s). *S1* =MS and/or MSD recovery exceed advisory limits. *S2* =Post digestion spike (PDS) recovery exceeds advisory limit. *S3* =MS and/or MSD and PDS recoveries exceed advisory limits. *P* =Precision higher than advisory limit. *M* =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSYS
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137987
Attn: Pat McCasland	**Sample Name:** SEL6122702BH1 25'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 137987 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 25'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137988 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 35'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/27/2002 **Time:** 09:40

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	2670	mg/Kg	50	<50	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	2000	mg/Kg	50	<50	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	5600	µg/Kg	5000	<5000	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	53700	µg/Kg	5000	<5000	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	118000	µg/Kg	5000	<5000	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	42400	µg/Kg	5000	<5000	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	102000	µg/Kg	5000	<5000	01/07/03	8260b	---	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSYS INC
3512 Mantopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6122702BH1 35'	**Report#/Lab ID#:** 137988 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 250X	D
Toluene-d8	8260b	none/diluted	diluted @ 250X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137988 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 35'

Sample Temperature/Condition <=6°C
The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation
☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion
A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137989 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 45'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/27/2002 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	2000	mg/Kg	50	<50	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	1330	mg/Kg	50	<50	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	919	µg/Kg	500	<500	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	29800	µg/Kg	500	<500	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	68500	µg/Kg	500	<500	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	25600	µg/Kg	500	<500	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	42200	µg/Kg	500	<500	01/07/03	8260b	---	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137989
Attn: Pat McCasland	**Sample Name:** SEL6122702BH1 45'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 25X	D
Toluene-d8	8260b	none/diluted	diluted @ 25X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137989 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 45'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

_____

_____

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137990 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 55'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/27/2002 **Time:** 10:15

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	1510	mg/Kg	50	<50	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	1100	mg/Kg	50	<50	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	5400	µg/Kg	500	<500	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	31700	µg/Kg	500	<500	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	68700	µg/Kg	500	<500	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	25500	µg/Kg	500	<500	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	70500	µg/Kg	500	<500	01/07/03	8260b	---	5.4	89.9	103.5	100.5

Respectfully Submitted,
Richard Laster
Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137990
Attn: Pat McCasland	**Sample Name:** SEL6122702BH1 55'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	none/diluted	diluted @ 25X	D
Toluene-d8	8260b	none/diluted	diluted @ 25X	D

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137990 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6122702BH1 55'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
Toluene-d8 Toluene-d8	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137991 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 5'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 08:30

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7.2	102.5	84.5	97.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137991
Attn: Pat McCasland	**Sample Name:** SEL6123002BH2 5'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	58.8	50-150	---
p-Terphenyl	8015 mod.	57.9	50-150	---
1,2-Dichloroethane-d4	8260b	106	65-115	---
Toluene-d8	8260b	101	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

AnalySys Inc
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137992 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 15'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 09:00

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7.2	102.5	84.5	97.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH2 15'	**Report#/Lab ID#:** 137992 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	83.9	50-150	---
p-Terphenyl	8015 mod.	94	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	104	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137993 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 25'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 09:30

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7.2	102.5	84.5	97.5

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH2 25'	**Report#/Lab ID#:** 137993 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	61	50-150	---
p-Terphenyl	8015 mod.	63.9	50-150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	106	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137994 **Report Date:** 01/14/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 30'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 10:00

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7.7	90.5	100.2	97.6
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	2	109.1	111.4	116
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	0.3	101	103.1	105.1
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	1.1	106.8	110.1	112.7
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7	93.9	103.9	100.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

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3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137994
Attn: Pat McCasland	**Sample Name:** SEL6123002BH2 30'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	68.6	50-150	---
p-Terphenyl	8015 mod.	73.6	50-150	---
1,2-Dichloroethane-d4	8260b	92.4	65-115	---
Toluene-d8	8260b	97.4	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/14/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137995 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 35'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 10:30

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	---	12.9	84.4	114.3	95.7
TPH by GC (as diesel-ext)	---	---	---	---	01/06/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/06/03	8015 mod.	J	10.3	77.9	95.4	106.7
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	J	4	93.6	105.4	106.3
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	---	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH2 35'	**Report#/Lab ID#:** 137995 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	105	50-150	---
p-Terphenyl	8015 mod.	113	50-150	---
1,2-Dichloroethane-d4	8260b	115	65-115	---
Toluene-d8	8260b	114	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137995 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 35'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

ANALYSYS INC

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137996 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 40'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 11:00

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/08/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/08/03	8260b	---	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/08/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/08/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/08/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/08/03	8260b	---	7.2	102.5	84.5	97.5

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Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH2 40'	**Report#/Lab ID#:** 137996 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	93.1	50-150	---
p-Terphenyl	8015 mod.	96.8	50-150	---
1,2-Dichloroethane-d4	8260b	92.6	65-115	---
Toluene-d8	8260b	101	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137997 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 50'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 11:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	J	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	7.2	102.5	84.5	97.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSIS, INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137997
Attn: Pat McCasland	**Sample Name:** SEL6123002BH2 50'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	99.7	50-150	---
p-Terphenyl	8015 mod.	105	50-150	---
1,2-Dichloroethane-d4	8260b	92	65-115	---
Toluene-d8	8260b	100	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137997 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH2 50'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137998 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 5'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 01:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	7.2	102.5	84.5	97.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/13/03

ANALYSIS, INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH3 5'	**Report#/Lab ID#:** 137998 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	87.7	50-150	---
p-Terphenyl	8015 mod.	93.7	50-150	---
1,2-Dichloroethane-d4	8260b	95.4	65-115	---
Toluene-d8	8260b	102	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137998 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 5'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 137999 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 15'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 02:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	J	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	7.2	102.5	84.5	97.5

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Page#: 1 **Report Date:** 01/13/03

ANALYSIS Inc.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312 Lovington Deep 6"	**Report#/Lab ID#:** 137999
Attn: Pat McCasland	**Sample Name:** SEL6123002BH3 15'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	97	50-150	---
p-Terphenyl	8015 mod.	104	50-150	---
1,2-Dichloroethane-d4	8260b	95.2	65-115	---
Toluene-d8	8260b	99.1	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 137999 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 15'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138000 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 25'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 02:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	J	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	7.2	102.5	84.5	97.5

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Respectfully Submitted,

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Page#: 1 **Report Date:** 01/13/03

ANALYSIS INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH3 25'	**Report#/Lab ID#:** 138000 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	68.2	50-150	---
p-Terphenyl	8015 mod.	59.1	50-150	---
1,2-Dichloroethane-d4	8260b	103	65-115	---
Toluene-d8	8260b	104	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 138000 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 25'

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

ANALYSYS INC

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138001 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 35'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/30/2002 **Time:** 03:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/08/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	J	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
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Page#: 1 **Report Date:** 01/13/03

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123002BH3 35'	**Report#/Lab ID#:** 138001 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	88.3	50-150	---
p-Terphenyl	8015 mod.	92.8	50-150	---
1,2-Dichloroethane-d4	8260b	93	65-115	---
Toluene-d8	8260b	98.8	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 138001 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123002BH3 35'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:

Company Name: EPI
Address: PO Box 1558
City: EUNICE State: NM Zip: 88231
ATTN: PAT MCCLELLAND
Phone: 505 394 3481 Fax: 505 394 2601

Bill to (if different):
Company Name: EOTT ENERGY
Address:
City: Midland State: TX Zip:
ATTN: FRANK HERNANDEZ
Phone: Fax:

4221 Freidrich Lane, Suite J, Austin, TX 7
(512) 444-5896

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2002-10312 LOVINGTON DEEP 6" Sampler: Cody Mobley

Analyses Requested (1)
Please attach explanatory information as re

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015 NM	BTEX 8021B							Comments
SEL6122702-BH15'	12/27/02	840	1	✓			137985	✓	✓							
SEL6122702-BH115'	12/27/02	8:54	1	✓			137986	✓	✓							
SEL6122702-BH125'	12/27/02	910	1	✓			137987	✓	✓							
SEL6122702-BH135'	12/27/02	940	1	✓			137988	✓	✓							
SEL6122702-BH145'	12/27/02	10:00	1	✓			137989	✓	✓							
SEL6122702-BH155'	12/27/02	10:15	1	✓			137990	✓	✓							
SEL6123002-BH25'	12/30/02	8:30	1	✓			137991	✓	✓							
SEL6123002-BH215'	12/30/02	9:00	1	✓			137992	✓	✓							
SEL6123002-BH225'	12/30/02	9:30	1	✓			137993	✓	✓							
SEL6123002-BH230'	12/30/02	10:00	1	✓			137994	✓	✓							

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal r limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Poll ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 5.0 °C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Cody Mobley	EPI	12/30/02		Melanie Humphrey	ASI	1/3/03	0900

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

Send Report To:
Company Name EPI
Address PO Box 1558
City Eunice State NM Zip 88231
ATTN: Pat McLelland
Phone (505)394-3481 Fax (505)394-2601

Bill to (if different):
Company Name Eott
Address
City Midland State TX Zip
ATTN: Frank Hernandez
Phone Fax

4221 Freidrich Lane, Sui. 0, Austin, TX
(512) 444-5896

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2002-10312 Sampler: Cody Miller
Lovington Deep 6"

Analyses Requested (1)
Please attach explanatory information as r

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B	Comments
SEL6123002BH285'	12-30-02	10:30	1	✓			137995	✓	✓	
SEL6123002BH240'	12/30/02	11:00	1	✓			137996	✓	✓	
SEL6123002BH250'	12/30/02	11:15	1	✓			137997	✓	✓	
SEL6123002BH35'	12/30/02	130	1	✓			137998	✓	✓	
SEL6123002BH315'	12/30/02	200	1	✓			137999	✓	✓	
SEL6123002BH325'	12/30/02	230	1	✓			138000	✓	✓	
SEL6123002BH335'	12/30/02	300	1	✓			138001	✓	✓	
~~SEL6123002BH345'~~	12/30/02	~~330~~	1	✓				✓	✓	
~~SEL6123002BH350'~~	12/30/02	400	1	✓				✓	✓	
			1	✓				✓	✓	

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal r limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Poll ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 5.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Tim
Cody Miller	EPI	12/30/02		Melanie Humphrey	ASI	1/3/03	090

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

AnalySys Inc
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 140347 **Report Date:** 03/25/03
Project ID: 2002-10312
Sample Name: SELD6030703WSW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:35

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	J	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/15/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/03	8260b	---	5.2	97	95.9	100.4
Ethylbenzene	<20	µg/Kg	20	<20	03/15/03	8260b	J	1.9	100.6	100.1	101.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/03	8260b	J	4.3	95.3	91.9	95.7
o-Xylene	<20	µg/Kg	20	<20	03/15/03	8260b	---	4.1	101.1	98.3	101.2
Toluene	24.1	µg/Kg	20	<20	03/15/03	8260b	---	0.4	86.2	89.6	93.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 03/25/03

Exceptions Report:

Report #/Lab ID#: 138005 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 30'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138006 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 40'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/31/2002 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123102BH4 40'	**Report#/Lab ID#:** 138006 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	80.2	50-150	---
p-Terphenyl	8015 mod.	77.7	50-150	---
1,2-Dichloroethane-d4	8260b	87.5	65-115	---
Toluene-d8	8260b	95.9	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 138006 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 40'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138007 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 50'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/31/2002 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123102BH4 50'	**Report#/Lab ID#:** 138007 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	92.2	50-150	---
p-Terphenyl	8015 mod.	94.6	50-150	---
1,2-Dichloroethane-d4	8260b	86.8	65-115	---
Toluene-d8	8260b	89.2	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 138007 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 50'

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138008 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 55'
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/31/2002 **Time:** 11:30

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	7	82.6	97.1	94.9
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.1	94.7	105.4	106.8
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4	93.6	105.4	106.3
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.7	93.6	106.7	105.5
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	5.4	89.9	103.5	100.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/13/03

ANALYSYS INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 Lovington Deep 6" **Sample Name:** SEL6123102BH4 55'	**Report#/Lab ID#:** 138008 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	94.1	50-150	---
p-Terphenyl	8015 mod.	99.4	50-150	---
1,2-Dichloroethane-d4	8260b	94	65-115	---
Toluene-d8	8260b	95.6	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/13/03

Exceptions Report:

Report #/Lab ID#: 138008 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 55'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Toluene	J	See J-flag discussion above.

Notes:

Page#: 3 **Report #/Lab ID#:** 138008 **Report Date:** 1/13/200

Send Report To:

Company Name: ENVIRONMENTAL PLUS INC.
Address: PO BOX 1658
City: EUNICE State: NM Zip: 88231
ATTN: PAT MCBRYANT
Phone: 9055643281 Fax: 9055392601

Bill to (if different):

Company Name: EOG
Address:
City: MIDLAND State: TX Zip:
ATTN: FRANK HERNANDEZ
Phone: Fax:

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2002-10312 LOVINGTON DEEP 6" Sampler: Cody Miller

eottenergy
4221 Freidrich Lane, Suite 300, Austin, TX 7
(512) 444-5896

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B							Comments
SEL6123102 BH4 SUR	12/31/02	830	1	✓			138002	✓	✓							
SEL6123102 BH4 10'	12/31/02	900	1	✓			138003	✓	✓							
SEL6123102 BH4 20'	12/31/02	930	1	✓			138004	✓	✓							
SEL6123102 BH4 30'	12/31/02	1000	1	✓			138005	✓	✓							
SEL6123102 BH4 40'	12/31/02	1030	1	✓			138006	✓	✓							
SEL6123102 BH4 50'	12/31/02	1100	1	✓			138007	✓	✓							
SEL6123102 BH4 55'	12/31/02	1130	1	✓			138008	✓	✓							

Analyses Requested (1)
Please attach explanatory information as re

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal re limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Polli ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 5.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Tim
Cody Miller	EPI	12/31/02		Melonie Humphrey	ASI	1/3/03	090

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138002 **Report Date:** 01/13/03
Project ID: 2002-10312 Lovington Deep 6"
Sample Name: SEL6123102BH4 SUR
Sample Matrix: soil
Date Received: 01/03/2003 **Time:** 09:00
Date Sampled: 12/31/2002 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	7.1	79.9	103.1	71.5
TPH by GC (as diesel-ext)	---	---	---	---	01/08/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/09/03	8015 mod.	---	8.7	86.7	90.2	79
Volatile organics-8260b/BTEX	---		---		01/07/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	6.5	98	81	94.1
Ethylbenzene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.1	117.9	117.9	116.6
m,p-Xylenes	<20	µg/Kg	20	<20	01/07/03	8260b	---	4.2	109.1	108.6	106
o-Xylene	<20	µg/Kg	20	<20	01/07/03	8260b	---	3.6	116.5	115	113.6
Toluene	<20	µg/Kg	20	<20	01/07/03	8260b	J	7.2	102.5	84.5	97.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/13/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH5SUR	**Report#/Lab ID#:** 138119 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	71.3	50-150	---
p-Terphenyl	8015 mod.	72.5	50-150	---
1,2-Dichloroethane-d4	8260b	92	65-115	---
Toluene-d8	8260b	101	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138120 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5 10'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH5 10'	**Report#/Lab ID#:** 138120 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	72.5	50-150	---
p-Terphenyl	8015 mod.	73	50-150	---
1,2-Dichloroethane-d4	8260b	96.9	65-115	---
Toluene-d8	8260b	96.5	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138121 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5 20'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 09:15

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH5 20'	**Report#/Lab ID#:** 138121 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	76.3	50-150	---
p-Terphenyl	8015 mod.	80.7	50-150	---
1,2-Dichloroethane-d4	8260b	92.2	65-115	---
Toluene-d8	8260b	90.9	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138122 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5 30'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 09:30

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-20312 Lovington Deep 6"	**Report#/Lab ID#:** 138122
Attn: Pat McCasland	**Sample Name:** SEL61203BH5 30'	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	72.2	50-150	---
p-Terphenyl	8015 mod.	69.5	50-150	---
1,2-Dichloroethane-d4	8260b	92.2	65-115	---
Toluene-d8	8260b	98.8	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

ANALYSYS INC
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138123 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5 40'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH5 40'	**Report#/Lab ID#:** 138123 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	63.6	50-150	---
p-Terphenyl	8015 mod.	61.1	50-150	---
1,2-Dichloroethane-d4	8260b	87	65-115	---
Toluene-d8	8260b	93.7	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

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Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138124 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5 50'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/20/03

ANALYSIS Inc.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH5 50'	**Report#/Lab ID#:** 138124 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	64.4	50-150	---
p-Terphenyl	8015 mod.	64	50-150	---
1,2-Dichloroethane-d4	8260b	97.6	65-115	---
Toluene-d8	8260b	98.2	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138125 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5 55'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH5 55'	**Report#/Lab ID#:** 138125 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	62.1	50-150	---
p-Terphenyl	8015 mod.	60.2	50-150	---
1,2-Dichloroethane-d4	8260b	94.5	65-115	---
Toluene-d8	8260b	96.2	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138126 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6SUR
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 01:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6SUR	**Report#/Lab ID#:** 138126 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	60.9	50-150	---
p-Terphenyl	8015 mod.	58.2	50-150	---
1,2-Dichloroethane-d4	8260b	82.1	65-115	---
Toluene-d8	8260b	88.8	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138127 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6 10'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 01:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6 10'	**Report#/Lab ID#:** 138127 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	71.3	50-150	---
p-Terphenyl	8015 mod.	54.5	50-150	---
1,2-Dichloroethane-d4	8260b	90.1	65-115	---
Toluene-d8	8260b	100	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138128 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6 20'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 01:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	4.8	70.1	85.5	70.3
TPH by GC (as diesel-ext)	---	---	---	---	01/13/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	6.9	85.5	86.9	90.1
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

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Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6 20'	**Report#/Lab ID#:** 138128 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	63.6	50-150	---
p-Terphenyl	8015 mod.	61.7	50-150	---
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	102	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138129 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6 30'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 01:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	4.8	70.1	85.5	70.3
TPH by GC (as diesel-ext)	---	---	---	---	01/13/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	6.9	85.5	86.9	90.1
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6 30'	**Report#/Lab ID#:** 138129 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	71.6	50-150	---
p-Terphenyl	8015 mod.	72.8	50-150	---
1,2-Dichloroethane-d4	8260b	93	65-115	---
Toluene-d8	8260b	94.8	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138130 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6 40'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 02:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	4.8	70.1	85.5	70.3
TPH by GC (as diesel-ext)	---	---	---	---	01/13/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	6.9	85.5	86.9	90.1
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6 40'	**Report#/Lab ID#:** 138130 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	58.2	50-150	---
p-Terphenyl	8015 mod.	52.5	50-150	---
1,2-Dichloroethane-d4	8260b	99.6	65-115	---
Toluene-d8	8260b	104	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138131 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6 50'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 02:30

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/14/03	8015 mod.	---	4.8	70.1	85.5	70.3
TPH by GC (as diesel-ext)	---	---	---	---	01/13/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/14/03	8015 mod.	---	6.9	85.5	86.9	90.1
Volatile organics-8260b/BTEX	---		---		01/14/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/14/03	8260b	---	7.7	90.5	100.2	97.6
Ethylbenzene	<20	µg/Kg	20	<20	01/14/03	8260b	---	2	109.1	111.4	116
m,p-Xylenes	<20	µg/Kg	20	<20	01/14/03	8260b	---	0.3	101	103.1	105.1
o-Xylene	<20	µg/Kg	20	<20	01/14/03	8260b	---	1.1	106.8	110.1	112.7
Toluene	<20	µg/Kg	20	<20	01/14/03	8260b	---	7	93.9	103.9	100.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6 50'	**Report#/Lab ID#:** 138131 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.7	50-150	---
p-Terphenyl	8015 mod.	50.7	50-150	---
1,2-Dichloroethane-d4	8260b	103	65-115	---
Toluene-d8	8260b	104	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138132 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH6 55'
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 03:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	4.8	70.1	85.5	70.3
TPH by GC (as diesel-ext)	---	---	---	---	01/13/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/13/03	8015 mod.	---	6.9	85.5	86.9	90.1
Volatile organics-8260b/BTEX	---		---		01/14/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/14/03	8260b	---	7.7	90.5	100.2	97.6
Ethylbenzene	<20	µg/Kg	20	<20	01/14/03	8260b	---	2	109.1	111.4	116
m,p-Xylenes	<20	µg/Kg	20	<20	01/14/03	8260b	---	0.3	101	103.1	105.1
o-Xylene	<20	µg/Kg	20	<20	01/14/03	8260b	---	1.1	106.8	110.1	112.7
Toluene	<20	µg/Kg	20	<20	01/14/03	8260b	---	7	93.9	103.9	100.6

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-20312 Lovington Deep 6" **Sample Name:** SEL61203BH6 55'	**Report#/Lab ID#:** 138132 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	57.9	50-150	---
p-Terphenyl	8015 mod.	55.3	50-150	---
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	103	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 01/20/03

Company Name: Environmental Plus Inc
Address: PO Box 1558
City: Eunice State: NM Zip: 88231
ATTN: Pat McElvaine
Phone _____ Fax _____

Bill to (if different):
Company Name: Eott Energy
Address _____
City _____ State ___ Zip _____
ATTN: Frank Hernandez
Phone _____ Fax _____

inc.
4221 Freidrich Lane, Suite 190, Austin, TX 787
(512) 444-5896
512-385-7411

Rush Status (must be confirmed with lab mgr.): _____
Project Name/PO#: 2002-10312 Sampler: Cody Mills
Lovington Deep 6"

Analyses Requested (1)
Please attach explanatory information as requi

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B							Comments
SEL61203BH5SUR	1/2/03	830	1	✓			138119	✓	✓							
SEL61203BH510'	1/2/03	900	1	✓			138120	✗	✗							
SEL61203BH520'	1/2/03	915	1	✓			138121	✗	✗							
SEL61203BH530'	1/2/03	930	1	✓			138122	✗	✗							
SEL61203BH540'	1/2/03	1000	1	✓			138123	✗	✗							
SEL61203BH550'	1/2/03	1130	1	✓			138124	✗	✗							
SEL61203BH555'	1/2/03	1100	1	✓			138125	✗	✗							
SEL61203BH6SUR	1/2/03	1:00	1	✓			138126	✗	✗							
SEL61203BH610'	1/2/03	1:15	1	✓			138127	✗	✗							
SEL61203BH620'	1/2/03	1:30	1	✓			138128	✗	✗							

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporti limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 4.2°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Cody Mills	EPI	1/2/03		Melanie Humphrey	ASI	1/9/03	12:00

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

Company Name ENVIRONMENTAL PVS
Address PO BOX 1558
City EUNICE State NM Zip 88231
ATTN: Pat McCasland
Phone _____ Fax _____

Bill to (if different):
Company Name EOTT ENERGY
Address _____
City _____ State ___ Zip _____
ATTN: Frank HERNANDEZ
Phone _____ Fax _____

inc.
4221 Freidrich Lane, Suite 190, Austin, TX 787
(512) 444-5896
512 384 7911

Rush Status (must be confirmed with lab mgr.): _____
Project Name/PO#: 2002-10312 LOVINGTON Deep 6" Sampler: _____

Analyses Requested (1)
Please attach explanatory information as requi

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TPH 8015M	BTEX 8021B	Comments
SEL1203BH630'	1/2/03	1:45	1	✓			138129			
SEL1203BH640'	1/2/03	200	1	✓			138130			
SEL1203BH650'	1/2/03	230	1	✓			138131			
SEL1203BH655'	1/2/03	300	1	✓			138132			

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporti limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 4.2°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Amy Miller	EPI	1/2/02		Melanie Humphrey	ASI	1/9/03	12:00

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 138119 **Report Date:** 01/20/03
Project ID: 2002-20312 Lovington Deep 6"
Sample Name: SEL61203BH5SUR
Sample Matrix: soil
Date Received: 01/09/2003 **Time:** 12:00
Date Sampled: 01/02/2003 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	3.6	75.4	99	73.6
TPH by GC (as diesel-ext)	---	---	---	---	01/09/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	01/10/03	8015 mod.	---	0.3	82.1	86.3	79.7
Volatile organics-8260b/BTEX	---		---		01/10/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	12.2	85.6	99.7	93.3
Ethylbenzene	<20	µg/Kg	20	<20	01/10/03	8260b	---	4.4	94.8	100.7	102.5
m,p-Xylenes	<20	µg/Kg	20	<20	01/10/03	8260b	---	10.4	88.9	98.9	100.4
o-Xylene	<20	µg/Kg	20	<20	01/10/03	8260b	---	9.1	95	102.2	101.7
Toluene	<20	µg/Kg	20	<20	01/10/03	8260b	---	6.1	94.1	103.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 01/20/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 **Sample Name:** SELD6030703WSW	**Report#/Lab ID#:** 140347 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	65.8	50-150	---
1,2-Dichloroethane-d4	8260b	106	65-115	---
Toluene-d8	8260b	119	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 03/25/03

Exceptions Report:

Report #/Lab ID#: 140347 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312
Sample Name: SELD6030703WSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel)	J	See J-flag discussion above.
Ethylbenzene	J	See J-flag discussion above.
m,p-Xylenes	J	See J-flag discussion above.

Notes: _____

_____

_____

Page#: 3 **Report #/Lab ID#:** 140347 **Report Date:** 3/25/200

ANALYSYS INC

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 140348 **Report Date:** 03/25/03
Project ID: 2002-10312
Sample Name: SELD6030703ESW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/13/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	117.5	94	113.5
Ethylbenzene	<20	µg/Kg	20	<20	03/13/03	8260b	J	0.8	116.5	113	126.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/03	8260b	---	0.4	119.5	118.6	127.2
o-Xylene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	109.8	116.6	128.5
Toluene	<20	µg/Kg	20	<20	03/13/03	8260b	---	8.9	125.1	103.3	118.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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Page#: 1 **Report Date:** 03/25/03

ANALYSIS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 **Sample Name:** SELD6030703ESW	**Report#/Lab ID#:** 140348 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	77	50-150	---
p-Terphenyl	8015 mod.	72.9	50-150	---
1,2-Dichloroethane-d4	8260b	103	65-115	---
Toluene-d8	8260b	111	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 03/25/03

Exceptions Report:

Report #/Lab ID#: 140348 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312
Sample Name: SELD6030703ESW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.

Notes:

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 140349 **Report Date:** 03/25/03
Project ID: 2002-10312
Sample Name: SELD6030703NSW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:45

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA**[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/13/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	117.5	94	113.5
Ethylbenzene	<20	µg/Kg	20	<20	03/13/03	8260b	J	0.8	116.5	113	126.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/03	8260b	---	0.4	119.5	118.6	127.2
o-Xylene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	109.8	116.6	128.5
Toluene	<20	µg/Kg	20	<20	03/13/03	8260b	---	8.9	125.1	103.3	118.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

Page#: 1 **Report Date:** 03/25/03

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2002-10312 **Sample Name:** SELD6030703NSW	**Report#/Lab ID#:** 140349 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	90.4	50-150	---
p-Terphenyl	8015 mod.	76.4	50-150	---
1,2-Dichloroethane-d4	8260b	109	65-115	---
Toluene-d8	8260b	117	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 03/25/03

Exceptions Report:

Report #/Lab ID#: 140349 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312
Sample Name: SELD6030703NSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.

Notes:

Page#: 3 **Report #/Lab ID#:** 140349 **Report Date:** 3/25/200

ANALYSYS INC
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 140350 **Report Date:** 03/26/03
Project ID: 2002-10312
Sample Name: SELD6030703SSW
Sample Matrix: soil
Date Received: 03/12/2003 **Time:** 09:00
Date Sampled: 03/07/2003 **Time:** 11:50

REPORT OF ANALYSIS **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TPH by GC (as diesel)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	4	122.4	121.2	107.6
TPH by GC (as diesel-ext)	---	---	---	---	03/21/03	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/21/03	8015 mod.	---	8.9	91.3	97.6	84.3
Volatile organics-8260b/BTEX	---		---		03/13/03	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	117.5	94	113.5
Ethylbenzene	<20	µg/Kg	20	<20	03/13/03	8260b	J	0.8	116.5	113	126.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/03	8260b	---	0.4	119.5	118.6	127.2
o-Xylene	<20	µg/Kg	20	<20	03/13/03	8260b	---	7.7	109.8	116.6	128.5
Toluene	<20	µg/Kg	20	<20	03/13/03	8260b	---	8.9	125.1	103.3	118.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,
Richard Laster
Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC.
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10312	**Report#/Lab ID#:** 140350
Attn: Pat McCasland	**Sample Name:** SELD6030703SSW	**Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-chlorooctane	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	101	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	109	50-120	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Page#: 2 **Report Date:** 03/26/03

Exceptions Report:

Report #/Lab ID#: 140350 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Pat McCasland
Project ID: 2002-10312
Sample Name: SELD6030703SSW

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

Report To:
Company Name ENVIRONMENTAL PLUS INC
Address P.O. Box 1558
City EUNICE State NM Zip 88231
ATTN: Pat McCasland
Phone 505 394-3481 Fax 505 394-2601

Bill to (if different):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

ANALYSTS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 7874
(512) 444-5896

Turnish Status (must be confirmed with lab mgr.):
Project Name/PO#: 2002-10312 Sampler: Conrad Falcon

Analyses Requested (1)
Please attach explanatory information as requir

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	TPH 8015 Mod. GRO							Comments
SELD6030703WSW	3-7-03	11:35	1	✓			140347	X	X							
ELD6030703 ESW	3-7-03	11:40	1	✓			140348	X	X							
ELD6030703 NSW	3-7-03	11:45	1	✓			140349	X	X							
ELD6030703 SSW	3-7-03	11:50	1	✓			140350	X	X							

Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporti
s (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutant
s HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T=5.2°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Conrad Falcon	EPI	3-10-03	0700	Melanie Humphrey	ASI	3/12/03	0900

Rendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Project:	Lovington 6" Deep Gathering
PO#:	2002-10312
Order#:	G0306193
Report Date:	04/11/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702
687-2713

Order#: G0306193
Project: 2002-10312
Project Name: Lovington 6" Deep Gathering
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306193-01	SELD64803CSP	SOIL	4/8/03 9:00	4/8/03 13:45	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					
0306193-02	SELD64803SSP	SOIL	4/8/03 9:15	4/8/03 13:45	4 oz glass	Ice
	Lab Testing:	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306193
Project: 2002-10312
Project Name: Lovington 6" Deep Gathering
Location: None Given

Lab ID: 0306193-01
Sample ID: SELD64803CSP

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/9/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	180	10.0
DRO, >C12-C35	1,090	10.0
TOTAL, C6-C35	1,270	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	102%	70	130
1-Chlorooctadecane	111%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005183-02		4/10/03 10:35	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.117	0.025
Ethylbenzene	0.283	0.025
p/m-Xylene	1.55	0.025
o-Xylene	0.909	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	99%	80	120
Bromofluorobenzene	113%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: G0306193
Project: 2002-10312
Project Name: Lovington 6" Deep Gathering
Location: None Given

Lab ID: 0306193-02
Sample ID: SELD64803SSP

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/9/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	495	10.0
DRO, >C12-C35	3,070	10.0
TOTAL, C6-C35	3,565	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	122%	70	130
1-Chlorooctadecane	138%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005183-02		4/10/03 10:55	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.815	0.025
Ethylbenzene	1.14	0.025
p/m-Xylene	5.89	0.025
o-Xylene	3.10	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	157%	80	120
Bromofluorobenzene	117%	80	120

Approval: Raland K Tuttle 4-12-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306193

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005165-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005165-03		952	803	84.3%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005165-04		952	832	87.4%	3.5%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005165-05		1000	850	85.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306193

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005183-02			< 0.025		
Toluene-mg/kg	0005183-02			< 0.025		
Ethylbenzene-mg/kg	0005183-02			< 0.025		
p/m-Xylene-mg/kg	0005183-02			< 0.025		
o-Xylene-mg/kg	0005183-02			< 0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306172-07	0.045	2.5	3.02	119.%	
Toluene-mg/kg	0306172-07	0.432	2.5	3.12	107.5%	
Ethylbenzene-mg/kg	0306172-07	0.118	2.5	3.22	124.1%	
p/m-Xylene-mg/kg	0306172-07	0.522	5	6.35	116.6%	
o-Xylene-mg/kg	0306172-07	0.545	2.5	3.61	122.6%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306172-07	0.045	2.5	2.65	104.2%	13.1%
Toluene-mg/kg	0306172-07	0.432	2.5	2.82	95.5%	10.1%
Ethylbenzene-mg/kg	0306172-07	0.118	2.5	3.03	116.5%	6.1%
p/m-Xylene-mg/kg	0306172-07	0.522	5	6.08	111.2%	4.3%
o-Xylene-mg/kg	0306172-07	0.545	2.5	3.52	119.%	2.5%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0005183-05		0.1	0.104	104.%	
Toluene-mg/kg	0005183-05		0.1	0.104	104.%	
Ethylbenzene-mg/kg	0005183-05		0.1	0.103	103.%	
p/m-Xylene-mg/kg	0005183-05		0.2	0.212	106.%	
o-Xylene-mg/kg	0005183-05		0.1	0.100	100.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

EOTT ENERGY PIPELINE
P.O. BOX 1660
Midland, TX 79702

Order#: **G0306193**

Project: **Lovington 6" Deep Gathering**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SELD64803CSP	0306193-01	SOIL	04/08/2003	04/08/2003
SELD64803SSP	0306193-02	SOIL	04/08/2003	04/08/2003

Surrogate recoveries on 8015 TPH and 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (G0306193-02)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Roland K Tuttle Date: 4-12-03

Environmental Lab of Texas I, Ltd.

Page 1

Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800
Odessa Texas 79763 Fax: 915-563-1713

Project Manager: FRANK HERNANDEZ
Company Name: EOTT ENERGY PIPELINE
Company Address: 5805 E. HIGHWAY 80
City/State/Zip: MIDLAND TX 79701
Telephone No: 713-253-7006
Sampler Signature: C Mills

Project Name: Lovington 6" Deep Gathering
Project #: 2002-10312
Project Loc:
PO#:

0306193

		Date Sampled	Time Sampled	No. of Containers	Preservative: ICE	HNO	HCI	NaOH	HSO	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (Specify)	Analyze For: TDS/CL/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	BTEX 8021B/5030	Reactivity	Corrosivity	Ignitability				RUSH TAT	Standard TAT
01	SELD64803CSP	04/08/2003	9:00	1	X									X					X				X								
02	SELD64803SSP	04/08/2003	9:15	1	X									X					X				X								

Special Instructions
FAX RESULTS TO PAT MCCASLAND ASAP

Sample Containers Intact Y N
Temperature Upon Request
Laboratory Comments: 2.0°C

Relinquished:	Date	Time	Received by:	Date	Time
C Mills	4/8/03	1345			
Relinquished:	Date	Time	Received by:	Date	Time
			Jeanne McMurrey	4-8-3	1345

LOVINGTON DEEP 6" #2002-10312

eottenergy

ATTACHMENT IV: VADSAT RISK ASSESSMENT INFORMATION

VADSAT Version 3.0
A Monte Carlo Model for Assessing the Effects of Soil Contamination on Groundwater Quality

Developed by: Environmental Systems and Technologies Inc.
Blacksburg, Virginia
Tel: 703-552-0685, Fax: 703-951-5307

for the
American Petroleum Institute

1995

PROJECT TITLE:EOTT Lovington Deep 6"

SOURCE AND CHEMICAL DATA ****
FKSWM, MEAN WASTE ZONE SAT. CONDUC. (m/day) = 0.00000
SDFKSW, STD.DEV. OF WASTE ZONE SAT. CONDUC. = 0.00000

DEPTHM, MEAN THICKNESS OF WASTE ZONE (m) = 15.24000
DEPSTD, STD.DEV. OF THICKNESS OF WASTE ZONE = 0.00000

AREAM, MEAN WASTE ZONE AREA (m^2) = 744.90002
STDA, STD.DEV. OF WASTE ZONE AREA = 0.00000

RLWM, MEAN L/W RATIO (-) = 1.00000
STDRLW, STD.DEV. OF L/W RATIO = 0.00000

CVRTHM, MEAN VALUE OF COVER THICKNESS (m) = 3.04800
CVRTHS, STD.DEV. OF COVER THICKNESS = 0.00000

KOCM, MEAN ORG. CARBON PARTITION COEF (cm^3/g)= 83.20000
STDKOC, STD.DEV. OF ORG.CARBON PARTITION COEF= 0.00000

FMOLM, MEAN INIT.VOL.FRAC. OF CONTAMINANT(-) = 0.03067
FMOLSTD, STD.DEV. OF VOL.FRAC. OF CONTAMINANT= 0.00000

CMFM, MASS OF CONTAMINANT PER MASS OF WASTE(mg/kg) = 257.00000
CMFSD, STD.DEV. OF MASS CONTAMINANT PER MASS WASTE = 0.00000

HCCONM, HYDCARBON MASS FRAC. IN WASTE (mg/kg)= 8380.00000
HCCONS, STD OF HYDCARBON MASS FRAC. IN WASTE = 0.00000

CHEMICAL SPECIES: **Benzene**

MOLW, MOLECULAR WT. OF CONTAMINANT (g/mole) = 78.10000

AVERMW, AVG. MOL. WT. OF OILY WASTE (g/mole) = 100.00000

RHO, DENSITY OF CONTAMINANT (g/cm^3) = 0.87600

RHOG, AVERAGE DENSITY OF HYDROCARBON (g/cm^3) = 0.90000

SOL, AQUEOUS SOLUB. OF CONTAMINANT (g/m^3) = 1790.00000

HENRYC, HENRY'S CONSTANT (-) = 0.23000

DIFFA, DIFFUSION COEF. IN FREE AIR (m^2/day) = 0.77000

HYDROGEOLOGICAL PROPERTIES

** UNSATURATED ZONE INPUT PARAMETERS **

GAMMAM, MEAN UNSAT ZONE DECAY COEF (1/day) = 0.00010
STDGAM, STD.DEV. OF UNSAT ZONE DECAY COEF = 0.00000

UNFOCM, MEAN UNSAT ZONE ORGANIC CARBON FRACTION (-) = 0.00000
UNFOCS, STD.DEV. OF UNSAT ZONE ORGANIC CARBON FRAC. = 0.00000

FKSW, MEAN SAT. CONDUCTIVITY (m/day) = 0.02900
STDFKS, STD.DEV. OF SAT. CONDUCTIVITY = 0.000

DISTM, MEAN DEPTH TO GROUNDWATER (m) = 1.52400
STDDST, STD.DEV. OF DEPTH TO GROUNDWATER = 0.00000

UNPORM, MEAN VADOSE ZONE POROSITY (-) = 0.38000
SUNPOR, STD.DEV. OF VADOSE ZONE POROSITY = 0.00000

PARNM, MEAN VALUE OF VG PARAMETER N (-) = 1.23000
SDPARN, STD.DEV. OF VG PARAMETER N = 0.00000

RESWCM, MEAN RESIDUAL WATER CONTENT (-) = 0.01110
RESWCS, STD.DEV. OF RESIDUAL WATER CONTENT = 0.00000

ALFINM = 0, UNSAT DISPERSIVITY CALCULATED INTERNALLY

** SATURATED ZONE INPUT PARAMETERS **

LAMBW, MEAN SAT. ZONE DECAY COEFF. (1/day) = 0.00010
SLAMB, STD.DEV. OF SAT. ZONE DECAY COEFF. = 0.00000

PORM, MEAN SAT. ZONE POROSITY (-) = 0.20000
STDPOR, STD.DEV. OF SAT. ZONE POROSITY = 0.00000

FOCM, MEAN SAT. ZONE ORG. CARBON FRAC. (-) = 0.00000
STDFOC, STD.DEV. SAT. ZONE ORG. CARBON FRAC.= 0.00000

ALRLTM, MEAN DISPERS, RATIO LONG/TRANSV. (-) = 3.00000
SALRLT, STD.DEV. OF DISP. RATIO LONG/TRANSV. = 0.00000

ALRTVM, MEAN DISPERS. RATIO TRANSV/VERT. (-) = 87.00000
SALRTV, STD.DEV. OF DISP. RATIO TRANSV/VERT. = 0.00000

CONDS, SAT. HYDRAULIC COND. (m/day) = 1.03000
SCONDS, STD.DEV. OF SAT HYDRAULIC COND. = 0.00000

GRADS, HYDRAULIC GRADIENT (m/m) = 0.02700
SGRADS, STD.DEV. OF HYDRAULIC GRADIENT = 0.00000

HMEAN, MEAN AQUIFER THICKNESS (m) = 15.24000

STDH, STD.DEV. OF AQUIFER THICKNESS = 0.00000

QINM, MEAN INFILTRATION RATE (m/day) = 0.00011
QINSTD, STD.DEV. OF INFILTRATION RATE = 0.00000